



engineering and constructing a better tomorrow

June 24, 2022

Division of Environmental Remediation

Remedial Bureau E, 12th Floor

New York State Department of

Environmental Conservation

625 Broadway

Albany, New York 12233-7016

Attention: Mr. Matthew Dunham, Project Manager

Subject: **Data Gap Investigation and Pilot Study Report**
Ace Cleaners Site; Site Number 828133
MACTEC Engineering and Geology, P.C. Project No. 3616206125

Dear Mr. Dunham:

MACTEC Engineering and Geology, P.C., (MACTEC), under contract to the New York State Department of Environmental Conservation (NYSDEC) (Work Assignment No. D007619-45) (NYSDEC, 2020) is pleased to present this letter report documenting the pilot study and data gap investigation conducted at the Ace Cleaners site (Site), NYSDEC Site Number 828133 (Figure 1).

OBJECTIVES

A Remedial Investigation (RI) was conducted at the Site in 2019 and a draft RI and Feasibility Study (FS) report was completed in January 2021 (MACTEC, 2021a). The primary contaminants of concern (COCs) at the site were identified as the volatile organic compound (VOC) tetrachloroethene (PCE) and its breakdown products trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride. This contamination was identified in soil, groundwater, and soil vapor. The draft FS identified and evaluated several alternatives, including excavation of the soil source area at the Site,

with possible addition of bioamendments (consisting of carbon and hydrogen source [e.g., emulsified vegetable oil], nutrients such as vitamin B₁₂, and dehalogenating microbes) to enhance the naturally occurring microbes that can degrade PCE and its daughter products to non-harmful compounds by reductive dechlorination.

Prior to choosing a preferred remedial action, it was determined that a pilot study should be conducted to evaluate the viability of enhanced biological degradation to remediate the contamination outside/hydraulically downgradient of the soil source area. Therefore, a pilot study and data gap investigation was conducted.

The pilot study had the following objectives:

- 1) Determine if amendment can be injected into the saturated overburden.
- 2) Evaluate the potential area of influence of the injections.
- 3) Evaluate the effects of adding bioamendment on the microbial population and potentially on the contaminant plume.

In addition, sampling was also conducted to evaluate several data gaps, including:

- 1) Soil concentrations to the northeast of the previously sampled area.
- 2) Bedrock groundwater concentrations immediately downgradient of the source area.
- 3) Current groundwater concentrations.

FIELD OPERATIONS

Field work conducted for the pilot study and data gap investigation as per the Field Activities Plan (FAP)(MACTEC, 2021b) consisted of:

- Conducted an asbestos survey of the Site building in preparation of future building demolition.
- Installation of one bedrock well (MW-14D) northeast of the source area in the hydraulically downgradient direction to evaluate and monitor bedrock groundwater.
- Installation of two overburden microwells (MW-113 and MW-114) downgradient of the source area in the vicinity of the planned bioamendment injections to monitor effects of the injections.
- Injection of bioamendment into eight temporary injection points to enhance degradation of the groundwater contamination.

- One round of pre-injection groundwater sampling from three monitoring wells to evaluate baseline VOC and natural attenuation conditions.
- Three rounds of post injection monitoring for VOCs and natural attenuation parameters from four monitoring wells to evaluate effects of injections.
- One round of water samples for VOC analysis from existing wells to evaluate current groundwater concentrations.

Field work was conducted in level D personal protective equipment.

Analysis of groundwater samples for VOCs and monitored natural attenuation (MNA) parameters was conducted by ALS Laboratories of Rochester, NY. Analysis of groundwater samples for microbes was conducted by Microbac Laboratories of Oak Ridge, Tennessee. Sample locations are presented on Figures 2 and 3. Field Data Records (FDRs) are presented in Attachment 1.

Asbestos Building Survey. In anticipation of future building demolition work, a pre-demolition asbestos survey was conducted by Lozier Environmental Consulting, Inc. Asbestos containing materials in the form of wall tile/tile mastic, roofing tar and tar paper/felt paper were identified. The asbestos report is included in Attachment 2.

Bedrock Well Installation. One bedrock well, MW-14D, was installed in August 2021 to the northeast of the former Ace Cleaner building and 5 feet (ft) east of overburden well GW-14. Soil was sampled at 14 ft below ground surface (bgs) (just above top of bedrock) and bedrock was sampled at 15 and 19 ft bgs for analysis for VOCs to evaluate sorbed contaminant mass. The bedrock was cored to 23 ft bgs, and a 2-inch diameter well set with a 5-ft screen from 17 ft to 22 ft bgs that was sealed with bentonite across the overburden/bedrock interface to ensure the well was capturing bedrock groundwater.

Microwell Installation and Sampling. Two 1-inch diameter microwells, MW 113 and MW 114 were installed in the overburden in August 2021 using direct push technologies to monitor the progress of the pilot injection. Soil was collected in four-foot sleeves and scanned with a photoionization detector; laboratory samples were collected from 6 and 9 ft bgs at MW 113 and from 9 ft bgs at MW 114 for analysis of VOCs. Wells were installed to the top of bedrock (approximately

13 ft bgs). Upon completion of installation, groundwater from MW-113 and MW-114, as well as GW-14 were sampled for VOCs, dechlorinating microbes and MNA parameters outlined in the Field Activities Plan (MACTEC, 2021b).

Pilot Injections. Once the microwells were installed and sampled, pilot injection were completed at eight temporary injection points (IP-1 to IP-8 shown on Figure 2). The points were placed in two rows, with rows spaced approximately 10 ft apart at the north end and widening to approximately 17 feet apart on the south end. The injection points within each row were placed between 15 and 20 ft apart (Figure 2). Actual location varied slightly from planned locations based on surface obstructions (trees) and utilities (underground water and overhead electric). Injections were completed by advancing direct push rods until refusal (13-14 ft bgs) and injecting through either 2 ft screens or disposable tip open bottomed injection rods. Each point was advanced to refusal then product was injected evenly across two intervals divided between the top of bedrock and the top of the water table at 8 ft bgs.

The bioamendment injection product from TerraSystems consisted of SRS-SD Small Droplet Emulsified Vegetable Oil (EVO) (which includes nutrients) and bioaugmentation bacterial culture. For the injections, 400-gallons of clean water was conditioned by adding 2 pounds (lbs) of sodium ascorbate as an oxygen scavenger and 7 lbs of sodium bicarbonate as a buffering agent. Water was left to deoxygenate overnight and checked for DO and ORP the following morning. Ten-gallons of SRS-SD EVO was then mixed with 90-gallons of deoxygenated water and the 100-gallon mixture was injected evenly between two injection points (i.e., 50 gallons per point, with injections occurring in sequence). In addition, 0.312 liters of bacterial augmentation was added per injection interval for a total of 0.625 liters per point (i.e., 25 gallons of mixture EVO mixture and 0.312 liters bacterial augmentation per interval). The product was injected using a Red Lion 6RLAG trash pump at approximately 3 gallons per minute (gpm) and at a pressure less than 32 pounds per square inch per point as measured at the pump. Injection details are shown in Table 1. Each injection was chased with at least a few gallons of deoxygenated water to push the amendment into the formation and clear the injection rods.

During injections water levels were monitored in the new microwells for changes in standard groundwater parameters (specifically DO, ORP and turbidity) as well as visually for changes in color (white) from the SRS-SD.

Well Survey. The three new wells (MW-14D, MW-113, and MW-114) and the temporary injection points were surveyed by Patriot Design and Consulting of Jamestown, NY. Well elevations were tied into existing wells. The survey data is presented in Attachment 3.

Post Pilot Injection Groundwater Sampling. Approximately two months (October 2021), four months (December 2021) and eight months (April 2022) after the injections, groundwater samples were collected from wells in the vicinity of the injections (MW-113, MW-114, GW-14 and MW-14D) were sampled for VOCs, dechlorinating microbes and MNA parameters. Samples were collected using low flow sampling procedures to evaluate the effects of the injections on the groundwater chemistry and the microbial population.

Comprehensive Groundwater Sampling Round. To evaluate the current state of the VOC groundwater plume, a full round of groundwater samples was collected in April 2022, concurrent with the final post pilot injection groundwater sampling. Samples were collected using passive diffusion bags at most locations and analyzed for VOCs. A round of water levels was collected prior to sampling.

PILOT AND DATA GAP RESULTS AND OBSERVATIONS

Upon completion of the laboratory analysis by ALS Environmental, a Data Usability Summary Report (DUSR) was completed by MACTEC following DER-10 guidelines (NYSDEC, 2010). The data was found to be usable as reported; the DUSR and complete analytical results are presented in Attachment 4. The microbial data was used as reported by Microbac; microbial analysis reports are included in Attachment 5.

Soil/Bedrock Results. Prior to injecting SRS 3 soil and bedrock cores were logged and field screened at microwell locations MW-113 and MW-114 and bedrock well location MW-14D to better define the extent of soil contamination and the potential for residual bedrock contamination. Cores at both

MW-113 and MW-114 had elevated PID readings (i.e., evidence of contamination) at 9 ft bgs in a 1 to 1.5-inch layer of dark brown silty material. A sandy layer was observed across all soil cores just above bedrock/refusal. Groundwater was consistently observed at 8-ft bgs. PID readings above background were only observed below the groundwater table, indicating that contamination in this area northeast of the building is the result of contaminated groundwater, and not the result of additional surface discharges. Soil results indicated that soil does not exceed residential Soil Cleanup Objectives (SCOs) outside the area identified during the RI (MACTEC, 2021a) (or as shown on Figure 2). A sample from a bedrock fracture face at 14.8 ft bgs at MW-14D (0.8 inches into top of rock) did exceed residential standards, however, the sample was of bedrock and the soil sample collected from 13 ft bgs just above bedrock did not. This exceedance represents contaminated groundwater that can be remediated with the groundwater remedy. The sample collected from the bedrock fracture at MW-14D at 21 ft bgs did not indicate that the contamination had sorbed to the bedrock outside the shallow bedrock zone at that downgradient location. Soil and bedrock VOC sample results are presented in Table 2.

Injection Observations. Based on observations and data collected during prior investigations, it was unclear how receptive the overburden would be to fluid injections. Fifty gallons of amendment was successfully injected at each of the pilot study points and required very little pressure (trash pump running on idle was sufficient) with injection flow rates generally around 3 gpm per point. Injection amounts per time and depth interval are shown in Table 1.

MW-113 and MW-114 were monitored continuously while injecting on IPs 3, 4, 6 and 7. Groundwater parameters and water color (white) showed influence from the injection only at MW-113 while injecting at IP 3 (approximately 7.5 ft). Dissolved oxygen decreased, oxidation/reduction potential decreased, and turbidity increased. Each of these parameter changes was seen as influence resulting directly from the injection of the SRS-SD mixture. Although changes were not observed during primary injection of the 50 gallons of bioamendment per point, they were observed while chasing the injections with 38 gallons of clean water. This indicates that material is successfully entering the overburden and each injection point has a radius of influence close to 7 ft (i.e. 14 ft diameter per injection) (and potential displacement of 8% of the saturated soil pore space). Based on observations, it may be necessary to inject approximately 90 gallons of total fluids per injection

point to get the full 7.5-foot radius of influence. Data collected indicates that this should not be a technical issue.

Post Injection Monitoring Results. Groundwater samples were collected before and after injections from four wells located within and downgradient of the biological amendment injections (MW-113, MW-114, GW-14, and MW-14D) (Because it had just been installed and clean drilling water was introduced during drilling, samples were not collected from MW-14D prior to injections). Analytical results are presented in Table 3.

Groundwater from GW-14, located approximately 33 ft downgradient from injection point IP-8 and 25 ft downgradient of IP-7 appeared to show the most beneficial results from the injections with relation to the dehalococcoides (DHC) (the primary dehaloespising bacteria known to completely degrade PCE to ethene and chloride). Microbial populations are presented in gene copies per liter, which is considered the same as cells per liter. As reported by Microbial Insights, DHC concentrations of greater than or equal to 10^4 genes per milliliter is a good screening level for indicating sites that where reductive dechlorination will yield generally useful biodegradation rates (See DHC interpretation guide included in Attachment 5). Concentrations of DHC between 10^1 and 10^4 cells per milliliter indicate that complete reductive dechlorination is likely occurring, especially when vinyl chloride reductase genes are present. Specifically related to the site, the increase of the DHC concentration from baseline concentration of 7.5×10^1 cells per milliliter in August 2021 to 1.8×10^3 cells per milliliters along with a corresponding decrease of in PCE from 1,100 µg/L to 9.9 µg/L and the presence vinyl chloride reductase genes approximately four months after the injections indicates that an injection of EVO and bioaugmentation culture will stimulate the removal of contaminants of concerns in the vicinity of GW-14.

In addition, PCE, TCE, cis-1,2-DCE, and vinyl chloride all decreased in concentration over the eight months of monitoring at GW-14. It is also important to note that the concentration of Dehalogenimonas, another microorganism that participates in dehalogenation, also increased during the pilot study evaluation.

Sample results from the other wells did not show a clear indication of beneficial results, although in general the microbial population participating in the dehalogenation appeared to increase during post injection monitoring at most locations, and the concentrations of COCs decreased in MW-113 over the eight-month observation period. The monitoring also indicated that the microbial population increased at least two orders of magnitude, and that although a later decrease in population was observed, the population appeared elevated for at least the eight-month observation period. However, the population of DHC only increased to 10^1 cells per milliliter at MW-113 and MW-114, and the vinyl chloride reductase gene was not detected at MW-114. The inconsistency in results could be attributed to uneven distribution of the amendment, as well as possibly the gap in injection points near MW-113 due to utilities. It is also possible that subsurface conditions are limiting reductive dichlorination activities, although concentrations of other parameters (e.g., sulfates, nitrate, iron), appeared similar across the area evaluated.

Field readings for dissolved oxygen and oxidation-reduction potential (ORP) were less definitive. Dehaloespiring bacteria typically thrive under reducing conditions with low oxygen levels. Both oxygen levels and ORP readings fluctuated over the eight-month sampling period, with ORP readings lower in MW-113 and MW-114 prior to the injections (although no issues were reported with the field meters, some of the dissolved oxygen readings appear abnormally high).

The sharp increase in microbial populations in GW-14 approximately two months after injections also indicates that the travel time for the microbes (and therefore groundwater) is approximately 120 feet per year in the vicinity of the Site (GW-14 was approximately 20 ft from the interpreted limit of injection at IW-7). The estimated groundwater velocity in the vicinity of the site was calculated during the RI to be 40 to 80 ft per year (although it was calculated at 309 ft per year near the eastern edge of the Site).

Comprehensive Groundwater Monitoring Results. Depth to groundwater measurements and samples for VOC results were collected from all site wells in April 2022. Depth to water measurements and groundwater elevations are presented in Table 4. VOC analytical results are presented in Table 5 in comparison to Class GA Standards.

Groundwater elevations and interpreted groundwater contours are presented on Figure 4 (overburden) and Figure 5 (bedrock). Groundwater contours continue to indicate overburden flow is primarily to the north and northeast from the Site. Bedrock groundwater was previously interpreted to flow to the northeast, but April 2022 elevations indicate a more northerly flow direction. This likely represent slight temporal changes in flow direction.

PCE was the contaminant found at the highest concentrations. PCE concentrations and interpreted PCE isoconcentration lines are shown on Figure 6 (overburden) and Figure 7 (bedrock). Groundwater concentrations were similar to previous years, with the highest concentrations occurring below and to the east of the Site building. Concentrations PCE diminish to below groundwater standards approximately 400 feet northeast of the Site building (source area)(however, daughter products cis-1,2-DCE and vinyl chloride still exceed groundwater standards in bedrock groundwater at MW-12D, located approximately 400 feet northeast of the Site building).

CONCLUSIONS

Pilot Study Conclusions. The bioamendment pilot study injections were successfully completed and appear to indicate that bioremediation is a viable remedial option at the Site. Specifically, results indicated that:

- 1) The saturated overburden at the Site will successfully accept injections of bioamendments (specifically SRS-SD EVO).
- 2) Injections of 90 gallons of total fluid was shown to have a radius of influence of approximately 7.5 ft (assuming overburden saturated depth of 8 to 14 ft bgs).
- 3) Addition of bioamendment was successful in increasing the populations of reductively dehalogenating bacteria and the population appeared elevated for at least eight months when contact was achieved within the target injection zone. The increased microbial population also coincided with decreased concentrations of total COCs (primarily seen in monitoring well GW-14, the downgradient well).
- 4) The increase in dehalogenating microbes downgradient from the injections indicates that groundwater flow is approximately 120 ft per year in the vicinity of the Site.

- 5) Due to the inconsistency in results in the vicinity of some of the monitoring points (MW-113, and MW-114), additional bioamendment may be recommended at each injection point to improve contact in the vicinity of the injections, as well as to overcome possible subsurface conditions limiting reductive dichlorination in some areas.
- 6) Although bioremediation with amendment addition appears to be a successful remedial option for groundwater downgradient of the source, due to the heterogeneity of the overburden and the concentrations of contaminants, this remedy will still require long term monitoring with a component of MNA and likely more than one round of injections to lower the groundwater concentrations to near groundwater standards (assessing the life cycle of the amendment or the anticipated end point concentration would take more time and was beyond the scope of the pilot study).

Data Gap Investigation Conclusions. Sampling conducted and observations made as part of the data gap investigation indicated that:

- 1) The northeast extent of soil contamination above residential SCOs as estimated in the RI (MACTEC, 2021a) appears unchanged. Although pockets of contamination exceeding residential SCOs may be present just above bedrock outside this area, this would be the result of groundwater contamination and not additional soil sources.
- 2) The shallow bedrock is highly fractured and chlorinated compounds may be sorbed to the shallow bedrock matrix downgradient of the source area; however, this did not appear to extend much below the top of bedrock. It is therefore not anticipated that there is much residual source sorbed to bedrock.
- 3) Groundwater VOCs appeared to be similar in concentration and extent to those detected in 2019 and 2020, and concentrations are similar in range to those detected in the 2010 Site Characterization, indicating that the plume is in a fairly steady state (with some seasonal variations).

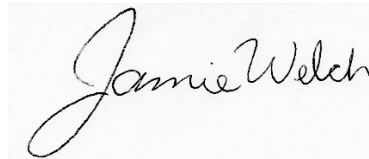
If you have questions on the material provided herein, please contact Chuck Staples, at 207-775-5401.

Sincerely,

MACTEC Engineering and Geology, P.C.



Charles Staples, PG
Project Manager



Jamie Welch
Technical Reviewer

Enclosures:

Tables:

- Table 1: Pilot Injection Summary
- Table 2: Soil and Bedrock VOC Results
- Table 3: Pilot Study Groundwater Results
- Table 4: April 2022 Groundwater Elevations
- Table 5: April 2022 Groundwater VOC Results

Figures:

- Figure 1: Site Location
- Figure 2: Pilot Injection Locations
- Figure 3: Groundwater Monitoring Well Locations
- Figure 4: Overburden Groundwater Contours April 2022
- Figure 5: Bedrock Groundwater Contours April 2022
- Figure 6: Overburden Groundwater PCE Concentrations April 2022
- Figure 7: Bedrock Groundwater PCE Concentrations April 2022

Attachments:

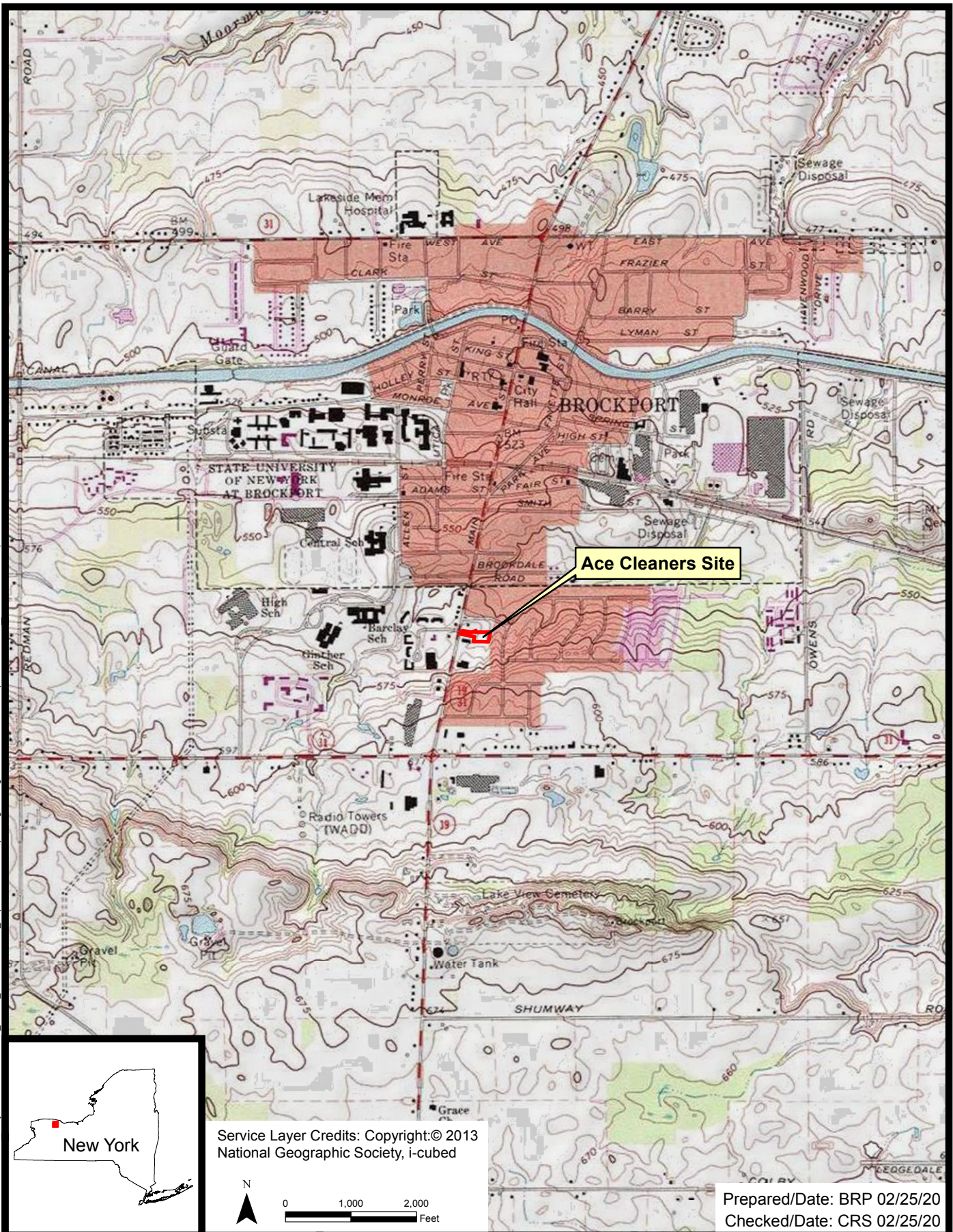
- Attachment 1: Field Data Records
- Attachment 2: Pre-Demolition Asbestos Survey
- Attachment 3: Well and Injection Point Survey
- Attachment 4: Data Usability Summary Report
- Attachment 5: Microbial Results

REFERENCES

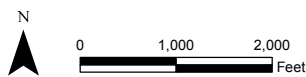
- MACTEC Engineering and Geology, PC (MACTEC), 2021a. Draft Remedial Investigation/Feasibility Study Report, Ace Cleaners Site. Prepared for the New York State Department of Environmental Conservation, Albany, New York. January 2021.
- MACTEC, 2021b. Data Gap Investigation and Pilot Study Field Activities Plan, Ace Cleaners Site. July 30, 2021.
- MACTEC, 2020a. *Quality Assurance Program Plan and Program Field Activities Plan*. Prepared for the New York State Department of Environmental Conservation, Albany, New York. April 2020.
- New York State Department of Environmental Conservation (NYSDEC), 2020. WA Issuance/Notice to Proceed to MACTEC/Engineering and Consulting, D009809-21. Dated September 21, 2020.
- NYSDEC, 2010. DER-10, Technical Guidance for Site Investigation and Remediation. May 3, 2010.

FIGURES

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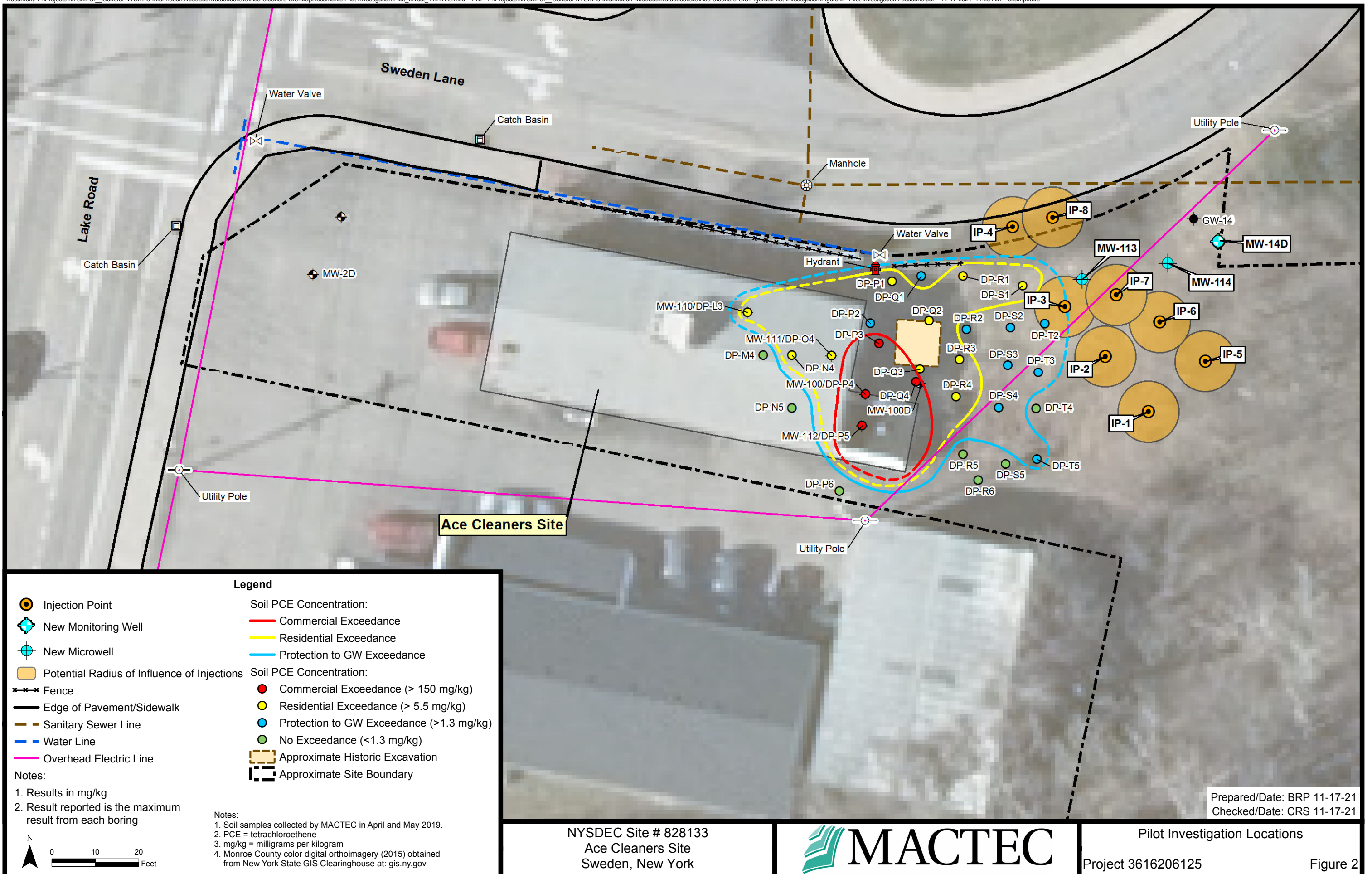


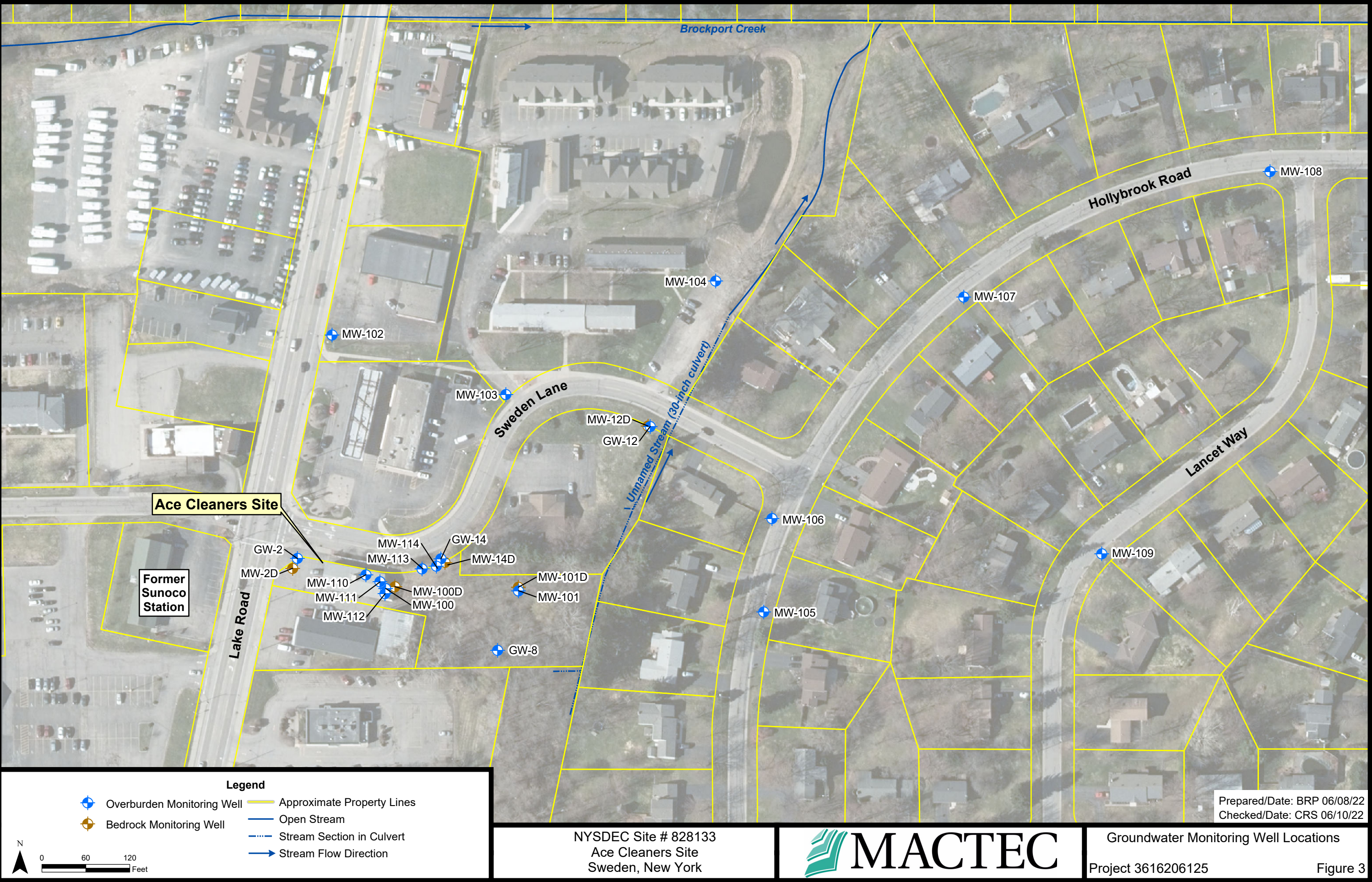
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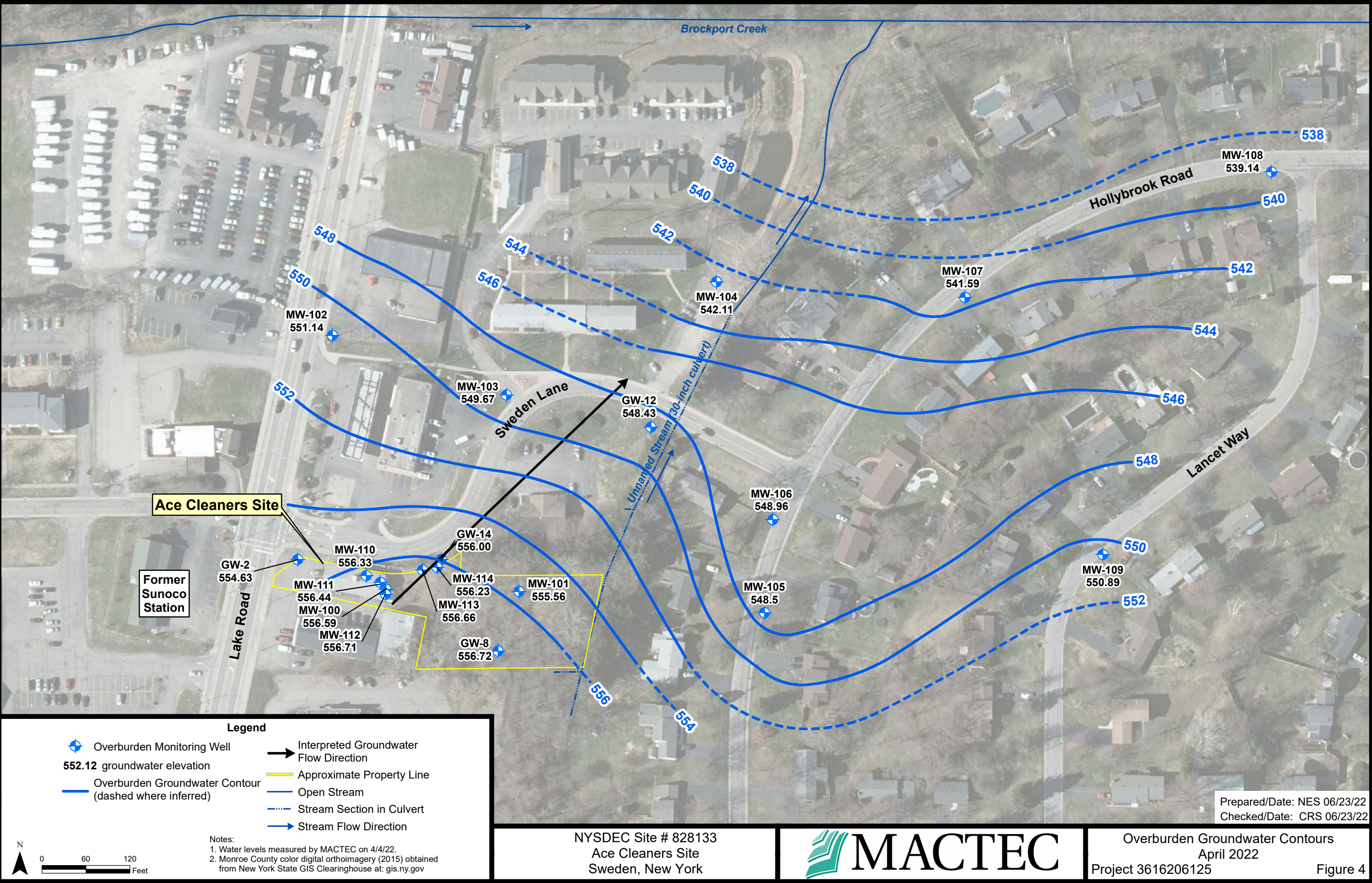
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Ace Cleaners Site
Sweden, New York

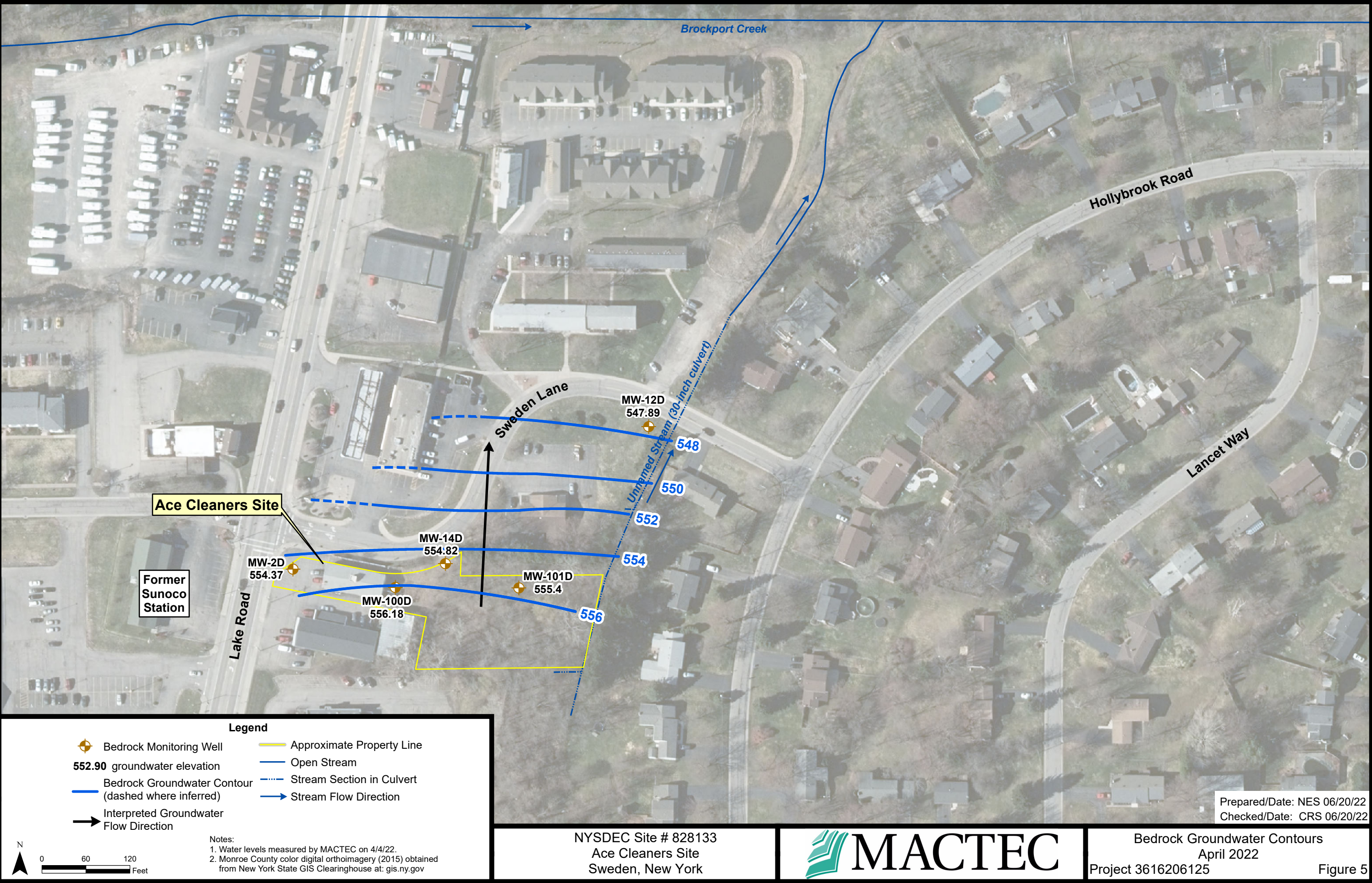


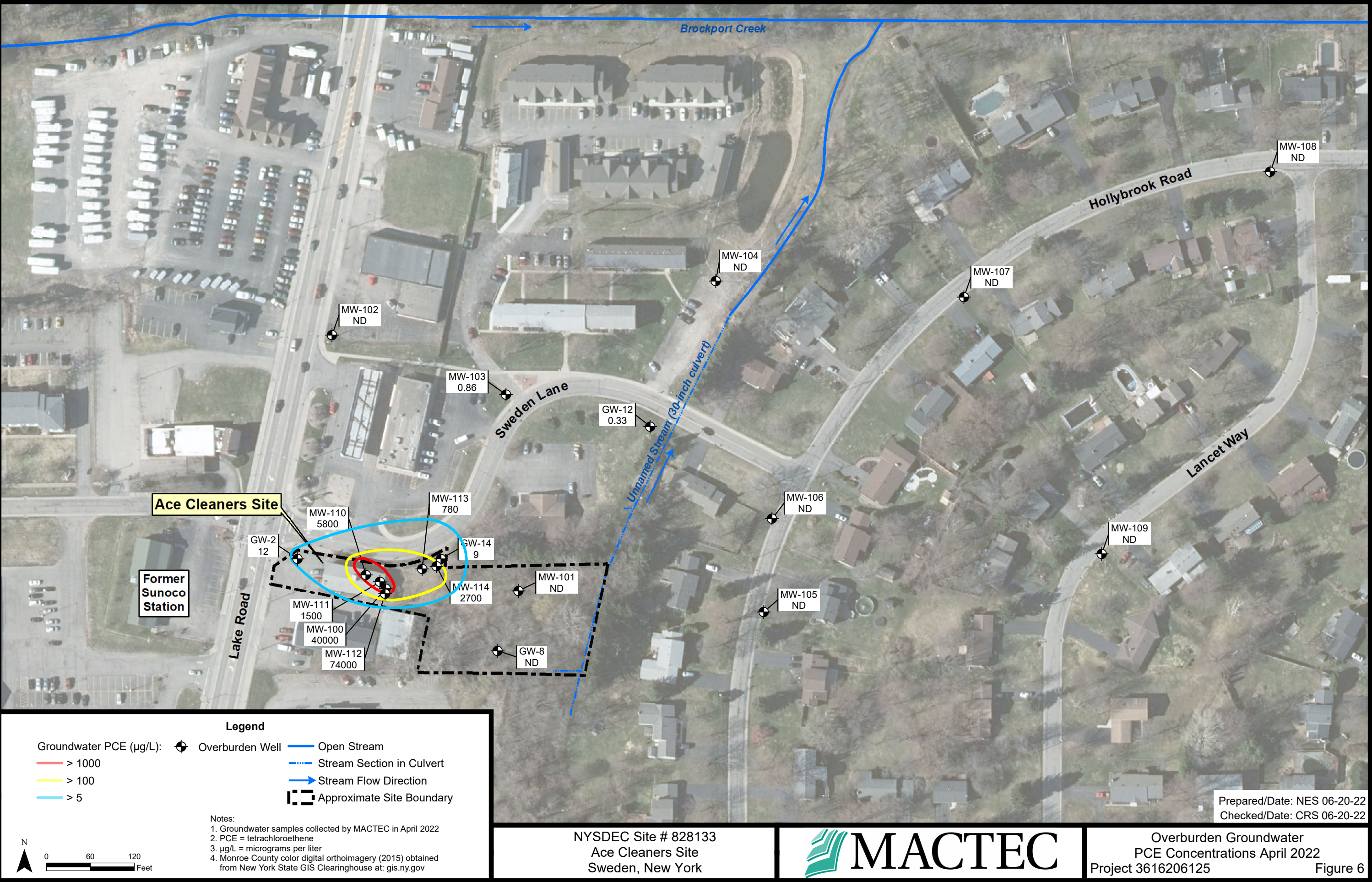
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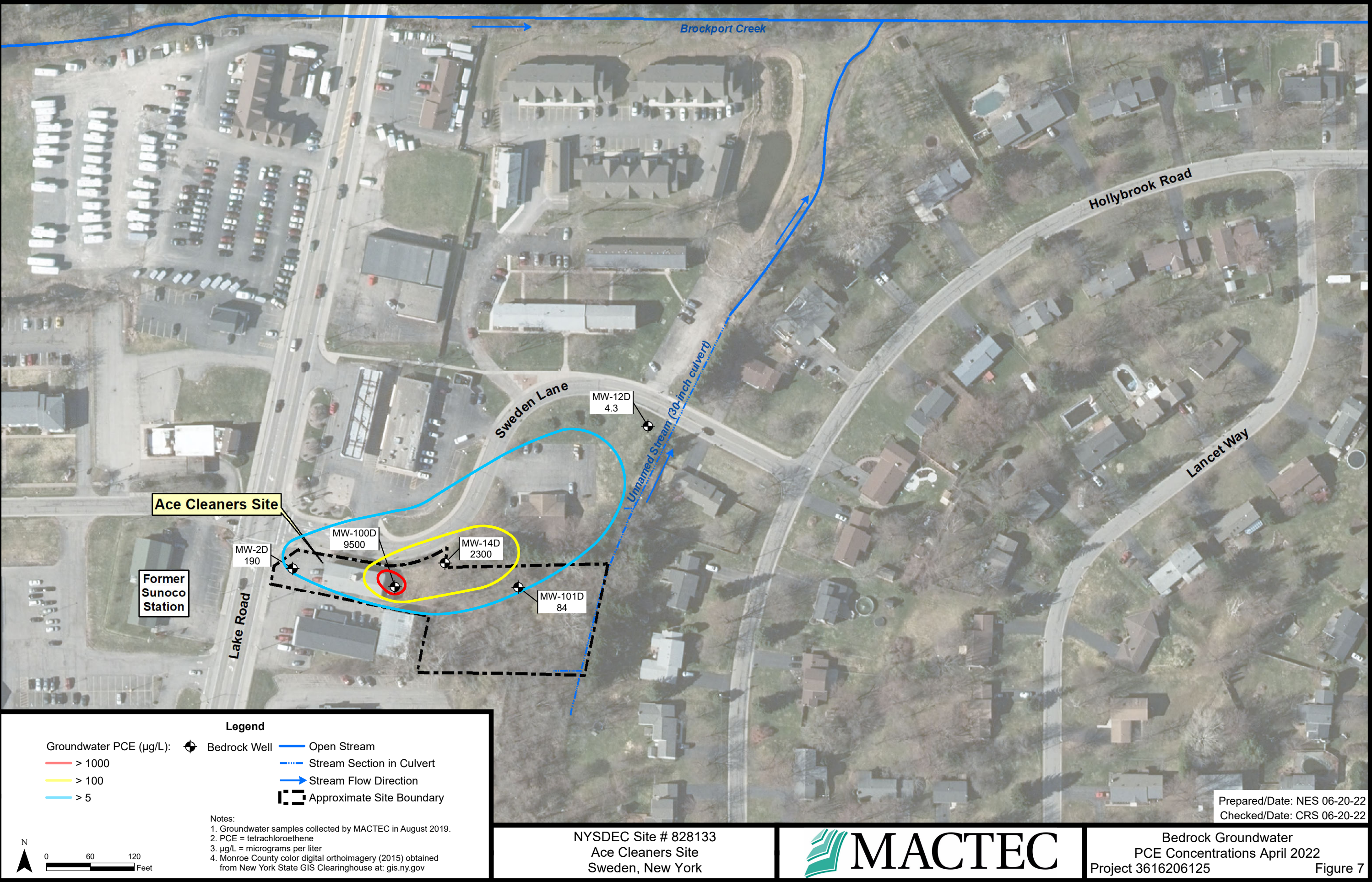












TABLES

Table 1: Pilot Injection Summary

Injection Point	Injection Interval	Time	Cumulative Total SRS-SD EVO (gal)	Total Bioaugmentation (L)	Notes
IP 5	12-10	1351	7	0.31	Injected using 2 foot screen
	12-10	1402	12		
	12-10	1415	17		
	12-10	1425	21		
	12-10	1435	25		
	10-8	1500	32	0.625	
	10-8	1515	35		
	10-8	1525	42		
	10-8	1540	50		
IP1	12-10	1550	1		Injected using 2 foot screen
	12-10	1555	2		
	12-10	1605	5		
	12-10	1615	7	0.31	
	12-10	1630	11		
	12-10	1645	13		Screen clogged, switched to disposable tip
	12-10	1715	20		
	10-8	1718	31	0.625	
	10-8	1725	50		
IP 6	13-11	810	0		Injected using disposable tip
	13-11	820	12	0.31	
	13-11	826	20		
	13-11	829	25		
	11-8	832	36	0.625	
	11-8	835	39		
	11-8	839	40		
	11-8	845	50		
IP 2	13-11	905	0		Injected using disposable tip
	13-11	907	7	0.31	
	13-11	912	12		
	13-11	917	25		
	11-8	920	25		
	11-8	923	29	0.625	
	11-8	927	35		
	11-8	934	50		
IP 7	13-11	1005	0		Injected using disposable tip
	13-11	1010	10	0.3	
	13-11	1015	15		
	13-11	1020	25		
	11-8	1022	30	0.625	
	11-8	1026	42		
	11-8	1028	50		
IP 3	12-10	1032	0		Monitoring at MW-113 for injection influence
	12-10	1038	5	0.31	Injected using disposable tip
	12-10	1045	10		
	12-10	1050	20		
	12-10	1053	25		
	10-8	1055	30	0.625	
	10-8	1100	40		
	10-8	1105	50		Begin chasing with clean water
	10-8	1115			15 gal clean water
	10-8	1120			23 gal clean water, amendment seen in MW-113
IP 4	13-11	1225	7	0.36	Injected using disposable tip
	13-11	1230	18		
	13-11	1232	25		
	11-8	1246	30	0.625	
	11-8	1255	37		
	11-8	1305	50		
IP 8	13-11	1312	0		Injected using disposable tip
	13-11	1315	5	0.32	
	13-11	1325	20		
	13-11	1326	25		
	11-8	1329	30	0.625	
	11-8	1337	40		
	11-8	1345	50		

Notes:

gal = gallons; L = liters

SRS-SD EVO volumes represent the total gallons of mixed solution injected into listed boring at the time indicated (i.e., running total).

Table 2: Soil and Bedrock VOC Results

Media Location Sample Depth Sample Date Field Sample ID Qc Code					SOIL MW-113 6 feet 8/3/2021 828133-MW113006 FS		SOIL MW-113 9 feet 8/3/2021 828133-MW113009 FS		SOIL MW-114 9 feet 8/3/2021 828133-MW114009 FS	
Parameter	UNRES	RES	COM	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
Volatile Organic Compounds (VOCs)										
1,1-Dichloroethene	0.33	100	500	ug/kg	0.0016		0.0016		0.00054 J	
1,2-Dichlorobenzene	1.1	100	500	ug/kg	0.00084 U		0.0009 U		0.00091 U	
2-Butanone	0.12	100	500	ug/kg	0.0042 U		0.0045 U		0.0046 U	
Carbon disulfide	NS	NS	NS	ug/kg	0.00084 U		0.0009 U		0.00038 J	
cis-1,2-Dichloroethene	0.25	59	500	ug/kg	0.0037		0.0037		0.0063	
Tetrachloroethene	1.3	5.5	150	ug/kg	0.41		0.52		0.77	
trans-1,2-Dichloroethene	0.19	100	500	ug/kg	0.00084 U		0.00022 J		0.00091 U	
Trichloroethene	0.47	10	200	ug/kg	0.021		0.018		0.021	
Vinyl chloride	0.02	0.21	13	ug/kg	0.00047 J		0.0055		0.00091 U	
Solids										
Percent Solids, Residual	NS	NS	NS	Percent	86.1		83		85.3	

Notes:

Bold result = analyte detected

FS = field sample

NS = No Standard

U = analyzed but not detected

J = estimated value

UNRES = NYSS-Part 375 Protection of Public Health - SOIL Unrestricted Use

RES = NYSS-Part 375 Protection of Public Health - SOIL Residential Use

COM = NYSS-Part 375 Protection of Public Health - SOIL Commercial Use

Gray highlighted cells indicate an exceedance of UNRES

Yellow highlighted cells indicate an exceedance of RES

Orange highlighted cells indicate an exceedance of COM

* = Bedrock samples compared to Part 375 Soil Cleanup Objectives for information purposes only.

Table 2: Soil and Bedrock VOC Results

Media Location Sample Depth Sample Date Field Sample ID Qc Code					SOIL MW-14D 13 feet 8/3/2021 828133-MW14D0013 FS		Bedrock* MW-14D 14.8 feet 8/4/2021 828133-MW14D014 FS		Bedrock* MW-14D 21 feet 8/4/2021 828133-MW14D021 FS	
Parameter	UNRES	RES	COM	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
Volatile Organic Compounds (VOCs)										
1,1-Dichloroethene	0.33	100	500	ug/kg	0.00091	J	0.1	U	0.05	U
1,2-Dichlorobenzene	1.1	100	500	ug/kg	0.00022	J	0.1	U	0.05	U
2-Butanone	0.12	100	500	ug/kg	0.0047	U	0.5	U	0.25	U
Carbon disulfide	NS	NS	NS	ug/kg	0.00095	U	0.1	U	0.05	U
cis-1,2-Dichloroethene	0.25	59	500	ug/kg	0.0039		0.1	U	0.05	U
Tetrachloroethene	1.3	5.5	150	ug/kg	3.6		11		0.05	U
trans-1,2-Dichloroethene	0.19	100	500	ug/kg	0.00095	U	0.1	U	0.05	U
Trichloroethene	0.47	10	200	ug/kg	0.036		0.15		0.05	U
Vinyl chloride	0.02	0.21	13	ug/kg	0.00095	U	0.1	U	0.05	U
Solids										
Percent Solids, Residual	NS	NS	NS	Percent	87.5					

Notes:

Bold result = analyte detected

FS = field sample

NS = No Standard

U = analyzed but not detected

J = estimated value

UNRES = NYSS-Part 375 Protection of Public Health - SOIL Unrestricted Use

RES = NYSS-Part 375 Protection of Public Health - SOIL Residential Use

COM = NYSS-Part 375 Protection of Public Health - SOIL Commercial Use

Gray highlighted cells indicate an exceedance of UNRES

Yellow highlighted cells indicate an exceedance of RES

Orange highlighted cells indicate an exceedance of COM

* = Bedrock samples compared to Part 375 Soil Cleanup Objectives for information purposes only.

Table 3: Pilot Study Groundwater Results

Media Location Sample Date Field Sample ID Qc Code			GW GW-14 8/3/2021 828133-GW014010 FS		GW GW-14 10/4/2021 828133-GW14-100421 FS		GW GW-14 12/7/2021 828133-GW14-120721 FS		GW GW-14 4/5/2022 828133-GW014012 FS	
Parameter	GA	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Volatile Organic Compounds (VOCs)										
1,1-Dichloroethene	5	ug/L	5.4	J	8.7	J	1.1	J	1	UJ
Chloroethane	5	ug/L	10	U	10	U	5	U	1	UJ
Chloroform	7	ug/L	10	U	10	U	5	U	1	UJ
Chloromethane	5	ug/L	10	U	3.3	J	5	U	1	UJ
cis-1,2-Dichloroethene	5	ug/L	280		1400		460		120	J
Tetrachloroethene	5	ug/L	1100		720		9.9		9	J
trans-1,2-Dichloroethene	5	ug/L	10	U	10	J	3.9	J	1.6	J
Trichloroethene	5	ug/L	150		99		57		7.3	J
Vinyl chloride	2	ug/L	4.7	J	12		2.5	J	0.82	J
Total Metals										
Iron	300	ug/L	2500		4530		1720		587	
Manganese	300	ug/L	1400		1540		1420		727	
Dissolved Gases										
Ethane	NS	ug/L	1.2		0.33	J	1	U	1	U
Ethene	NS	ug/L	1	U	1	U	1	U	1	U
Methane	NS	ug/L	7.7		14		8.4		3	
Wet Chemistry										
Chloride	250	mg/L	301		374		528		136	
Sulfate	250	mg/L	102		64.3		316		65.7	
Nitrate as N	10	mg/L	1	U	1	U	1	U	1	U
Total Alkalinity, as CaCO3	NS	mg/L	487		444		817		434	
Total Organic Carbon	NS	mg/L	10.3		8.7		25.6		10.2	
Field Data										
Oxidation Reduction Pot.		mv	12		7.1		0.9		-2.4	
Dissolved Oxygen		mg/L	2.0		5.4		1.5		2.6	
Microbe										
Dehalobacter spp. (DHb)	gene copies/liter		2,600		80,000		5,970		3,500	
Dehalococcoides spp. (DHc)	gene copies/liter		75,900		465,000		1,800,000		330,000	
Dehalogenimonas spp.	gene copies/liter		3,800		9,100,000		1,920,000		2,100,000	
Trichloroethene Reductase (tceA)	gene copies/liter		<100		<100		<100		<100	
Vinyl Chloride Reductase (bvcA)	gene copies/liter		200		43,400		<100		5,500	
Vinyl Chloride Reductase (vcrA)	gene copies/liter		262,000		2,100,000		155,000		710,000	

General Notes:

Bold result = analyte detected
FS = field sample
FD = field duplicate
mg/L = milligrams per liter (ppm)
ug/L = micrograms per liter (ppb)
mv = millivolts
NS = No Standard
U = analyzed but not detected
J = estimated value
GA = NYS Part 703 Groundwater Quality Standards
Yellow highlighted cells indicate an exceedance of GA

Table 3: Pilot Study Groundwater Results

Parameter	Media Location Sample Date Field Sample ID Qc Code		GW MW-113 8/2/2021 - 8/3/2021 828133-MW113011 FS		GW MW-113 10/4/2021 828133-MW113-100421 FS		GW MW-113 12/7/2021 828133-MW113-120721 FS		GW MW-113 4/5/2022 828133-MW113011 FS		GW MW-113 4/5/2022 828133-MW113011D FD	
	GA	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Volatile Organic Compounds (VOCs)												
1,1-Dichloroethene	5	ug/L	24	J	17	J	20		11	J	11	J
Chloroethane	5	ug/L	25	U	25	U	20	U	1.9	J	2.2	J
Chloroform	7	ug/L	13	J	25	U	20	U	5	UJ	5	UJ
Chloromethane	5	ug/L	25	U	25	U	20	U	5	UJ	5	UJ
cis-1,2-Dichloroethene	5	ug/L	67		390		640		490	J	460	J
Tetrachloroethene	5	ug/L	3600	J-	4100		1800		780	J	850	J
trans-1,2-Dichloroethene	5	ug/L	25	U	25	U	8.6	J	3.3	J	3.4	J
Trichloroethene	5	ug/L	260		1400		1700		310	J	310	J
Vinyl chloride	2	ug/L	27		22	J	48		23	J	19	J
Total Metals												
Iron	300	ug/L	4250		1380		1300		345			
Manganese	300	ug/L	4550		5140		3670		187			
Dissolved Gases												
Ethane	NS	ug/L	0.67	J	0.27	J	1	U	0.38	J		
Ethene	NS	ug/L	0.35	J		1	U	1.5		8		
Methane	NS	ug/L	7.7		18		23		140			
Wet Chemistry												
Chloride	250	mg/L	298		322		253		138			
Sulfate	250	mg/L	60.7		62.4		50.3		64.4			
Nitrate as N	10	mg/L		1	U		0.7	J	0.8	J		
Total Alkalinity, as CaCO3	NS	mg/L	422		417		516		594			
Total Organic Carbon	NS	mg/L	4.1		4.1		8.1		46.6			
Field Data												
Oxidation Reduction Pot.		mv	-230		140		-84		16			
Dissolved Oxygen		mg/L	9.8		1.9		7.6		1.7			
Microbe												
Dehalobacter spp. (DHb)	gene copies/liter		130,000		198,000		40,200		21,300			
Dehalococcoides spp. (DHc)	gene copies/liter		23,300		2,500		74,000		9,900			
Dehalogenimonas spp.	gene copies/liter		213,000		37,000		333,000		455,000			
Trichloroethene Reductase (tceA)	gene copies/liter		<100		<100		348		220			
Vinyl Chloride Reductase (bvcA)	gene copies/liter		<100		<100		<100		<100			
Vinyl Chloride Reductase (vcrA)	gene copies/liter		<100		<100		520		1,800			

General Notes:

Bold result = analyte detected

FS = field sample

FD = field duplicate

mg/L = milligrams per liter (ppm)

ug/L = micrograms per liter (ppb)

mv = millivolts

NS = No Standard

U = analyzed but not detected

J = estimated value

GA = NYS Part 703 Groundwater Quality Standards

Yellow highlighted cells indicate an exceedance of GA

Table 3: Pilot Study Groundwater Results

Media Location Sample Date Field Sample ID Qc Code			GW MW-114 8/3/2021 828133-MW114012 FS		GW MW-114 8/3/2021 828133-MW114012D FD		GW MW-114 10/4/2021 828133-MW114-100421 FS		GW MW-114 10/4/2021 828133-MW114-100421-D FD		GW MW-114 12/7/2021 828133-MW114-120721 FS		GW MW-114 12/7/2021 828133-MW114-120721-D FD		GW MW-114 4/5/2022 828133-MW114010 FS	
Parameter	GA	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Volatile Organic Compounds (VOCs)																
1,1-Dichloroethene	5	ug/L	5.2 J		9.6 J		20 U		4.1 J		25 U		25 U		25 UJ	
Chloroethane	5	ug/L	20 U		25 U		20 U		20 U		25 U		25 U		25 UJ	
Chloroform	7	ug/L	20 U		25 U		20 U		20 U		25 U		25 U		25 UJ	
Chloromethane	5	ug/L	20 U		25 U		5.7 J		20 U		53		47		25 UJ	
cis-1,2-Dichloroethene	5	ug/L	20 J		20 J		20		18 J		71		70		150 J	
Tetrachloroethene	5	ug/L	2300		3200		2600		2900		3000		3100		2700 J	
trans-1,2-Dichloroethene	5	ug/L	20 U		25 U		20 U		20 U		25 U		25 U		25 UJ	
Trichloroethene	5	ug/L	67		89		78		82		140		140		210 J	
Vinyl chloride	2	ug/L	20 U		25 U		20 U		20 U		25 U		25 U		25 UJ	
Total Metals																
Iron	300	ug/L	6890				1260				721				371	
Manganese	300	ug/L	3070				2540				754				639	
Dissolved Gases																
Ethane	NS	ug/L	0.49 J				1 U				1 U				1 U	
Ethene	NS	ug/L	1 U				1 U				1 U				1 U	
Methane	NS	ug/L	5.1				4.6				8.9				5.7	
Wet Chemistry																
Chloride	250	mg/L	317				297				304				304	
Sulfate	250	mg/L	70				66.3				85.1				103	
Nitrate as N	10	mg/L	1 U				1 U				1 U				1 U	
Total Alkalinity, as CaCO3	NS	mg/L	443				435				469				469	
Total Organic Carbon	NS	mg/L	3.4				3.9				4.4				5.8	
Field Data																
Oxidation Reduction Pot.	mv		-280				140				130				110	
Dissolved Oxygen	mg/L		1.5				5.4				7.2				3.7	
Microbe																
Dehalobacter spp. (DHb)	gene copies/liter		3,900				17,000				4,120				1,110	
Dehalococcoides spp. (DHc)	gene copies/liter		<100				27,000				29,200				<100	
Dehalogenimonas spp.	gene copies/liter		5,500				61,000				501,000				183,000	
Trichloroethene Reductase (tceA)	gene copies/liter		<100				<100				<100				<100	
Vinyl Chloride Reductase (bvcA)	gene copies/liter		<100				<100				<100				<100	
Vinyl Chloride Reductase (vcrA)	gene copies/liter		<100				<100				<100				<100	

General Notes:

Bold result = analyte detected
FS = field sample
FD = field duplicate
mg/L = milligrams per liter (ppm)
ug/L = micrograms per liter (ppb)
mv = millivolts
NS = No Standard
U = analyzed but not detected
J = estimated value
GA = NYS Part 703 Groundwater Quality Standards
Yellow highlighted cells indicate an exceedance of GA

Table 3: Pilot Study Groundwater Results

Parameter	Media Location Sample Date Field Sample ID Qc Code		GW MW-14D 10/4/2021 828133-MW14D-100421 FS		GW MW-14D 12/7/2021 828133-MW14D-120721 FS		GW MW-14D 4/5/2022 828133-MW14D020 FS		
	GA	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	
	Volatile Organic Compounds (VOCs)								
	1,1-Dichloroethene	5	ug/L	1.1	J	6.3		5.2	J
Chloroethane	5	ug/L	2.5	U	2.5	U	20	UJ	
Chloroform	7	ug/L	2.5	U	2.5	U	20	UJ	
Chloromethane	5	ug/L	2.5	U	5.1	J+	20	UJ	
cis-1,2-Dichloroethene	5	ug/L	390		630		390	J	
Tetrachloroethene	5	ug/L	7.1		1900		2300	J	
trans-1,2-Dichloroethene	5	ug/L	4		4.9		20	UJ	
Trichloroethene	5	ug/L	6.1		280		260	J	
Vinyl chloride	2	ug/L	20		220		110	J	
Total Metals									
Iron	300	ug/L	417		1790		1510		
Manganese	300	ug/L	707		1170		910		
Dissolved Gases									
Ethane	NS	ug/L	440		81		130		
Ethene	NS	ug/L	0.53	J	16		6.9	J	
Methane	NS	ug/L	1900		550		720		
Wet Chemistry									
Chloride	250	mg/L	244		290		283		
Sulfate	250	mg/L	88.9		72.3		61.8		
Nitrate as N	10	mg/L	1	U	1	U	1	U	
Total Alkalinity, as CaCO3	NS	mg/L	350		455		433		
Total Organic Carbon	NS	mg/L	1.9		4.8		3		
Field Data									
Oxidation Reduction Pot.	mv		28		27		-2.1		
Dissolved Oxygen	mg/L		0.9		1.1		0.9		
Microbe									
Dehalobacter spp. (DHb)	gene copies/liter		2,400		1,510		600		
Dehalococcoides spp. (DHc)	gene copies/liter		276,000		186,000		31,000		
Dehalogenimonas spp.	gene copies/liter		1,400,000		629,000		555,000		
Trichloroethene Reductase (tceA)	gene copies/liter		<100		4,820		1,200		
Vinyl Chloride Reductase (bvcA)	gene copies/liter		349,000		100,000		8,300		
Vinyl Chloride Reductase (vcrA)	gene copies/liter		23,000		89,000		12,400		

General Notes:

Bold result = analyte detected

FS = field sample

FD = field duplicate

mg/L = milligrams per liter (ppm)

ug/L = micrograms per liter (ppb)

mv = millivolts

NS = No Standard

U = analyzed but not detected

J = estimated value

GA = NYS Part 703 Groundwater Quality Standards

Yellow highlighted cells indicate an exceedance of GA

Table 4: April 2022 Groundwater Elevations

Well ID	Type	Northing	Easting	Well Depth (ft bgs)	Screen Length (ft)	Bedrock Depth (ft bgs) (assumed)	Casing Elevation (ft amsl)	Riser Elevation (ft amsl)	Depth to Water 4/4/22 (ft)	Groundwater Elevation 4/4/22 (ft amsl)
GW-2	Overburden	1167902.3	1319315.0	17.50	10.00	NA	559.50	559.30	4.67	554.63
MW-2D	Bedrock	1167889.0	1319308.5	23.7	5.0	20.0	559.60	559.31	4.94	554.37
GW-8	Overburden	1167776.61	1319588.16	8.5	5.0	8.50	559.87	559.61	2.89	556.72
GW-12	Overburden	1168082.8	1319796.6	13.0	10.0	13.0	552.27	552.02	3.59	548.43
MW-12D	Bedrock	1168083.2	1319793.5	17.7	5.0	13.0	552.30	551.97	4.08	547.89
GW-14	Overburden	1167901.82	1319510.81	13.5	10.0	13.5	559.57	559.31	3.31	556.00
MW-14D	Bedrock	1167896.6	1319516.5	22.00	5.00	14.00	559.70	560.07	5.25	554.82
MW-100	Overburden	1167861.5	1319435.4	14.0	10.0	14.0	560.30	559.98	3.39	556.59
MW-100D	Bedrock	1167864.0	1319447.9	22.3	5.0	12.5	559.60	559.23	3.05	556.18
MW-101	Overburden	1167858.5	1319616.7	10.0	5.0	10.0	557.40	557.18	1.62	555.56
MW-101D	Bedrock	1167863.2	1319616.5	15.2	5.0	10.2	560.07	559.91	4.51	555.40
MW-102	Overburden	1168207.5	1319362.2	14.00	10.00	14.00	554.30	554.14	3.00	551.14
MW-103	Overburden	1168126.3	1319599.6	10.50	NA	NA	553.70	553.55	3.88	549.67
MW-104	Overburden	1168281.1	1319886.1	7.00	5.00	7.00	546.60	546.24	4.13	542.11
MW-105	Overburden	1167829.6	1319951.7	9.80	5.00	9.80	554.00	553.65	5.15	548.50
MW-106	Overburden	1167956.7	1319962.8	12.50	10.00	12.80	551.40	551.16	2.2	548.96
MW-107	Overburden	1168259.4	1320224.8	7.00	5.00	7.00	545.90	545.70	4.11	541.59
MW-108	Overburden	1168430.4	1320642.9	11.50	8.00	11.50	542.00	541.65	2.51	539.14
MW-109	Overburden	1167909.1	1320413.0	11.00	8.00	11.00	556.00	555.69	4.8	550.89
MW-110	Overburden	1167880.3	1319408.4	11.90	7.00	11.90	562.00	561.98	5.65	556.33
MW-111	Overburden	1167870.4	1319427.6	9.50	5.00	9.50	560.50	560.52	4.08	556.44
MW-112	Overburden	1167854.3	1319434.6	9.00	5.00	NA	561.60	561.62	4.91	556.71
MW-113	Overburden	1167887.9	1319485.2	12.00	10.00	12.00	559.10	559.36	2.7	556.66
MW-114	Overburden	1167891.6	1319504.9	13.00	10.00	13.00	558.80	559.04	2.81	556.23

Notes:

Elevation is North Atlantic Vertical Datum 1988.

amsl = above meal sea level

bgs = feet below ground surface

ft = feet

Depth to water measured as feet below top of riser.

Table 5: April 2022 Groundwater VOC Results

Parameter	Media Location Sample Date Field Sample ID Qc Code			GW GW-12 4/5/2022 828133-GW12008 FS		GW GW-14 4/5/2022 828133-GW014012 FS		GW GW-2 4/6/2022 828133-GW2012 FS		GW GW-8 4/5/2022 828133-GW8008 FS		GW MW-100 4/5/2022 828133-MW100008 FS	
	GA	GV	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Volatile Organic Compounds (VOCs)													
1,1-Dichloroethene	5	NS	ug/L	1 UJ		1 UJ		1 U		1 UJ		250 UJ	
2-Butanone	NS	50	ug/L	5 UJ		5 UJ		5 U		5 UJ		1300 UJ	
Acetone	NS	50	ug/L	5 UJ		5 UJ		5 U		5 UJ		1300 UJ	
Carbon disulfide	NS	60	ug/L	1 UJ		1 UJ		1 U		1 UJ		250 UJ	
Chloroethane	5	NS	ug/L	1 UJ		1 UJ		1 U		1 UJ		250 UJ	
Chloroform	7	NS	ug/L	1 UJ		1 UJ		1 U		1 UJ		260 J	
cis-1,2-Dichloroethene	5	NS	ug/L	0.43 J		120 J		0.53 J		1 UJ		2300 J	
Tetrachloroethene	5	NS	ug/L	0.33 J		9 J		12		1 UJ		40000 J	
trans-1,2-Dichloroethene	5	NS	ug/L	1 UJ		1.6 J		1 U		1 UJ		250 UJ	
Trichloroethene	5	NS	ug/L	1 UJ		7.3 J		1		1 UJ		1500 J	
Vinyl chloride	2	NS	ug/L	1 UJ		0.82 J		1 U		1 UJ		210 J	

General Notes:

Bold result = analyte detected

FS = field sample

FD = field duplicate

ug/l = micrograms per liter (ppb)

NS = No Standard

U = analyzed but not detected

J = estimated value

GA = NYS Part 703 Groundwater Quality Standards

GV = NYS Part 703 Guidance Values

Yellow highlighted cell exceeds the Class GA Standard

Orange highlighted cell exceeds the Guidance Value

Table 5: April 2022 Groundwater VOC Results

Parameter	Media			GW		GW		GW		GW		GW	
	Location			MW-100		MW-100D		MW-101		MW-101D		MW-102	
	Sample Date			4/5/2022		4/5/2022		4/5/2022		4/5/2022		4/6/2022	
	Field Sample ID			828133-MW100008D		828133-MW100D018		828133-MW101008		828133-MW101D015		828133-MW102008	
Qc Code	FD			FS		FS		FS		FS		FS	
	GA	GV	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Volatile Organic Compounds (VOCs)													
1,1-Dichloroethene	5	NS	ug/L	250	UJ	100	UJ	1	UJ	1	UJ	1	U
2-Butanone	NS	50	ug/L	1300	UJ	500	UJ	0.86	J	5	UJ	5	U
Acetone	NS	50	ug/L	1300	UJ	500	UJ	6.1	J	5	UJ	5	U
Carbon disulfide	NS	60	ug/L	250	UJ	100	UJ	9	J	1	UJ	1	U
Chloroethane	5	NS	ug/L	250	UJ	100	UJ	1	UJ	1	UJ	1	U
Chloroform	7	NS	ug/L	250	J	100	J	1	UJ	1	UJ	1	U
cis-1,2-Dichloroethene	5	NS	ug/L	1800	J	330	J	4.3	J	2	J	1	U
Tetrachloroethene	5	NS	ug/L	43000	J	9500	J	1	UJ	84	J	1	U
trans-1,2-Dichloroethene	5	NS	ug/L	250	UJ	100	UJ	1	UJ	1	UJ	1	U
Trichloroethene	5	NS	ug/L	1400	J	1400	J	0.73	J	3.4	J	1	U
Vinyl chloride	2	NS	ug/L	200	J	100	UJ	1	UJ	0.2	J	1	U

General Notes:

Bold result = analyte detected

FS = field sample

FD = field duplicate

ug/l = micrograms per liter (ppb)

NS = No Standard

U = analyzed but not detected

J = estimated value

GA = NYS Part 703 Groundwater Quality Standards

GV = NYS Part 703 Guidance Values

Yellow highlighted cell exceeds the Class GA Standard

Orange highlighted cell exceeds the Guidance Value

Table 5: April 2022 Groundwater VOC Results

Media Location Sample Date Field Sample ID Qc Code				GW MW-103 4/5/2022 828133-MW103007 FS		GW MW-104 4/5/2022 828133-MW104005 FS		GW MW-105 4/5/2022 828133-MW105007 FS		GW MW-106 4/5/2022 828133-MW106007 FS		GW MW-107 4/6/2022 828133-MW107007 FS	
Parameter	GA	GV	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Volatile Organic Compounds (VOCs)													
1,1-Dichloroethene	5	NS	ug/L	1 U		1 UJ		1 UJ		1 UJ		1 U	
2-Butanone	NS	50	ug/L	5 U		5 UJ		5 UJ		5 UJ		5 U	
Acetone	NS	50	ug/L	5 U		5 UJ		5.6 J		5 UJ		5 U	
Carbon disulfide	NS	60	ug/L	1 U		1 UJ		1 UJ		1 UJ		1 U	
Chloroethane	5	NS	ug/L	1 U		1 UJ		1 UJ		1 UJ		1 U	
Chloroform	7	NS	ug/L	1 U		1 UJ		1 UJ		1 UJ		1 U	
cis-1,2-Dichloroethene	5	NS	ug/L	2.5		1.3 J		1 UJ		1 UJ		1 U	
Tetrachloroethene	5	NS	ug/L	0.86 J		1 UJ		1 UJ		1 UJ		1 U	
trans-1,2-Dichloroethene	5	NS	ug/L	1 U		1 UJ		1 UJ		1 UJ		1 U	
Trichloroethene	5	NS	ug/L	1 U		1 UJ		1 UJ		1 UJ		1 U	
Vinyl chloride	2	NS	ug/L	1 U		1 UJ		1 UJ		1 UJ		1 U	

General Notes:

Bold result = analyte detected

FS = field sample

FD = field duplicate

ug/l = micrograms per liter (ppb)

NS = No Standard

U = analyzed but not detected

J = estimated value

GA = NYS Part 703 Groundwater Quality Standards

GV = NYS Part 703 Guidance Values

Yellow highlighted cell exceeds the Class GA Standard

Orange highlighted cell exceeds the Guidance Value

Table 5: April 2022 Groundwater VOC Results

Media Location Sample Date Field Sample ID Qc Code				GW MW-108 4/5/2022 828133-MW108008 FS		GW MW-109 4/5/2022 828133-MW109002 FS		GW MW-110 4/6/2022 828133-MW110010 FS		GW MW-111 4/6/2022 828133-MW111007 FS		GW MW-112 4/6/2022 828133-MW112007 FS	
Parameter	GA	GV	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Volatile Organic Compounds (VOCs)													
1,1-Dichloroethene	5	NS	ug/L	1 UJ		1 UJ		10 J		15		130 J	
2-Butanone	NS	50	ug/L	5 UJ		5 UJ		130 U		50 U		2500 U	
Acetone	NS	50	ug/L	5 UJ		5 UJ		130 U		50 U		2500 U	
Carbon disulfide	NS	60	ug/L	1 UJ		1 UJ		25 U		10 U		500 U	
Chloroethane	5	NS	ug/L	1 UJ		1 UJ		25 U		10 U		500 U	
Chloroform	7	NS	ug/L	1 UJ		1 UJ		8.7 J		10 U		430 J	
cis-1,2-Dichloroethene	5	NS	ug/L	1 UJ		1 UJ		57		220		12000	
Tetrachloroethene	5	NS	ug/L	1 UJ		1 UJ		5800		1500		74000	
trans-1,2-Dichloroethene	5	NS	ug/L	1 UJ		1 UJ		25 U		10 U		500 U	
Trichloroethene	5	NS	ug/L	1 UJ		1 UJ		110		220		8400	
Vinyl chloride	2	NS	ug/L	1 UJ		1 UJ		23 J		31		580	

General Notes:

Bold result = analyte detected

FS = field sample

FD = field duplicate

ug/l = micrograms per liter (ppb)

NS = No Standard

U = analyzed but not detected

J = estimated value

GA = NYS Part 703 Groundwater Quality Standards

GV = NYS Part 703 Guidance Values

Yellow highlighted cell exceeds the Class GA Standard

Orange highlighted cell exceeds the Guidance Value

Table 5: April 2022 Groundwater VOC Results

Media Location Sample Date Field Sample ID Qc Code				GW MW-113 4/5/2022 828133-MW113011 FS		GW MW-113 4/5/2022 828133-MW113011D FD		GW MW-114 4/5/2022 828133-MW114010 FS		GW MW-12D 4/5/2022 828133-MW12D015 FS		GW MW-14D 4/5/2022 828133-MW14D020 FS	
Parameter	GA	GV	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Volatile Organic Compounds (VOCs)													
1,1-Dichloroethene	5	NS	ug/L	11	J	11	J	25	UJ	0.64	J	5.2	J
2-Butanone	NS	50	ug/L	25	UJ	25	UJ	130	UJ	10	UJ	100	UJ
Acetone	NS	50	ug/L	25	UJ	25	UJ	130	UJ	10	UJ	100	UJ
Carbon disulfide	NS	60	ug/L	5	UJ	5	UJ	25	UJ	2	UJ	20	UJ
Chloroethane	5	NS	ug/L	1.9	J	2.2	J	25	UJ	2	UJ	20	UJ
Chloroform	7	NS	ug/L	5	UJ	5	UJ	25	UJ	2	UJ	20	UJ
cis-1,2-Dichloroethene	5	NS	ug/L	490	J	460	J	150	J	160	J	390	J
Tetrachloroethene	5	NS	ug/L	780	J	850	J	2700	J	4.3	J	2300	J
trans-1,2-Dichloroethene	5	NS	ug/L	3.3	J	3.4	J	25	UJ	2	J	20	UJ
Trichloroethene	5	NS	ug/L	310	J	310	J	210	J	4.8	J	260	J
Vinyl chloride	2	NS	ug/L	23	J	19	J	25	UJ	6.7	J	110	J

General Notes:

Bold result = analyte detected

FS = field sample

FD = field duplicate

ug/l = micrograms per liter (ppb)

NS = No Standard

U = analyzed but not detected

J = estimated value

GA = NYS Part 703 Groundwater Quality Standards

GV = NYS Part 703 Guidance Values

Yellow highlighted cell exceeds the Class GA Standard

Orange highlighted cell exceeds the Guidance Value

Table 5: April 2022 Groundwater VOC Results

Media Location Sample Date Field Sample ID Qc Code				GW MW-2D 4/6/2022 828133-MW2D020 FS
Parameter	GA	GV	Units	Result Qualifier
Volatile Organic Compounds (VOCs)				
1,1-Dichloroethene	5	NS	ug/L	1 U
2-Butanone	NS	50	ug/L	5 U
Acetone	NS	50	ug/L	5 U
Carbon disulfide	NS	60	ug/L	1 U
Chloroethane	5	NS	ug/L	1 U
Chloroform	7	NS	ug/L	1 U
cis-1,2-Dichloroethene	5	NS	ug/L	11
Tetrachloroethene	5	NS	ug/L	190
trans-1,2-Dichloroethene	5	NS	ug/L	1 U
Trichloroethene	5	NS	ug/L	25
Vinyl chloride	2	NS	ug/L	0.69 J

General Notes:

Bold result = analyte detected

FS = field sample

FD = field duplicate

ug/l = micrograms per liter (ppb)

NS = No Standard

U = analyzed but not detected

J = estimated value

GA = NYS Part 703 Groundwater Quality Standards

GV = NYS Part 703 Guidance Values

Yellow highlighted cell exceeds the Class GA Standard

Orange highlighted cell exceeds the Guidance Value

ATTACHMENT 1

FIELD DATA RECORDS

MACTEC

511 Congress Street, Portland Maine 04101

Boring ID: MW14B

Page No. _____

of:	/
-----	---

Bore Hole OD: *N/A*

Casing Size:	2 7/8
--------------	-------

Sampler: 38

Sampler ID/OD: 1.25/2.56

Checked By: J. Hunt / 18/13/21

Time:

NOTES: Sample 828133-MW14D013 taken at 13' from the sandy layer at the bottom section of the final sampling run.

ROCK CORING LOG



511 Congress Street, Portland Maine 04101

Project Name: <u>Ace Cleaners</u>		Boring ID: <u>MW 140</u>	
Project Location: <u>Rockport NY</u>		Page No. <u>1</u>	
Project No.: <u>361626125.02</u>		Client: <u>NYSDDEC</u>	
Boring Location: <u>MW 140</u>		of: <u>2</u>	
Weather: <u>Sunny 70°F</u>		Top of Rock: <u>14'</u>	
Subcontractor: <u>Northridge</u>		Total Depth: <u>19'</u>	
Driller: <u>Northridge</u>		Casing Depth: <u>14'</u>	
Rig Type/Model: <u>CME</u>		Drilling Method: <u>Rotary</u>	
Reference Elevation:		Rock Drilled: <u>5'</u>	
		Protection Level: <u>D</u>	
		Date Started: <u>08/21</u>	
		Date Completed: <u>08/23/21</u>	
		Core Barrel Type: <u>Diamond</u>	
		Logged By: <u>BP</u>	
		Checked By: <u>J. Rault</u>	
		Core Size: <u>1.5"</u>	
		Water Level: <u>#8</u>	
		Time: <u>—</u>	
		Core Length: <u>5'</u>	

Drilling Information				Sample Quality				Sample Description and Classification	Lithologic Type	Remarks
Depth (feet bgs)	Run Number	Run Length (ft) / Recovery (ft)	Penetration Rate (ft/min)	RQD (%)	Fracture Depth (feet)	Fracture Type	Fracture Angle			
14-18	1	5/5	2.75 min per ft. 0.41 ft/min	21-7%	14.5	NF	2°	Light grey finegrained dolomite	Dolomite	Sample ID 82833-MW140014 SD rock in Comb Methanol
					14.6	NF	0°	Sample taken from stained natural fracture surface @ 14.8'	BR	
					15.5	NF	55°	Mud seam darker grey highly fractured, fine and medium grey dolomite		
					15.8	NF		Mud seam, med. grey dolomite		
					16.4	NF	50°	heavily fractured dolomite w fine dark grey mud		
					17.3	NF	0°	Finegrained light grey to med grey dolomite, some color banding/variability but no fractures		
					18	NF	80°	Large mud seam ~ 5 ft of fine mud w/ highly fractured dolomite		
					18.75	NF		deformed + fractured light grey dolomite		

NOTES: _____

ROCK CORING LOG



511 Congress Street, Portland Maine 04101

Project Name: <u>Ace Cleaners</u>		Boring ID: <u>MW14D</u>
Project Location: <u>Brookport NY</u>		Page No. <u>2</u>
Project No.: <u>8631206125.02</u>	Client: <u>NYSDEC</u>	of: <u>2</u>
Boring Location: <u>MW14D</u>	Top of Rock: <u>14'</u>	Total Depth: <u>23'</u>
Weather: <u>Sunny 70°F</u>	Casing Depth: <u>14'</u>	Drilling Method: <u>Rotary</u>
Subcontractor: <u>Nathayle</u>	Rock Drilled: <u>9'</u>	Protection Level: <u>Mod D.</u>
Driller: <u>Nathayle</u>	Date Started: <u>08/02/21</u>	Date Completed: <u>08/03/21</u>
Rig Type/Model: <u>Chit</u>	Logged By: <u>BP</u>	Checked By:
Reference Elevation:	Water Level: <u>#8</u>	Time: <u>—</u>
		Core Barrel Type: <u>Diamond</u>
		Core Size: <u>1.5" (NQR)</u>
		Core Length: <u>4"</u>

Drilling Information				Sample Quality				Sample Description and Classification	Lithologic Type	Remarks
Depth (feet bgs)	Run Number	Run Length (ft) / Recovery (ft)	Penetration Rate (ft/min)	RQD (%)	Fracture Depth (feet)	Fracture Type	Fracture Angle			
19.25	2	4/4	0.41 ft/min	47.9%	19.5	NF	0°	Highly fractured dark dolomite w/ light, lateral streaks	BR	
						MF	50°	Mud seam		
								Green + red secondary mineralization observed in fractured dolomite		
								Light gray dolomite		
					21	NF		Mud seam		
								-828133-MW14D021 sog rock / some Mottled		(MERL sample)
								light gray dolomite		
					22	NF	0°			
								dark gray banded w/ light gray dolomite		
					22.5	NF	15°			
								Light gray dolomite w/ ph dark veins		
					22.9	MF				
						MF				

NOTES:

WELL/PIEZOMETER CONSTRUCTION RECORD FLUSHMOUNT

LOCATION ID:

MW14D

Project Name: Aco Cleaners
 Project Location: Brockport NY
 Project Number: 3631206125-02 Task Number 828133
 Subcontractor: Nothnagle Drilling Method: Rotary
 Development Method: Surge + Pump Development Date: 8/4/21
 Bucking Posts/Ballards: None
 Notes: Flush mount bedrock well.

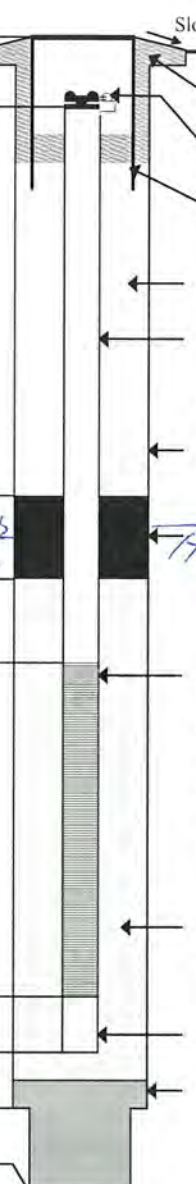
Date Started: 08/03/21 Date Completed: 08/03/21
 Logged By: BP (Ben Paulus)
 Checked By: Handwritten Checked Date: 8/13/21

Measuring Point Information

BGS = Below Ground Surface

Measuring Point (MP) Type: Top Of Riser

MP Elevation (ft): 560.07'

Item	Depth BMP (ft)	Elevation (ft)	Description
Surface Casing Elevation	<u>Flush</u>	<u>559.70'</u>	 Slope Away
Ground Surface Elevation	<u>0'</u>	<u>559.70'</u>	
Riser Pipe (Top)	<u>3'</u>	<u>559.40'</u>	
			Surface Seal Type: <u>Concrete</u>
			Lock Identification: <u>NA</u>
			Stickup Casing Diameter: <u>8"</u>
			Backfill/Grout Type: <u>1/2 2x 94# bag</u>
			Riser Pipe Type: <u>PVC Sch 40</u>
			Riser Pipe ID: <u>2"</u>
			Borehole Diameter: <u>3 7/8"</u>
Top of Well Seal	<u>13' BGS</u>	<u>546.70'</u>	Type of Seal <u>Bedrock</u>
Top of Sand Pack	<u>16' BGS</u>	<u>543.70'</u>	
Top of Screen	<u>17' BGS</u>	<u>542.70'</u>	Screen Type: <u>PVC Sch 40</u>
			Screen ID: <u>2"</u>
			Screen Slot Size: <u>0.010</u>
			Screen Length: <u>5'</u>
Base of Screen	<u>22' BGS</u>	<u>537.70'</u>	Filter/Sand Pack Type: <u>#00 Sand</u>
End Cap	<u>22' BGS</u>	<u>537.70'</u>	Sump: <u>1'</u>
Drilled Depth	<u>23' BGS</u>	<u>536.70'</u>	Fallback/Backfill: <u>1'</u>
Bottom of Exploration	<u>23' BGS</u>	<u>536.70'</u>	
Bedrock Surface	<u>14' BGS</u>	<u>545.70'</u>	

NOT TO SCALE

WELL DEVELOPMENT RECORD



511 Congress Street, Portland Maine 04101

PROJECT NAME <u>ACE Cleaners</u>	
PROJECT NUMBER <u>3616206125.02</u>	
WELL INSTALLATION DATE <u>08/03/21</u>	WELL DEVELOPMENT DATE <u>08/04/21</u>

LOCATION ID <u>MW14D</u>	PAGE <u>1</u> OF <u>1</u>
START TIME <u>0945</u>	START DATE <u>08/04/21</u>
END TIME <u>1300</u>	END DATE <u>08/04/21</u>

WELL DIAMETER <u>2</u> IN	CASING DIAMETER <u>8</u> IN	MEASUREMENT POINT (MP) <u>TOC</u>
INITIAL WELL DEPTH (BMP) <u>21.68</u> FT	FINAL WELL DEPTH (BMP) <u>21.78</u> FT	SCREEN LENGTH <u>5'</u> FT
INITIAL DTW (BMP) <u>7.14</u> FT	SEDIMENT REMOVED <u>.1</u> FT (final well depth - initial well depth)	SCREENED INTERVAL (BMP) <u>22 TO 17</u>
WATER COLUMN <u>14.54</u> FT (initial well depth - initial depth to water)	DTW AFTER DEVELOP. (BMP) <u>14.46</u> FT	PUMPING DEPTH (BMP) <u>21</u> FT
CALCULATED GAL/VOL <u>2.32</u> GAL (column X well diameter squared X 0.041)	FINAL RECOVERY DEPTH (BMP) <u>8.2</u> FT	APPROXIMATE RECHARGE RATE <u>0.44</u> FT/MIN
TOTAL VOL. PURGED <u>36.7</u> GAL (mL per minute X total minutes X 0.00026 gal/mL)	FINAL RECOVERY TIME (elapsed) <u>30</u> MIN	FLUIDS LOST DURING DRILLING <u>200</u> GAL
		PROT. CASING STICKUP (AGS) <u>NA</u> FT
		TOC/TOR DIFFERENCE <u>4.54</u> FT
		PID AMBIENT AIR <u>NM</u> PPM
		PID WELL MOUTH <u>NM</u> PPM
		END OF WELL DEVELOPMENT SAMPLE TAKEN? Y ☐ N ☒

FIELD PARAMETERS

TIME	DTW (ft BMP)	PURGE RATE (mL/min)	TEMP (°C)	SP. CONDUCTANCE (mS/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	VOLUME PURGED (gal)	TOTAL GALLONS	COMMENTS
0950	7.75	200					71000		-	-	
0955	Dry	2000					71000				Considering A to Geopump
1000	18.70	0		NM			NM				Typhoon pump off
1005	16.72	0		BP			NM				"
1015	15.31	250					71000				Restart Typhoon pump
1020	17.45	250					71000				Change to Geopump
1030	16.21	250					71000				
1040	15.45	250					71000				
105	14.43	250					868				
1125	14.24	250					427				
1145	14.43	300					295				
1245	14.46	300					35.5		37	37	

EQUIPMENT DOCUMENTATION

☒ DEDICATED SUBMERSIBLE	☒ WATER LEVEL METER
☐ SURGE BLOCK	PID _____
☐ BAILER	WQ METER _____
☐ 2" ☐	TURB. METER <u>M024-39</u>
☐ GRUNDFOSS	OTHER <u>Geopump 5007-37</u>
☐ 2" ☐ 4"	OTHER _____
☐ OTHER	OTHER _____

WELL DEVELOPMENT CRITERIA

Well water clear to the unaided eye?
Sediment thickness remaining in well <1.0% of screen length?
Total water removed = a minimum of 5x calculated well volumes plus 5x drilling fluids lost?
Turbidity < 5 NTUs?
10% change in field parameters?

Y	N
☒	☒
☒	☒
☒	☒
☒	☒

WAS DEVELOPMENT CRITERIA MET?

Y ☐ N ☒

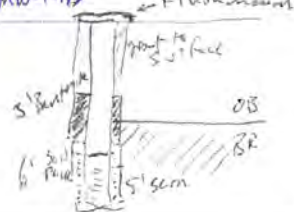
ADDITIONAL OBSERVATIONS

PURGE WATER CONTAINERIZED Y ☒ N ☐ NUMBER OF GALLONS GENERATED 37 gal

NOTES: Surged well w/ submersible pump & pumped dry 3x, switched to geopump to pull water from formation until turbidity was low.

Well Developer Signature: [Signature] Print Name: Ben Paulus
Checked By: [Signature] Date: 08/04/21

SKETCH MW-14D



WELL DEVELOPMENT RECORD

SOIL BORING LOG



511 Congress Street, Portland Maine 04101

Project Name: <u>Ace Cleaners</u>	Boring ID: <u>MW113</u>
Project Location: <u>Brockport NY</u>	Page No. <u>1</u>
Project No.: <u>3616306125</u>	Client: <u>NYSDEC</u>
of: <u>1</u>	
Boring Location: <u>MW113</u>	Refusal Depth: <u>12'</u>
Weather: <u>Sunny 70°F</u>	Soil Drilled: <u>12'</u>
Subcontractor: <u>Nothnagle</u>	Drilling Method: <u>Direct Push</u>
Driller: <u>Nothnagle</u>	Protection Level: <u>Mod D</u>
Rig Type/Model: <u>CME</u>	Date Started: <u>08/03/21</u>
Reference Elevation: <u>-</u>	Date Completed: <u>08/03/21</u>
	Logged By: <u>BP</u>
	Checked By: <u>GR 8/3/21</u>
	Water Level: <u>7.5'</u>
	Time: <u>-</u>

Drilling Information					Sample Information			Sample Description and Classification	USCS Classification	Remarks
Depth (feet bgs)	Sample Number	Penetration (ft) / Recovery (ft)	Blow Counts	N Value	PID Field Screening (ppm)	PID Head Space Reading (ppm)	Analytical Sample Depth (ft)			
0-1								Surface, fill		
1-2		4/3						Med brown sandy silt	SM	
2-3					0			Silty sand w/ gravel 2-1ft 3"	SW	
3-4					0			Silty gravelly Sand		
4-5					0			Red Sandy Silt	SM	
5-6		4/3			0.6		6'	5.5' PID 0.6 ppm		828133-MW113006
6-7					0.6			6.5' Red Shale clay 2" thick	CL	
7-8					0.1			6.7' Saturated Sandy silt	SM	
8-9					0			7-8' Saturated gravelly Silty sand	SW	
9-10					0.4		9'	red brown clayey silt wet	SM	
10-11		4/3.75						dark brown silt @ 9'	SM	828133-MW113007
11-12								coarse gravel w/ sand	GW	
								Saturated ^{light brown} Silty Sand	SM	
								1" coarse yellow sand & gravel	SW	
								Bottom of boring = 12' BGS		

NOTES:

WELL/PIEZOMETER CONSTRUCTION RECORD FLUSHMOUNT

LOCATION ID:

MW 113

Project Name: Lee Cleaners Site # 828133

Date Started: 08/03/21 Date Completed: 02/03/21

Project Location: Brockport NY

Logged By: BP (Ben Paulus)

Project Number: 366306125.02

Task Number: 828133.02

Checked By: Ravalli

Checked Date: 8/13/21

Subcontractor: Northgate

Drilling Method: Direct Flush

Development Method: None

Development Date: NA

Bucking Posts/Ballards: NA

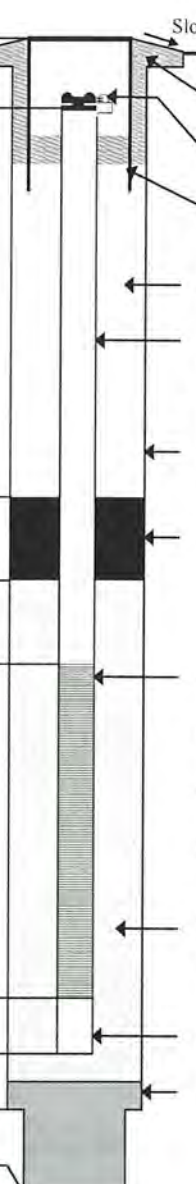
Notes: Micro well for injection influence test

Measuring Point Information

(BGS) Below Ground Surface

Measuring Point (MP) Type: Top Of Riser

MP Elevation (ft): 559.36'

Item	Depth BMP (ft)	Elevation (ft)	Description
Surface Casing Elevation	<u>0</u>	<u>559.36'</u>	 Slope Away Surface Seal Type: <u>Concrete</u> Lock Identification: <u>NA</u> Stickup Casing Diameter: <u>5"</u> Backfill/Grout Type: <u>Bentonite</u> Riser Pipe Type: <u>Sch 40 PVC</u> Riser Pipe ID: <u>1"</u> Borehole Diameter: <u>2.5"</u> Type of Seal: <u>Bentonite</u> Screen Type: <u>Sch 40 PVC</u> Screen ID: <u>0.875" 1"</u> Screen Slot Size: <u>0.010"</u> Screen Length: <u>10'</u> Filter/Sand Pack Type: <u>#00 Sand</u> Sump: Fallback/Backfill: <u>0</u>
Ground Surface Elevation	<u>0</u>	<u>559.36'</u>	
Riser Pipe (Top)	<u>0.3 BGS</u>	<u>559.06'</u>	
Top of Well Seal	<u>Ground Surface</u>	<u>559.36'</u>	
Top of Sand Pack	<u>0.3' BGS</u>	<u>558.36'</u>	
Top of Screen	<u>2' BGS</u>	<u>557.36'</u>	
Base of Screen	<u>12' BGS</u>	<u>547.36'</u>	
End Cap	<u>12' BGS</u>	<u>547.36'</u>	
Drilled Depth	<u>12' BGS</u>	<u>547.36'</u>	
Bottom of Exploration	<u>12' BGS</u>	<u>547.36'</u>	
Bedrock Surface	<u>13' BGS</u>	<u>546.36'</u>	

NOT TO SCALE



511 Congress Street, Portland Maine 04101

WELL/PIEZOMETER CONSTRUCTION RECORD - FLUSHMOUNT

SOIL BORING LOG



511 Congress Street, Portland Maine 04101

Project Name: <i>Ace Cleaners</i>	Boring ID: <i>MW114</i>
Project Location: <i>Brockport NY</i>	Page No. <i>1</i>
Project No.: <i>366306125</i>	Client: <i>NYSDEC</i>
Refusal Depth: <i>13'</i>	Total Depth: <i>12</i>
Soil Drilled: <i>13'</i>	Drilling Method: <i>Dir. Push</i>
Rock Drilled: <i>0'</i>	Protection Level: <i>Med D.</i>
Date Started: <i>08/03/21</i>	Date Completed: <i>08/03/21</i>
Logged By: <i>BP</i>	Checked By: <i>HRaulf/08/12/21</i>
Water Level: <i>8'</i>	Time: <i>—</i>

Boring Location: <i>MW114</i>	Refusal Depth: <i>13'</i>	Total Depth: <i>12</i>	Bore Hole OD: <i>2.5</i>
Weather: <i>Sunny 70°F</i>	Soil Drilled: <i>13'</i>	Drilling Method: <i>Dir. Push</i>	Casing Size: <i>N/A</i>
Subcontractor: <i>Northrup</i>	Rock Drilled: <i>0'</i>	Protection Level: <i>Med D.</i>	Sampler: <i>Dual Tube</i>
Driller: <i>Northrup</i>	Date Started: <i>08/03/21</i>	Date Completed: <i>08/03/21</i>	Sampler ID/OD: <i>1-25/2.5</i>
Rig Type/Model: <i>CME</i>	Logged By: <i>BP</i>	Checked By: <i>HRaulf/08/12/21</i>	
Reference Elevation:	Water Level: <i>8'</i>	Time: <i>—</i>	

Drilling Information					Sample Information		Sample Description and Classification	USCS Classification	Remarks
Depth (feet bgs)	Sample Number	Penetration (ft) / Recovery (ft)	Blow Counts	N Value	PID Field Screening (ppm)	PID Head Space Reading (ppm)	Analytical Sample Depth (ft)		
0-1									Fill, chunks of asphalt
1-2		4/3.5							Sandy silt med brown some small gravel
2-3					.02 @ 33"				Med brown sandy silt
3-4									Med brown moist silt
4-8		4/2			.1 @ 58"				.5" thick coarse sand lense
4-5					.2 @ 61"				Yellow staining in silt @ 61"
5-6					.2 @ 66"				Coarse gravelly sand 1" thick
6-7									Moist red brown silt
7-9									Wet red brown silt see gravel
9-12		4/3			.6 @ 103"				discolored brown lense high
8-9					.2 @ 106"				PID reading some organic matter
4-10									Coarse white sand
10-11									Saturated clayey silt
11-12									sm coarse sand 1" lense
12-13									Saturated clayey
17-13					.4 @ 130"				Silt
16									1" coarse sand compacted

828/33 MW114 009

NOTES:

WELL/PIEZOMETER CONSTRUCTION RECORD FLUSHMOUNT

LOCATION ID:

MW-114

Project Name: Acc Cleaners Site # 828133
 Project Location: Brookport NY
 Project Number: 3616206125-02 Task Number: 828133-02
 Subcontractor: Nothing Drilling Method: Direct Push
 Development Method: None Development Date: NA
 Bucking Posts/Ballards: NA
 Notes: Micro well for injection influence test

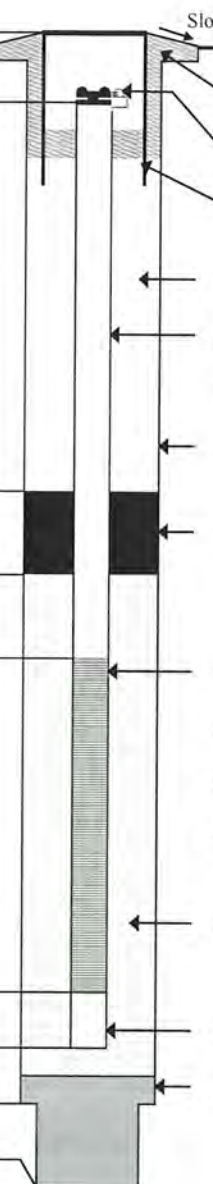
Date Started: 08/03/21 Date Completed: 08/03/21
 Logged By: BP (Ben Paulus)
 Checked By: JHull Checked Date: 8/13/21

Measuring Point Information

BGS = Below Ground Surface

Measuring Point (MP) Type: Top Of Riser

MP Elevation (ft): 559.04'

Item	Depth BMP (ft)	Elevation (ft)	Description
Surface Casing Elevation	<u>0'</u>	<u>558.80'</u>	 Slope Away Surface Seal Type: <u>Concrete</u> Lock Identification: <u>NA</u> Stickup Casing Diameter: <u>5"</u> Backfill/Grout Type: <u>Bentonite</u> Riser Pipe Type: <u>PVC Sch 40</u> Riser Pipe ID: <u>1"</u> Borehole Diameter: <u>2.5"</u> Type of Seal: <u>Bentonite</u> Screen Type: <u>Sch 40 TUC</u> Screen ID: <u>1"</u> Screen Slot Size: <u>0.010"</u> Screen Length: <u>10'</u> Filter/Sand Pack Type: <u>#00 Sand</u> Sump: Fallback/Backfill: <u>01</u>
Ground Surface Elevation	<u>0'</u>	<u>558.80'</u>	
Riser Pipe (Top)	<u>0.2' BGS</u>	<u>559.78'</u>	
Top of Well Seal	<u>Ground Surface</u>	<u>558.80'</u>	
Top of Sand Pack	<u>0.5' BGS</u>	<u>557.80'</u>	
Top of Screen	<u>3' BGS</u>	<u>555.80'</u>	
Base of Screen	<u>13' BGS</u>	<u>545.80'</u>	
End Cap	<u>13' BGS</u>	<u>545.80'</u>	
Drilled Depth	<u>13' BGS</u>	<u>545.80'</u>	
Bottom of Exploration	<u>13' BGS</u>	<u>545.80'</u>	
Bedrock Surface	<u>13' BGS</u>	<u>545.80'</u>	

NOT TO SCALE

LOW FLOW GROUNDWATER SAMPLING RECORD

wood.

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME <u>Ace Cleaners</u>	
PROJECT NUMBER <u>3616206125.02</u>	
SAMPLE ID <u>828133-6W014010</u>	SAMPLE TIME <u>1050</u>

LOCATION ID <u>828133</u>	DATE <u>03/03/21</u>
START TIME <u>1056</u>	END TIME <u>1146</u>
SITE NAME/INSTALLATION <u>Ace Cleaners</u>	PAGE <u>1</u> OF <u>1</u>

WELL DIAMETER (IN.) ☒ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☒ OTHER 1.7

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

YES	NO	N/A
☒	☐	☐
☒	☐	☐
☒	☐	☐

INITIAL DTW (BMP) <u>5.85</u> FT	FINAL DTW (BMP) <u>9.96</u> FT	PROT. CASING STICKUP (AGS) <u>NA</u> FT	TOC/TOR DIFFERENCE <u>4"</u> FT
WELL DEPTH (BMP) <u>13.5</u> FT	SCREEN INTERVAL <u>3.5-13.5</u> FT	PID AMBIENT AIR <u>NA</u> PPM	REFILL TIMER SETTING <u>NA</u> SEC
WATER COLUMN <u>7.65</u> FT	DRAWDOWN VOLUME (final DTW - initial DTW X well diam. squared X 0.041) <u>0.164</u> GAL	PID WELL MOUTH <u>NA</u> PPM	DISCHARGE TIMER SETTING <u>NA</u> SEC
CALCULATED GAL/VOL (water column X well diameter squared X 0.041) <u>0.314</u> GAL	TOTAL VOL. PURGED <u>1.56</u> GAL	DRAWDOWN/ TOTAL PURGED <u>1.56</u>	PRESSURE TO PUMP <u>NA</u> PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1056	BEGIN PURGING									
1056	8.51	325	15.35	2.298	88.38.83	6.8	-27.6	24.5	12'	
1101	4.91	200	15.61	2.231	4.60	6.79	-35.7	120	12'	
1106	9.95	190	15.66	2.185	3.19	6.70	-31.8	60.6		
1111	4.95	190	16.05	2.187	2.60	6.67	-23.2	391		Turbidity from agitator
1116	9.96	190	16.24	2.142	2.22	6.67	-18.9	2.12		More indicative of true turb.
1121	9.96	190	16.40	2.082	2.03	6.67	-11.5	1.98		
1126	9.96	190	16.51	2.050	1.94	6.68	-5.4	0.77		
1131	9.96	120	16.57	2.018	1.94	6.69	-2.5	1.48		
1136	9.96	120	16.64	2.007	1.91	6.69	-5.7	2.66		
1141	9.96	120	16.64	2.996	1.96	6.70	9.8	2.65		
1146	9.96	120	16.70	1.990	1.99	6.70	11.8	2.66		

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

17	1.99	2.0	6.7	12	2.7
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TEMP. nearest degree (ex. 10.1 = 10)
COND. 3 significant figure max (ex. 1.686 = 1.69)
pH. nearest tenth (ex. 5.33 = 5.3)
DO. nearest tenth (ex. 3.51 = 3.5)
TURB. 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP. 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP		DECON FLUIDS USED		TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED	
☒ PERISTALTIC	☒ ALCONOX	☒ SILICON TUBING	☒ S. STEEL PUMP MATERIAL	☒ WL METER	<u>M200-75</u>	☒ PID	<u>M015-07 YSF</u>
☐ SUBMERSIBLE	☒ DEIONIZED WATER	☒ HDPE TUBING	☐ PVC PUMP MATERIAL	☒ WQ METER	<u>M015-07 YSF</u>	☒ TURB. METER	<u>M024-37 HAN</u>
☐ BLADDER	☐ POTABLE WATER	☐ LDPE TUBING	☐ GEOPROBE SCREEN	☒ PUMP	<u>5008-37</u>	☐ OTHER	
☐ WATERA	☐ NITRIC ACID	☐ OTHER	☐ OTHER	☐ FILTERS	NO. _____	☐ TYPE	
☐ OTHER	☐ HEXANE	☐ OTHER	☐ OTHER				
☐ OTHER	☐ METHANOL						
	☐ OTHER						

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒ VOL	82603		NO	HCl	40 mL	NO
☒ MNA	60101	TOC		H ₂ SO ₄	40 mL	
☒ Microbial	SM4500.2	Fe Mn		HNO ₃	125 mL	
	300	Sulfide		ZnAcet/HNO ₃	500 mL	
	RSK175	Chloride/Nitrate/Sulfate		H ₂ SO ₄	125 mL	
	SM23203	Meth/Phos/Lik/Alat		HCl	40 mL	
		all		None	125 mL	

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED	☒ YES ☐ NO	NUMBER OF GALLONS GENERATED	<u>1.56</u>
NO-PURGE METHOD UTILIZED	☐ YES ☒ NO		

NOTES

None

DEVIATIONS FROM THE WORK PLAN

None

Sampler Signature: [Signature]

Print Name: Ben Paulus

Checked By: [Signature]

Date: 03/13/21

wood.

PROJECT NAME <i>Ace Cleaner</i>	
PROJECT NUMBER <i>36620C125.02</i>	
SAMPLE ID <i>B28133-MW/13 011</i>	SAMPLE TIME <i>1520</i>

LOCATION ID M1113	DATE 08/03/21
START TIME 1505	END TIME 1555
SITE NAME/INSTALLATION # Acceclean	PAGE 1 OF 1

	YES	NO	N/A
CAP	<u>X</u>		
CASING	<u>X</u>		
LOCKED		<u>X</u>	
COLLAR		<u>X</u>	

PRESSURE TO PUMP	NA	PS
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[illegible]

17	1.80	4.8	6.9	-230	240.13
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TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

TYPE OF PUMP		DECON FLUIDS USED	
☒	PERISTALTIC	☒	ALCONOX
☐	SUBMERSIBLE	☐	DEIONIZED WATER
☐	BLADDER	☒	POTABLE WATER
☐	WATERA	☐	NITRIC ACID
☐	OTHER	☐	HEXANE
☐	OTHER	☐	METHANOL
		☒	OTHER <i>As directed</i>

S. STEEL PUMP MATERIAL
PVC PUMP MATERIAL
GEOPROBE SCREEN
OTHER _____
OTHER _____
OTHER _____

EQUIPMENT USED	
X	WL METER <u>M 200-75</u>
	PID
X	WQ METER <u>M 15-07</u>
X	TURB. METER <u>M 10 24-39</u>
X	PUMP <u>C 2008-37</u>
	OTHER
	FILTERS NO. TYPE

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
✓	VOC	8260	VOC	No	HCl	40 ml	Yes
✓	MNA	5310C	TOC		H ₂ SO ₄	40 ml	No
		6010C	Fe/Mn		HNO ₃	125 mL	
		SM 4500-82	Sulfide		Zn acet + NaOH	500 mL	
		300	Chloride Nitrate SO ₄		H ₂ SO ₄	125 ml	
		RSK 175	MEE		HCl	40 ml	
		SM 2320 B	Alk		None	125 ml	

PURGE WATER	YES	NO
CONTAINERIZED	☒	☐
NO-PURGE METHOD	YES	NO
UTILIZED	☐	☐

NUMBER OF GALLONS GENERATED 0.6

NOTES
Not intended to be a full low flow procedure.
Grab sample taken immediately following well install
for initial sampling parameters

DEVIATIONS FROM THE WORK PLAN

Checked By:

Date _____

LOW FLOW GROUNDWATER SAMPLING RECORD

wood.

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME <i>Ace Cleaners</i>	
PROJECT NUMBER <i>3616206125</i>	
SAMPLE ID <i>NA</i>	SAMPLE TIME <i>NA</i>

LOCATION ID <i>MW113</i>	DATE <i>08/05/21</i>
START TIME <i>1045</i>	END TIME <i>1125</i>
SITE NAME/INSTALLATION <i>Ace Cleaners</i>	PAGE <i>1 OF 1</i>

WELL DIAMETER (IN.) ☒ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ☒ OTHER *1.7*

TUBING ID (INCHES) ☐ 1/8 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☒ OTHER *1.7*

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	☒	☐	☐
CASING	☐	☒	☐
LOCKED	☐	☒	☐
COLLAR	☒	☐	☐

INITIAL DTW (BMP) <i>NM</i> FT	FINAL DTW (BMP) <i>NM</i> FT	PROT. CASING STICKUP (AGS) <i>NA</i> FT	TOC/TOR DIFFERENCE <i>2.5</i> FT
WELL DEPTH (BMP) <i>12'</i> FT	SCREEN INTERVAL <i>12-2</i> FT	PID AMBIENT AIR <i>NA</i> PPM	REFILL TIMER SETTING <i>NA</i> SEC
WATER COLUMN <i>NM</i> FT	DRAWDOWN VOLUME (final DTW - initial DTW X well diam. squared X 0.041) <i>NM</i> GAL	PID WELL MOUTH <i>NA</i> PPM	DISCHARGE TIMER SETTING <i>NA</i> SEC
CALCULATED GAL/VOL <i>NM</i> GAL (water column X well diameter ² X 0.041)	TOTAL VOL. PURGED <i>NM</i> GAL (mL per minute X total minutes X 0.00026 gal/mL)	DRAWDOWN/ TOTAL PURGED <i>NM</i>	PRESSURE TO PUMP <i>NA</i> PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	ORP REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
BEGIN PURGING										
1045		300	14.7	1.694	3.7		78.2	60.2	~11'	
1053			14.6	1.701	2.18	6.81	56	60.3		
1055			14.6	1.703	6.68	6.81	43	60.1		
1100			14.6	1.701	1.5	3.8	35	62.4		
1105			14.65	1.694	1.29	-	21	63.3		
1120			14.66	1.695	1.70	-	4.3	69.8		
1125			14.66	1.697	1.11	-	-3.3	123		Influence showing -

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

15 1.697 1.1 6.8 -3.3 120

TEMP: nearest degree (ex. 10.1 = 10)
COND: 3 significant figures max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.52 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS	EQUIPMENT USED
☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER ☐ WATERA ☐ OTHER ☐ OTHER	☒ ALCONOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER	☒ SILICON TUBING ☒ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER	☒ S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ OTHER ☐ OTHER ☐ OTHER
			☒ WL METER ☐ PID ☒ WQ METER <i>YSI 556 MMS</i> ☒ TURB. METER <i>HANIT 2103 W</i> ☒ PUMP ☐ OTHER ☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO-PURGE METHOD UTILIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED *25*

NOTES

Injection - ROI test. Not intended as sampling or dev't, meant to monitor injection of SRS until seen in well

DEVIATIONS FROM THE WORK PLAN

Sampler Signature: *[Signature]* Print Name: *Bou Paulis*

Checked By: *[Signature]* Date: *8/13/21*

None

wood.

PROJECT NAME <i>Acc Clearers</i>	
PROJECT NUMBER <i>3616 306125⁷⁵⁰ 3618206175.02</i>	
SAMPLE ID <i>528153 11W/14012</i>	SAMPLE TIME <i>1450</i>

LOCATION ID MW114	DATE 08/03/12
START TIME 1420	END TIME 1515
SITE NAME/INSTALLATION # Ace cleaner	PAGE 1 OF 1

WELL INTEGRITY		
YES	NO	N/A

PRESSURE	NA
----------	----

PRESSURE	NA
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[illegible]

	16	1.90	1.5	7.0	-280	413
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TYPE OF PUMP		DECON FLUIDS USED		TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED	
☒	PERISTALTIC	☐	ALCONOX	☐	S. STEEL PUMP MATERIAL	☐	WL METER <u>M 200 - 75</u>
☐	SUBMERSIBLE	☐	ALCONOX	☐	PVC PUMP MATERIAL	☐	PID
☐	BLADDER	☐	DEIONIZED WATER	☐	GEOPROBE SCREEN	☐	WQ METER <u>M 05 - 07 452</u>
☐	WATER	☒	POTABLE WATER	☐	OTHER	☐	TURB. METER <u>M 024 - 39 11411</u>
☐	OTHER	☐	NITRIC ACID	☐	OTHER	☐	PUMP <u>S 008 - 37</u>
☐	OTHER	☐	HEXANE	☐	OTHER	☐	OTHER
		☐	METHANOL				FILTERS NO. TYPE
		☐	OTHER				

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
✓	VOC	8260	VOC	NO	HCl	40 ml	NO
✓	MMA	5310C	TOC		H ₂ SO ₄	40 ml	
		6010C	Fe, Mn		HNO ₃	125 ml	
		SM 50052	Sulfide		Zn acet + NaOH	500 ml	
		300	Chloride (Al) + Trade (SO ₄)		H ₂ SO ₄	125 ml	
		QSK175	MEE		HCl	40 ml	
		SM 73203	Alk		Name	125 ml	

PURGE WATER CONTAINERIZED	YES ☒	NO ☐	NUMBER OF GALLONS GENERATED	1.17
NO-PURGE METHOD UTILIZED	YES ☐	NO ☒		

Not intended for full flow procedures,
Grab sample to be done immediately following micro
well completion for sampling initial parameters

Sampler Signature: Print Name: Ben Paulus
Checked By: Date: 8/13/21

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	
Ace Cleaners Remedial Investigation	
PROJECT NUMBER	
3616206125.02	
SAMPLE ID	SAMPLE TIME
825/33-GW14-00421	1345

LOCATION ID 6214	DATE 10/9/21
START TIME 1:30	END TIME 1450
SITE NAME/INSTALLATION Ace Cleaners	PAGE 1 OF 1

(water column X well diameter² X 0.041)

PRESSURE TO PUMP	NA
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FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)				

[illegible]

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP		DECON FLUIDS USED	
☒	PERISTALTIC	☒	ALCONOX
☐	SUBMERSIBLE	☐	DEIONIZED WATER
☐	BLADDER	☒	POTABLE WATER
☐	WATTERA	☐	NITRIC ACID
☐	OTHER	☐	HEXANE
☐	OTHER	☐	METHANOL
☐		☐	OTHER

TUBING/PUMP/BLADDER MATERIALS

TUBING/PUMP/BLADDER MATERIALS	
X	SILICON TUBING
X	HDPE TUBING
	LDPE TUBING
	OTHER _____
	OTHER _____

	S. STEEL PUMP MATERIAL
	PVC PUMP MATERIAL
	GEOPROBE SCREEN
	OTHER _____
	OTHER _____
	OTHER _____

EQUIPMENT USED

EQUIPMENT USED	
X	WL METER <u>M200-76</u>
	PID
X	WQ METER <u>M015-01</u>
X	TURB. METER <u>M024-41</u>
X	PUMP <u>3008-41</u>
	OTHER
	FILTERS NO. TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
VOC	8260	<i>See Loc</i>	N	HCl	9x40mL	<i>MS/MSD</i>
Diss Gasses	RSK-175	Methane Ethane Ethene	N		3x40mL	
Fe/Mn	6010d	<i>Fe/Mn</i>	N	<i>HNO3</i>	1x105mL	
Cl <i>11/13/80</i>	<i>Sum 650</i>	<i>SO4 No3</i>	N	<i>4°C</i>	1x125mL	
Alk	<i>SM 2320</i>	<i>Co</i>	N	<i>4°C</i>	1x125mL	
Sulfide <i>ale</i>	300	<i>SO3</i>	N	<i>Zn Ace Med</i>	1x500mL	
Ammonia-Nitrogen	350		N			
Nitrate	SM 4500		N			
TOC	415	<i>TOC</i>	N	<i>H2SO4</i>	3x40mL	
Microbes	<i>Quantitray</i>	<i>DHc</i>	N	<i>4°C</i>	1L	
			N			

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED	YES ☒	NO ☐	NUMBER OF GALLONS GENERATED
NO-PURGE METHOD UTILIZED	YES ☐	NO ☒	

NOTES

Well pumped dry during purging
Allowed to recharge then sampled

DEVIATIONS FROM THE WORK PLAN

well purged dry rather than low flow
Sample

Sampler Signature: [Signature] Print Name: Ben Paulus
Checked By: [Signature] Date: 1/23/21

wood.

511 Congress Street
Suite 200
Portland, Maine 04101

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Ace Cleaners Remedial Investigation

PROJECT NUMBER
3616206125.02

SAMPLE ID
829133-GW14D-100421

SAMPLE TIME
1325

LOCATION ID
G.W. 14D

DATE
10/14/21

START TIME
1225

END TIME
1345

SITE NAME/INSTALLATION
Ace Cleaners

PAGE
1 OF 1

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES) ☒ 1/8 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ☒ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

YES	NO	N/A
☒	☐	☐
☒	☐	☐
☒	☐	☐

INITIAL DTW (BMP) 8.20 FT FINAL DTW (BMP) 8.74 FT PROT. CASING STICKUP (AGS) — FT

WELL DEPTH (BMP) 81.89 FT SCREEN INTERVAL NR FT PID AMBIENT AIR NA PPM

WATER COLUMN 13.69 FT DRAWDOWN VOLUME 0.89 GAL PID WELL MOUTH NA PPM

CALCULATED GALVOL 7.25 GAL TOTAL VOL. PURGED 2.577 GAL DRAWDOWN/TOTAL PURGED 0.31

(water column X well diameter² X 0.041) (mL per minute X total minutes X 0.00026 gal/mL)

TOC/TOR DIFFERENCE .45 FT

REFILL TIMER SETTING NA SEC

DISCHARGE TIMER SETTING NA SEC

PRESSURE TO PUMP NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1225	BEGIN PURGING									
1235	8.70	225	14.20	2.693	9.44	7.09	27.3	56.3	20'	none
1240	8.76	220	14.07	2.683	4.20	7.09	28.9	26.0		
1245	8.75		14.16	2.681	4.09	7.10	31.5	19.1		
1250	8.74		14.23	2.675	1.74	7.15	31.6	21.7		
1255	8.74		14.25	2.659	1.75	7.18	27.6	19.6		
1300	8.74		14.17	2.659	1.13	7.20	24.8	7.60		
1305	8.74		14.17	2.657	0.99	7.22	23.3	10.04		
1310	8.74		14.15	2.655	0.93	7.22	24.3	6.59		
1315	8.74		14.11	2.655	0.93	7.23	27.1	11.11		
1320	8.74		14.03	2.656	0.91	7.24	28.3	4.19		

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

14 2.66 0.9 7.2 28 4.2

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: ☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER ☐ WATER ☐ OTHER

DECON FLUIDS USED: ☒ ALCONOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS: ☒ SILICON TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER

EQUIPMENT USED: ☒ WL METER M200-76 ☐ PID ☒ WQ METER M085-01 ☒ TURB. METER 44.0234-41 ☒ PUMP 3008-41 ☐ OTHER ☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
VOC	8260	See Coc	N	HCl	3x40mL	none
Diss Gasses	RSK-175	Methane Ethane Ethene	N	HCl	3x40mL	
Fe/Mn	6010d	Fe/Mn	N	HNO ₃	125mL	
Cl/NO ₃ /NO ₂	SM 450	SO ₄ /NO ₃	N	4°C	125mL	
Alk	SM 2320	Alk	N	4°C	125mL	
Sulfide	300	SO ₃	N	Zn Acetate	500mL	
Ammonia-Nitrogen	350		N			
Nitrate	SM 4500		N			
TOC	415	TOC	N	H ₂ SO ₄	3x40mL	
Microbes	Quant Array	DHC	N	4°C	1L	

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES ☒ NO ☐

NO-PURGE METHOD UTILIZED: YES ☐ NO ☒

NUMBER OF GALLONS GENERATED: 2.87

NOTES

Turb bounces around, assumed b/c of rain + humidity in jar

DEVIATIONS FROM THE WORK PLAN

None

Sampler Signature: [Signature] Print Name: Ben Paulus

Checked By: [Signature] Date: 11/23/21

LOW FLOW GROUNDWATER SAMPLING RECORD

wood.

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME Ace Cleaners Remedial Investigation	
PROJECT NUMBER 3616206125.02	
SAMPLE ID 828/33-MW13-100421	SAMPLE TIME 0910

LOCATION ID MW13	DATE 10/4/21
START TIME 0900	END TIME 0915
SITE NAME/INSTALLATION Ace Cleaners	PAGE 1 OF 1

WELL DIAMETER (IN.) ☒ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☒ 1/8 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ☒ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP	☒	☐	☐
CASING	☒	☐	☐
LOCKED	☒	☐	☐
COLLAR	☒	☐	☐

INITIAL DTW (BMP) 6.33 FT	FINAL DTW (BMP) 9.36 FT	PROT. CASING STICKUP (AGS) — FT	TOC/TOR DIFFERENCE .15 FT
WELL DEPTH (BMP) 11.79 FT	SCREEN INTERVAL 12-2 FT	PID AMBIENT AIR NA PPM	REFILL TIMER SETTING NA SEC
WATER COLUMN 5.46 FT	DRAWDOWN VOLUME (final DTW - initial DTW X well diam. squared X 0.041) 0.12 GAL	PID WELL MOUTH NA PPM	DISCHARGE TIMER SETTING NA SEC
CALCULATED GAL/VOL (water column X well diameter ² X 0.041) .22 GAL	TOTAL VOL. PURGED 2.24 GAL	DRAWDOWN/ TOTAL PURGED 0.53	PRESSURE TO PUMP NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
810	BEGIN PURGING									
820	2.09	200	16.52	1.841	4.82	6.51	137.2	24.1	9.5	Pump turned down
825	9.27	175	16.43	1.843	4.95	6.54	138.2	161		Noise
830	9.27	175	16.39	1.843	4.91	6.56	132.7	83.9		
835	9.60	175	16.32	1.841	4.44	6.58	132.0	70.2		big WL decrease w/ adjusted pump depth ~ 6'
840	9.24	175	16.31	1.841	4.38	6.57	136.9	55.1	10	
845	9.27	175	16.28	1.843	3.36	6.59	137.8	28.9		
850	9.29	175	16.30	1.844	2.51	6.59	135.8	11.5		
855	9.29	175	16.29	1.843	2.11	6.60	135.2	9.5		
890	9.31	175	16.29	1.842	1.89	6.61	136.7	70.1		Pump slipped & bumped 100%
895	9.35	175	16.30	1.842	1.99	6.62	137.4	45.1		
0910	Sample to Lab									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

16	1.84	1.9	6.6	140	45.1
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TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP		DECON FLUIDS USED		TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED	
☒ PERISTALTIC	☒ ALCONOX	☒ SILICON TUBING	☒ S. STEEL PUMP MATERIAL	☒ WL METER	M200-76		
☐ SUBMERSIBLE	☒ DEIONIZED WATER	☒ HDPE TUBING	☐ PVC PUMP MATERIAL	☐ PID			
☐ BLADDER	☐ POTABLE WATER	☐ LDPE TUBING	☐ GEOPROBE SCREEN	☒ WQ METER	H015-9		
☐ WATERA	☐ NITRIC ACID	☐ OTHER	☐ OTHER	☒ TURB. METER	M229-41		
☐ OTHER	☐ HEXANE	☐ OTHER	☐ OTHER	☒ PUMP	3008-41		
☐ OTHER	☐ METHANOL	☐ OTHER	☐ OTHER	☐ OTHER			
	☐ OTHER			☐ FILTERS	NO. TYPE		

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
VOC	8260	See Work Plan	N	HCl	3x40mL	None
Diss Gases	RSK-175	Methane Ethane Ethene	N	HCl	3x40mL	
Fe/Mn	6010d	Fe, Mn	N	HNO ₃	125mL	
Cl	SM 4500	Cl, SO ₄ , NO ₃	N	4°C	125mL	
Alk	SM 2320	Alk	N	4°C	125mL	
Sulfide	300	SO ₃	N	Enket-NaO	500mL	
Ammonia-Nitrogen	350		N			
Nitrate	SM 4500		N			
TOC	415	Tox	N	H ₂ SO ₄	3x40mL	
Microbes	Quanta	DHC	N	4°C	1L	

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO-PURGE METHOD UTILIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED 2.24

NOTES

None

DEVIATIONS FROM THE WORK PLAN

None

Sampler Signature: *[Signature]*

Print Name: Ben Paulus

Checked By: *[Signature]*

Date: 11/23/21

wood.

511 Congress Street
Suite 200
Portland, Maine 04101

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Ace Cleaners Remedial Investigation

PROJECT NUMBER
3616206125.02

SAMPLE ID
828133-MW 114+10042

SAMPLE TIME
1125

LOCATION ID
MW 114

DATE
10/4/21

START TIME
0955

END TIME
1130

SITE NAME/INSTALLATION
Ace Cleaners

PAGE
1 OF 1

WELL DIAMETER (IN.) ☒ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES) ☒ 1/8 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ☒ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

CAP ☒ YES ☐ NO ☐ N/A

CASING LOCKED ☒ YES ☐ NO ☐ N/A

COLLAR ☒ YES ☐ NO ☐ N/A

INITIAL DTW (BMP) 6.44 FT

WELL DEPTH (BMP) 12.83 FT

WATER COLUMN 5.54 FT

CALCULATED GAL/VOL 0.23 GAL

FINAL DTW (BMP) 11.83 FT

SCREEN INTERVAL 12-2 FT

DRAWDOWN VOLUME 0.22 GAL

TOTAL VOL. PURGED 2.2 GAL

PROT. CASING STICKUP (AGS) FT

PID AMBIENT AIR NA PPM

PID WELL MOUTH NA PPM

DRAWDOWN/TOTAL PURGED 0.1

TOC/TOR DIFFERENCE .25 FT

REFILL TIMER SETTING NA SEC

DISCHARGE TIMER SETTING NA SEC

PRESSURE TO PUMP NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1000	BEGIN PURGING									
1010	10.72	200	16.04	1.335	3.50	6.63	274.0	665	10.75	increase rate
1020	11.72	150	15.91	1.574	3.42	6.71	243.3	746	10.75	Well running dry, decreasing rate
1030	11.74	125	15.97	1.686	3.82	6.75	177.5	612	11.85	pump down
1040	11.82	115	16.08	1.712	4.64	6.76	154.4	341	11.85	pump down
1045	11.83	105	16.09	1.727	4.55	6.77	146.6	113	11.85	wait
1050	11.83		16.12	1.737	4.82	6.77	139.6	44.5		
1055	11.83		16.14	1.748	4.96	6.78	133.6	21.0		
1100	11.85		16.16	1.757	5.07	6.79	130.3	41.2		
1105	11.82		16.16	1.759	4.83	6.80	138.1	21.6		
1110	11.83		16.23	1.764	5.18	6.79	132.6	35.9		
1115	11.83		16.21	1.772	5.37	6.80	131.8	17.6		

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

16 1.77 5.4 6.8 132 17.6

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

PERISTALTIC ☒

SUBMERSIBLE ☐

BLADDER ☐

WATERA ☐

OTHER ☐

DECON FLUIDS USED

ALCONOX ☒

DEIONIZED WATER ☒

POTABLE WATER ☐

NITRIC ACID ☐

HEXANE ☐

METHANOL ☐

OTHER ☐

TUBING/PUMP/BLADDER MATERIALS

SILICON TUBING ☒

HDPE TUBING ☒

LDPE TUBING ☐

OTHER ☐

S. STEEL PUMP MATERIAL ☐

PVC PUMP MATERIAL ☐

GEOPROBE SCREEN ☐

OTHER ☐

OTHER ☐

OTHER ☐

EQUIPMENT USED

WL METER M200-76

PID M015-01

TURB. METER M024-41

PUMP 300-41

OTHER

FILTERS NO. TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
VOC	8260	See GC	N	HCl	3x40ml	DUP
Diss Gases	RSK-175	Methane Ethane Ethene	N	HCl	3x40ml	none
Fe/Mn	6010d	Fe/Mn	N	11003	1x125ml	
Cl 1524/103	SM 4500	SPX 103 CL	N	4°C	1x125ml	
Alk	SM 2320	Alk	N	4°C	1x125ml	
Sulfide	300	SO ₂	N	Exhaust/NaO	1x500ml	
Ammonia-Nitrogen	350		N			
Nitrate	SM 4500		N			
TOC	415	TOC	N	H ₂ SO ₄	SM 4500 3x40ml	
Microbes	Quant Array	DHc	N	4°C	1L	

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO-PURGE METHOD UTILIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED 2.2

NOTES

Well produces very little water

Sampler Signature:

Print Name:

Ben Paulus

Checked By:

Date:

11/23/21

DEVIATIONS FROM THE WORK PLAN

none.

LOW FLOW GROUNDWATER SAMPLING RECORD

wood.

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME Ace Cleaners Remedial Investigation	
PROJECT NUMBER 3616206125.02	
SAMPLE ID 828173-GW141207	SAMPLE TIME 1150

LOCATION ID GW-14	DATE 12/7/21
START TIME 1035	END TIME 1218
SITE NAME/INSTALLATION Ace Cleaners	PAGE 1 OF 1

WELL DIAMETER (IN.) ☒ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ☒ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

YES	NO	N/A
☒	☐	☐
☒	☐	☐
☒	☐	☐

INITIAL DTW (BMP) 4.12 FT	FINAL DTW (BMP) 6.14 FT	PROT. CASING STICKUP (AGS) FLU14 FT	TOC/TOR DIFFERENCE -0.33 FT
WELL DEPTH (BMP) 13.12 FT	SCREEN INTERVAL 10 FT	PID AMBIENT AIR NA PPM	REFILL TIMER SETTING NA SEC
WATER COLUMN 900 FT	DRAWDOWN VOLUME (final DTW - initial DTW X well diam. squared X 0.041) 0.04 GAL	PID WELL MOUTH NA PPM	DISCHARGE TIMER SETTING NA SEC
CALCULATED GAL/VOL 0.36 GAL	TOTAL VOL. PURGED 1.8 GAL	DRAWDOWN/TOTAL PURGED 0.04	PRESSURE TO PUMP NA PSI

(water column X well diameter² X 0.041) (mL per minute X total minutes X 0.00026 gal/mL)

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1044	BEGIN PURGING									
1049	5.28	200	10.45	3.117	11.50	7.03	-63.6	-63.6	12	turn - 7.12
1054	5.14	150	10.14	3.196	4.35	7.02	-50.7	40.1		pH - 7.01
1059	6.41	150	10.04	3.297	2.33	7.02	-51.5	25.0		
1104	6.28	150	9.72	3.482	1.67	7.02	-45.6	18.11		
1109	6.14	150	9.52	3.506	1.61	7.03	-25.5	12.2		
1114	6.14	150	9.43	3.497	1.60	7.04	-15.8	9.41		
1119	6.14	150	9.54	3.493	1.59	7.03	-12.5	5.62		
1124	6.14	150	9.53	3.503	1.50	7.01	-2.6	7.02		
1127	6.14	150	9.51	3.501	1.56	7.04	-1.5	3.28		DO - 1.48
1130	6.14	150	9.52	3.499	1.47	7.04	0.9	3.40		

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

10 3.50 1.5 7.0 0.9 3.4

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP		DECON FLUIDS USED		TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED	
☒ PERISTALTIC	☐ SUBMERSIBLE	☒ ALCONOX	☐ DEIONIZED WATER	☒ SILICON TUBING	☐ HDPE TUBING	☒ S. STEEL PUMP MATERIAL	WL METER In 200-79
☐ BLADDER	☐ WATER	☒ POTABLE WATER	☐ NITRIC ACID	☐ LDPE TUBING	☐ OTHER	☐ PVC PUMP MATERIAL	PID
☐ OTHER	☐ OTHER	☐ HEXANE	☐ METHANOL	☐ OTHER	☐ OTHER	☐ GEOPROBE SCREEN	WQ METER
☐ OTHER	☐ OTHER	☐ OTHER	☐ OTHER	☐ OTHER	☐ OTHER	☐ OTHER	TURB. METER
						☐ OTHER	PUMP
						☐ OTHER	OTHER
						☐ OTHER	FILTERS NO. TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
VOC	8260	See work plan	N	HCl	3x40mL Glass	None
Diss Gasses	RSK-175	Methane Ethane Ethene	N	HCl	3x40mL Glass	
Metals	6010d	Fe, Mn	N	HNO3	1x125mL HDPE	
Cl/SO4/NO3	SM4500	Cl/SO4/NO3	N	4 C	1x125mL HDPE	
Alk	SM2320	CaCO3	N	4 C	1x125mL HDPE	
Sulfide	300	SO3	N	ZnAc+NaO	1x500mL HDPE	
TOC	415	TOC	N	H2SO4	3x40mL Glass	
Microbes	QuantArray	DHe	N	4 C	1x1L HDPE	
			N			

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO-PURGE METHOD UTILIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED 1.8

NOTES

* missing data for well 1, removed to stage 1
PDS sampled in well 1, removed to stage 1

DEVIATIONS FROM THE WORK PLAN

Sampler Signature: [Signature]

Print Name: [Signature]

Checked By: [Signature]

Date: 12/16/21

LOW FLOW GROUNDWATER SAMPLING RECORD

wood.

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME Ace Cleaners Remedial Investigation	
PROJECT NUMBER 3616206125.02	
SAMPLE ID 828133-MW14012	SAMPLE TIME 0721 1000

LOCATION ID MW-140	DATE 12/7/12
START TIME 830	END TIME 1021
SITE NAME/INSTALLATION Ace Cleaners	PAGE 1 OF 1

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ☒ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP) 6.83	FINAL DTW (BMP) 6.64	PROT. CASING STICKUP (AGS) F6311	TOC/TOR DIFFERENCE -0.41
WELL DEPTH (BMP) 21.61	SCREEN INTERVAL 10	PID AMBIENT AIR NA	REFILL TIMER SETTING NA
WATER COLUMN 15.52	DRAWDOWN VOLUME 0.08	PID WELL MOUTH NA	DISCHARGE TIMER SETTING NA
CALCULATED GAL/VOL 2.5	TOTAL VOL. PURGED 2.7	DRAWDOWN/ TOTAL PURGED —	PRESSURE TO PUMP NA

(water column X well diameter² X 0.041) (mL per minute X total minutes X 0.00026 gal/mL)

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
841	BEGIN PURGING									
852	6.53	200	10.62	1.942	6.52	6.95	20.3	2.97	20	
857	6.51	200	10.99	1.842	5.42	6.96	136.4	2.69		
902	6.58	200	11.23	1.793	3.53	6.94	56.9	1.16		
907	6.64	175	11.26	1.766	2.59	6.95	37.2	1.10		
912	6.64	175	11.23	1.749	2.31	6.95	36.3	0.64		
917	6.64	175	11.21	1.749	2.08	6.96	34.7	0.49		
922	6.64	175	11.33	1.751	1.67	6.95	27.8	0.64		
928	6.64	175	11.29	1.766	1.33	6.95	27.4	0.64		
933	6.64	175	11.28	1.772	1.08	6.93	24.5	0.87		
938	6.64	175	11.27	1.755	1.04	6.94	28.4	0.85		
941	6.64	175	11.27	1.777	1.05	6.94	27.0	0.68		

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

11 1.78 1.1 6.9 27 0.7

TEMP: nearest degree (ex. 10.1 = 10)
COND: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP		DECON FLUIDS USED		TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED	
☒ PERISTALTIC	☐ ALCONOX	☒ SILICON TUBING	☐ S. STEEL PUMP MATERIAL	☒ WL METER	MW-71		
☐ SUBMERSIBLE	☐ DEIONIZED WATER	☒ HDPE TUBING	☐ PVC PUMP MATERIAL	☐ PID			
☐ BLADDER	☐ POTABLE WATER	☐ LDPE TUBING	☐ GEOPROBE SCREEN	☒ WQ METER	MOS-500		
☐ WATTEA	☐ NITRIC ACID	☐ OTHER	☐ OTHER	☒ TURB. METER	MOS-500		
☐ OTHER	☐ HEXANE	☐ OTHER	☐ OTHER	☒ PUMP			
☐ OTHER	☐ METHANOL	☐ OTHER	☐ OTHER	☐ OTHER			
	☐ OTHER			☐ FILTERS	NO. TYPE		

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
VOC	8260	See work plan	N	HCl	3x40mL Glass	MOS/MSD
Diss Gases	RSK-175	Methane Ethane Ethene	N	HCl	3x40mL Glass	None
Metals	6010d	Fe, Mn	N	HNO ₃	1x125mL HDPE	
Cl/SO ₄ /NO ₃	SM4500	Cl/SO ₄ /NO ₃	N	4 C	1x125mL HDPE	
Alk	SM2320	CaCO ₃	N	4 C	1x125mL HDPE	
Sulfide	300	SO ₃	N	ZnAcet/NaO	1x500mL HDPE	
TOC	415	TOC	N	H ₂ SO ₄	3x40mL Glass	
Microbes	QuantArray	DHc	N	4 C	1x1L HDPE	
			N			
			N			

PURGE OBSERVATIONS

PURGE WATER YES ☒ NO ☐

CONTAINERIZED YES ☒ NO ☐

NO-PURGE METHOD YES ☐ NO ☒

UTILIZED

NUMBER OF GALLONS GENERATED 2.7

NOTES

See site map

Sampler Signature: [Signature]

Print Name: MHL

Checked By: [Signature]

Date: 12/16/12

DEVIATIONS FROM THE WORK PLAN

wood.

PROJECT NAME	
Ace Cleaners Remedial Investigation	
PROJECT NUMBER	
3616206125.02	
SAMPLE ID	SAMPLE TIME
8289133-MW113-120371	1125

LOCATION ID MW115	DATE 12/7/21
START TIME 1020	END TIME 1130
SITE NAME/INSTALLATION Ace Cleaners	PAGE 1 OF 1

WELL DIAMETER (IN.) ☒ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☒ 1/8 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ☒ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP	☒	☐	☐
CASING	☒	☐	☐
LOCKED	☒	☐	☐
COLLAR	☐	☒	☐

TOC/TOR DIFFERENCE	3 FT
-----------------------	------

REFILL TIMER SETTING	NA	SEC
-------------------------	----	-----

DISCHARGE TIMER SETTING	NA	SEC
----------------------------	----	-----

PRESSURE TO PUMP	NA	PS
---------------------	----	----

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP		DECON FLUIDS USED		TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED	
☒	PERISTALTIC	☒	ALCONOX	☒	SILICON TUBING	☒	WL METER <i>M20069</i>
☐	SUBMERSIBLE	☐	DEIONIZED WATER	☒	HDPE TUBING	☐	PID
☐	BLADDER	☒	POTABLE WATER	☐	LDPE TUBING	☒	WQ METER <i>M01505</i>
☐	WATERA	☐	NITRIC ACID	☐	OTHER	☒	TURB. METER <i>M02928</i>
☐	OTHER	☐	HEXANE	☐	OTHER	☒	PUMP <i>600843</i>
☐	OTHER	☐	METHANOL	☐	OTHER	☐	OTHER
			OTHER				FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒	VOC	8260	See work plan	N	HCl	3x40mL Glass	
☒	Diss Gasses	RSK-175	Methane Ethane Ethene	N	HCl	3x40mL Glass	
☒	Metals	6010d	Fe, Mn	N	HNO3	1x125mL HDPE	
☒	Cl/SO4/NO3	SM4500	Cl/SO4/NO3	N	4 C	1x125mL HDPE	
☒	Alk	SM2320	CaCO3	N	4 C	1x125mL HDPE	
☒	Sulfide	300	SO3	N	ZnAcet+NaO	1x500mL HDPE	
☒	TOC	415	TOC	N	H2SO4	3x40mL Glass	
☒	Microbes	QuantArray	DHe	N	4 C	1x1L HDPE	
				N			

PURGE OBSERVATIONS

PURGE WATER	YES	NO
CONTAINERIZED	☒	☐
NO-PURGE METHOD	YES	NO
UTILIZED	☐	☒

NUMBER OF GALLONS GENERATED 3

NOTES

NOTES Now / back slightly out of stabilization parameters

DEVIATIONS FROM THE WORK PLAN

None

Sampler Signature: 

Print Name: Ben Paulus

Checked By: [Signature]

Date: 12/16/21

LOW FLOW GROUNDWATER SAMPLING RECORD

wood.

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME Ace Cleaners Remedial Investigation	
PROJECT NUMBER 3616206125.02	
SAMPLE ID 828133-MW114-120721	SAMPLE TIME 0945

LOCATION ID MW114	DATE 12/2/21
START TIME 0840	END TIME 1020
SITE NAME/INSTALLATION Ace Cleaners	
PAGE 1 OF 1	

WELL DIAMETER (IN.) ☒ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☒ 1/8 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ☒ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP	☒	☐	☐
CASING	☒	☐	☐
LOCKED	☒	☐	☐
COLLAR	☒	☐	☐

INITIAL DTW (BMP) 3.37 FT	FINAL DTW (BMP) 6.61 FT	PROT. CASING STICKUP (AGS) ✓ FT	TOC/TOR DIFFERENCE .25 FT
WELL DEPTH (BMP) 11.35 FT	SCREEN INTERVAL 10 FT	PID AMBIENT AIR NA PPM	REFILL TIMER SETTING NA SEC
WATER COLUMN 7.98 FT	DRAWDOWN VOLUME (final DTW - initial DTW X well diam. squared X 0.041) 0.13 GAL	PID WELL MOUTH NA PPM	DISCHARGE TIMER SETTING NA SEC
CALCULATED GAL/VOL 0.33 GAL	TOTAL VOL. PURGED 1.91 GAL	DRAWDOWN/ TOTAL PURGED 0.07	PRESSURE TO PUMP NA PSI

(water column X well diameter² X 0.041) (mL per minute X total minutes X 0.00026 gal/mL)

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
0945	BEGIN PURGING 185 mL/min									
0955	5.34	150mL	10.39	2.082	9.87	6.68	241.5	>1000	~10'	Pump down to 150
0905	5.96	150mL	9.97	2.019	8.93	6.70	239.1	222	~10	
0910	6.29	150	9.96	2.011	8.53	6.72	234.3	83.9		
0915	6.41	150	10.01	2.008	8.33	6.73	231.7	86.9		pump down to 100
0920	6.45	100	10.01	2.002	7.90	6.74	221.7	77.0		
0925	6.53	100	10.07	1.989	7.71	6.76	208.5	203		condensation issues w/ temp
0930	6.57	100	10.17	1.963	7.84	6.78	191.2	96.7		
0935	6.54	100	10.10	1.990	7.58	6.78	177.9	139		
0940	6.61	100	10.08	1.9109	7.21	6.80	128.3	122		

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP		DECON FLUIDS USED		TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED	
☒ PERISTALTIC	☒ ALCONOX	☒ SILICON TUBING	☒ S. STEEL PUMP MATERIAL	☒ WL METER	M200 69		
☐ SUBMERSIBLE	☒ DEIONIZED WATER	☒ HDPE TUBING	☐ PVC PUMP MATERIAL	☐ PID			
☐ BLADDER	☐ POTABLE WATER	☐ LDPE TUBING	☐ GEOPROBE SCREEN	☒ WQ METER	M215 95		
☐ WATERA	☐ NITRIC ACID	☐ OTHER	☐ OTHER	☒ TURB. METER	M02 922		
☐ OTHER	☐ HEXANE	☐ OTHER	☐ OTHER	☒ PUMP	800 843		
☐ OTHER	☐ METHANOL	☐ OTHER	☐ OTHER	☐ OTHER			
	☐ OTHER			☐ FILTERS	NO. TYPE		

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
VOC	8260	See work plan	N	HCl	3x40mL Glass	DUP
Diss Gasses	RSK-175	Methane Ethane Ethene	N	HCl	3x40mL Glass	Map
Metals	6010d	Fe, Mn	N	HNO3	1x125mL HDPE	
Cl/SO4/NO3	SM4500	Cl/SO4/NO3	N	4 C	1x125mL HDPE	
Alk	SM2320	CaCO3	N	4 C	1x125mL HDPE	
Sulfide	300	SO3	N	ZnAc+NaO	1x500mL HDPE	
TOC	415	TOC	N	H2SO4	3x40mL Glass	
Microbes	QuantArray	DHc	N	4 C	1x1L HDPE	
			N			
			N			

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO-PURGE METHOD UTILIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED 2

NOTES

None

DEVIATIONS FROM THE WORK PLAN

None

Sampler Signature: *[Signature]*

Print Name: Ben Paulus

Checked By: *[Signature]*

Date: 12/16/21

REV. 3/29/2019

GRAB SAMPLING RECORD - WATER



511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME Ace Cleaners Remedial Investigation	
PROJECT NUMBER 3616206125.02	
SAMPLE ID 828133-6W2012	SAMPLE TIME 0815

LOCATION ID 6W2	DATE 4/6/22
START TIME 0810	END TIME 0820
SITE NAME/INSTALLATION 828133	PAGE 1 OF 1

SAMPLE TYPE: ☒ GROUNDWATER ☐ SURFACE WATER ☐ STORM WATER ☐ DRINKING WATER ☐ PORE WATER ☐ OTHER: _____

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE FAP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS	EQUIPMENT USED
☐ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER ☒ PDB ☐ HYDRASLEEVE ☐ OTHER	☐ ALCONOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER	☐ SILICON TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER	☐ S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ OTHER ☐ OTHER ☐ OTHER
			☐ WL METER ☐ BID ☐ WQ METER ☐ TURB. METER ☐ PUMP ☐ OTHER ☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
VOC	9260	see WP	N	HCl	3x80mL	N

PURGE OBSERVATIONS

PURGE WATER	YES ☒	NO ☐	NUMBER OF GALLONS GENERATED 0
CONTAINERIZED	YES ☒	NO ☐	
NO-PURGE METHOD	YES ☒	NO ☐	
UTILIZED	YES ☒	NO ☐	

NOTES:

No PDB Placed

Sampler Signature: *[Signature]*

Print Name: Ben Paulus

Checked By: Maria Guerra

Date: 4/7/22

DEVIATIONS FROM THE WORK PLAN:

0117 2x40mL

GRAB SAMPLING RECORD - WATER



511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME Ace Cleaners Remedial Investigation	
PROJECT NUMBER 3616206125.02	
SAMPLE ID 828133-MW2D020	SAMPLE TIME 6825
828133-MW2D020 MS 828133-MW2D MSB	

LOCATION ID MW2D	DATE 4/6/22
START TIME 0820	END TIME 0930
SITE NAME/INSTALLATION 828133	PAGE 1 OF 1

SAMPLE TYPE: ☒ GROUNDWATER ☐ SURFACE WATER ☐ STORM WATER ☐ DRINKING WATER ☐ PORE WATER ☐ OTHER: _____

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE FAP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

										TEMP.: nearest degree (ex. 10.1 = 10) COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69) pH: nearest tenth (ex. 5.53 = 5.5) DO: nearest tenth (ex. 3.51 = 3.5) TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101) ORP: 2 SF (44.1 = 44, 191 = 190)
--	--	--	--	--	--	--	--	--	--	---

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS	EQUIPMENT USED
☐ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER ☒ PDB ☐ HYDRASLEEVE ☐ OTHER	☐ ALCONOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER	☐ SILICON TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER	☐ S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ OTHER ☐ OTHER ☐ OTHER
			☐ WL METER ☐ PHD ☐ WQ METER ☐ TURB. METER ☐ PUMP ☐ OTHER FILTERS NO. _____ TYPE _____

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒ VOC	8260	See W.P.	N	4C1	3x40mL	MS/MSD

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED	YES ☒ NO ☐	NUMBER OF GALLONS GENERATED	2
NO-PURGE METHOD UTILIZED	YES ☒ NO ☐		

NOTES: 20 PDB placed

Sampler Signature: *[Signature]* Print Name: Ben Paulus
Checked By: Maria Guerra Date: 4/7/22

DEVIATIONS FROM THE WORK PLAN:
2x40mL collected for each (MS/MSD tool)

GRAB SAMPLING RECORD - WATER



511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME Ace Cleaners Remedial Investigation	
PROJECT NUMBER 3616206125.02	
SAMPLE ID 828133-GW8008	SAMPLE TIME 1650

LOCATION ID GW8	DATE 4/15/22
START TIME 1645	END TIME 1655
SITE NAME/INSTALLATION 828133	PAGE 1 OF 1

SAMPLE TYPE: ☒ GROUNDWATER ☐ SURFACE WATER ☐ STORM WATER ☐ DRINKING WATER ☐ PORE WATER ☐ OTHER: _____

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE FAP)

TIME	DTW (ft)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	COND. (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS	EQUIPMENT USED
☐ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER ☒ PDB ☐ HYDRASLEEVE ☐ OTHER	☐ ALCONOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER	☐ SILICON TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER	☐ S. STEEL PUMP MATERIAL ☒ PVC PUMP MATERIAL ☐ GEOPROBE/SCREEN ☐ OTHER ☐ OTHER
			☐ WL METER ☐ PID ☐ WQ METER ☐ TURB. METER ☐ PUMP ☐ OTHER ☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
VOC	8260	See w.p.	N	HCl	3x42mL	MS/MSD SP 4.5

PURGE OBSERVATIONS

PURGE WATER YES ☒ NO ☐
CONTAINERIZED YES ☒ NO ☐
NO-PURGE METHOD YES ☐ NO ☐
UTILIZED YES ☒ NO ☐
NUMBER OF GALLONS GENERATED _____

NOTES: No PDB placed

DEVIATIONS FROM THE WORK PLAN:

Sampler Signature: *[Signature]*

Print Name: Ben Paulus

Checked By: Maria Guerra

Date: 4/17/22

2x42mL collected

GRAB SAMPLING RECORD - WATER



511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME Ace Cleaners Remedial Investigation	
PROJECT NUMBER 3616206125.02	
SAMPLE ID 828133-GW12008	SAMPLE TIME 1445

LOCATION ID Gw12	DATE 4/5/22
START TIME 1440	END TIME
SITE NAME/INSTALLATION 828133	PAGE 1 OF 1

SAMPLE TYPE: ☒ GROUNDWATER ☐ SURFACE WATER ☐ STORM WATER ☐ DRINKING WATER ☐ PORE WATER ☐ OTHER: _____

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE FAP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (5.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS	EQUIPMENT USED
☐ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER ☒ PDB ☐ HYDRASLEEVE ☐ OTHER	☐ ALCONOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER	☐ SILICON TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER	☐ S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☒ CPVC PUMP MATERIAL ☐ OTHER ☐ OTHER
EQUIPMENT USED WL METER _____ PID _____ WQ METER _____ TURB. METER _____ PUMP _____ OTHER _____ FILTERS NO. _____ TYPE _____			

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒ VOC	8260	See up	N	HCL	2x40ml	N

PURGE OBSERVATIONS

PURGE WATER	YES	NO	NUMBER OF GALLONS GENERATED _____
CONTAINERIZED	☒	☐	
NO-PURGE METHOD	YES	NO	
UTILIZED	☒	☐	

NOTES:

No PDB Placed
2x40ml collected

DEVIATIONS FROM THE WORK PLAN:

NONE mg

Sampler Signature:

Print Name: Maria Guerra

Checked By: Maria Guerra

Date: 4/7/22

GRAB SAMPLING RECORD - WATER



511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME Ace Cleaners Remedial Investigation	
PROJECT NUMBER 3616206125.02	
SAMPLE ID 828133-MW12D015	SAMPLE TIME 1500

LOCATION ID MW12D	DATE 4/5/12
START TIME 1450	END TIME 1505
SITE NAME/INSTALLATION 828133	PAGE 1 OF 1

SAMPLE TYPE: ☒ GROUNDWATER ☐ SURFACE WATER ☐ STORM WATER ☐ DRINKING WATER ☐ PORE WATER ☐ OTHER: _____

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE FAP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	COND. (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

--	--	--	--	--	--	--	--	--	--	--

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP ☐ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER ☒ PDB ☐ HYDRASLEEVE ☐ OTHER	DECON FLUIDS USED ☐ ALCONOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER	TUBING/PUMP/BLADDER MATERIALS ☐ SILICON TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER	EQUIPMENT USED ☐ S. STEEL PUMP MATERIAL ☐ GEOPROBE MATERIAL ☐ GEOPROBE SCREEN ☐ OTHER ☐ OTHER ☐ OTHER	EQUIPMENT USED ☐ WL METER ☐ PID ☐ WQ METER ☐ TURB. METER ☐ PUMP ☐ OTHER ☐ FILTERS NO. TYPE
--	--	---	--	---

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒ VOC	8260	See WP	N	HCl	3x40mL	N

PURGE OBSERVATIONS

PURGE WATER	YES	NO	NUMBER OF GALLONS GENERATED
CONTAINERIZED	☒	☐	
NO-PURGE METHOD UTILIZED	YES	NO	
	☒	☐	

NOTES:

No PDB Placed

DEVIATIONS FROM THE WORK PLAN:

Sampler Signature: *[Signature]* Print Name: Ben Pindus

Checked By: Maria Guerra Date: 4/7/12

None

LOW FLOW GROUNDWATER SAMPLING RECORD

wood.

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME Ace Cleaners Remedial Investigation	
PROJECT NUMBER 3616206125.02	
SAMPLE ID 828153-6W014012	SAMPLE TIME 1210

LOCATION ID 6W-14	DATE 4/15/22
START TIME 1030	END TIME 1200
SITE NAME/INSTALLATION Ace Cleaners	PAGE 1 OF 1

WELL DIAMETER (IN.) ☒ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☒ 1/8 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

YES	NO	N/A
☒	☒	☐
☒	☒	☐
☒	☒	☐

INITIAL DTW (BMP) 3.4 FT	FINAL DTW (BMP) 5.45 FT	PROT. CASING STICKUP (AGS) 0 FT	TOC/TOR DIFFERENCE .35 FT
WELL DEPTH (BMP) 12.71 FT	SCREEN INTERVAL 12.3 FT	PID AMBIENT AIR NA PPM	REFILL TIMER SETTING NA SEC
WATER COLUMN 9.3 FT	DRAWDOWN VOLUME (final DTW - initial DTW X well diam. squared X 0.041) 0.08 GAL	PID WELL MOUTH NA PPM	DISCHARGE TIMER SETTING NA SEC
CALCULATED GAL/VOL 0.39 GAL	TOTAL VOL. PURGED 3.36 GAL	DRAWDOWN/TOTAL PURGED 0.02	PRESSURE TO PUMP NA PSI

(water column X well diameter² X 0.041) (mL per minute X total minutes X 0.00026 gal/mL)

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1030	BEGIN PURGING									
1030	4.41	200	6.64	1.271	1.45	7.07	-79.9	95.3	12	pump down to 150
1035	4.79	175	6.35	1.329	1.23	7.05	-63.6	32.2	12	
1040	4.81	155	6.28	1.332	1.33	7.05	-68.2	26.9	12	
1050	4.91	150	6.41	1.336	1.61	7.07	-80.6	14.5	12	
1100	5.20	150	6.46	1.356	1.12	7.08	-79.6	6.53	12	pump down
1110	5.40	150	6.51	1.369	0.99	7.08	-71.9	4.47	12	
1120	5.42	150	6.55	1.378	1.42	7.09	-62.9	7.39	12	didn't raise turb. meter
1130	5.44	150	6.89	1.375	1.92	7.07	-49.5	3.11	12	
1140	5.45	150	7.03	1.389	2.37	7.06	-34.0	4.29	12	Start pump up
1150	5.45	150	6.99	1.374	2.53	7.06	-25.8	5.09	12	
1155	5.45	150	7.06	1.377	2.61	7.07	-23.9	5.57	12	

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

7 1.38 2.6 7.1 -24 5.4 mg

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP		DECON FLUIDS USED		TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED	
☒ PERISTALTIC	☒	☒ ALCONOX	☒	☒ SILICON TUBING	☐	☒ WL METER	04.0667
☐ SUBMERSIBLE	☐	☒ DEIONIZED WATER	☒	☐ HDPE TUBING	☐	☐ PID	
☐ BLADDER	☒	☐ POTABLE WATER	☐	☐ LDPE TUBING	☐	☒ WQ METER	M015.03
☐ WATERA	☐	☐ NITRIC ACID	☐	☐ OTHER	☐	☒ TURB. METER	M0439
☐ OTHER	☐	☐ HEXANE	☐	☐ OTHER	☐	☒ PUMP	500831
☐ OTHER	☐	☐ METHANOL	☐	☐ OTHER	☐	☐ OTHER	
		☐ OTHER				☐ FILTERS	NO. TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
VOC	8260	See work plan	N	HCl	3x40mL Glass	N
Diss Gases	RSK-175	Methane Ethane Ethene	N	HCl	3x40mL Glass	
Metals	6010d	Fe, Mn	N	HNO3	1x125mL HDPE	
CV/SO4/NO3	SM4500	CV/SO4/NO3	N	4 C	1x125mL HDPE	
Alk	SM2320	CaCO3	N	4 C	1x125mL HDPE	
Sulfide	300	SO3	N	ZnAcet+NaO	1x500mL HDPE	
TOC	415	TOC	N	H2SO4	3x40mL Glass	
Microbes	QuantArray	DHc	N	4 C	1x1L HDPE	
			N			
			N			

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO-PURGE METHOD UTILIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED 4

NOTES

removed PDB from well did not sample

DEVIATIONS FROM THE WORK PLAN

None

Sampler Signature:

Print Name: Beat Paulus

Checked By: Maria Guerra

Date: 4/11/22

REV. 3/29/2019

LOW FLOW GROUNDWATER SAMPLING RECORD

wood.

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME Ace Cleaners Remedial Investigation	
PROJECT NUMBER 3616206125.02	
SAMPLE ID 828133-MW140020	SAMPLE TIME 1222

LOCATION ID MW-14D	DATE 04/05/22
START TIME 1058	END TIME 1222
SITE NAME/INSTALLATION Ace Cleaners	PAGE 1 OF 1

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☒ 1/8 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ☒ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

YES	NO	N/A
☒	☐	☐
☒	☒	☐
☒	☐	☐

INITIAL DTW (BMP) 5.25 FT	FINAL DTW (BMP) 6.70 FT	PROT. CASING STICKUP (AGS) 0 FT	TOC/TOR DIFFERENCE 0.35 FT
WELL DEPTH (BMP) 21.66 FT	SCREEN INTERVAL 16.66 FT	PID AMBIENT AIR NA PPM	REFILL TIMER SETTING NA SEC
WATER COLUMN 16.41 FT	DRAWDOWN VOLUME 2.378 GAL (final DTW - initial DTW X well diam. squared X 0.041)	PID WELL MOUTH NA PPM	DISCHARGE TIMER SETTING NA SEC
CALCULATED GAL/VOL 2.69 GAL (water column X well diameter ² X 0.041)	TOTAL VOL. PURGED 5.1168 GAL (mL per minute X total minutes X 0.00026 gal/mL)	DRAWDOWN/ TOTAL PURGED 0.465	PRESSURE TO PUMP NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1058	BEGIN PURGING									
1105	6.32	240	9.21	1.750	1.42	7.02	3.6	32.0	20	
1110	6.41	240	9.23	1.754	1.85	7.02	-14.4	49.3		
1115	6.50	240	9.39	1.735	—	7.02	-12.7	24.9		YSI TURNED OFF
1120	6.54	240	9.53	1.731	2.07	7.02	-2.0	25.8		DO STABILIZED
1125	6.61	240	9.10	1.735	1.55	7.01	-0.9	19.7		
1130	6.63	230	9.37	1.730	1.34	7.01	-1.0	12.2		
1140	6.69	240	9.11	1.738	1.14	7.00	-1.6	8.49		
1150	6.68	240	9.32	1.741	1.07	6.99	-7.1	9.82		
1200	6.72	240	9.60	1.751	0.93	7.00	-12.3	4.94		
1210	6.70	240	9.56	1.764	0.89	7.00	-4.4	4.93		
1220	6.70	240	9.62	1.764	0.88	7.00	-2.1	3.93		SAMPLE COLLECTED

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

10 1.76 0.9 7.0 -2.1 3.9

TEMP: nearest degree (ex. 10.1 = 10)
COND: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP ☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER ☐ WATERA ☐ OTHER ☐ OTHER		DECON FLUIDS USED ☒ ALCONOX ☐ DEIONIZED WATER ☒ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER		TUBING/PUMP/BLADDER MATERIALS ☒ SILICON TUBING ☒ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER		EQUIPMENT USED ☒ WL METER ☐ PID ☒ WQ METER ☒ TURB. METER ☒ PUMP ☐ OTHER FILTERS NO. TYPE	
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ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
VOC	8260	See work plan	N	HCl	3x40mL Glass	NONE
Diss Gasses	RSK-175	Methane Ethane Ethene	N	HCl	3x40mL Glass	
Metals	6010d	Fe, Mn	N	HNO3	1x125mL HDPE	
Cl/SO4/NO3	SM4500	Cl/SO4/NO3	N	4 C	1x125mL HDPE	
Alk	SM2320	CaCO3	N	4 C	1x125mL HDPE	
Sulfide	300	SO3	N	ZnAcet+NaO	1x500mL HDPE	
TOC	415	TOC	N	H2SO4	3x40mL Glass	
Microbes	QuantArray	DHc	N	4 C	1x1L HDPE	
			N			
			N			

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES ☒ NO ☐

NO-PURGE METHOD UTILIZED YES ☐ NO ☒

NUMBER OF GALLONS GENERATED 4

NOTES

TUBING SLIMY WHEN INITIALLY REMOVED FROM WELL

DEVIATIONS FROM THE WORK PLAN

NONE

Bria Robinson
Sampler Signature:

Bria Robinson
Print Name:

Checked By: Maria Guerra

Date: 4/7/22

REV. 3/29/2019

GRAB SAMPLING RECORD - WATER



511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME Ace Cleaners Remedial Investigation	
PROJECT NUMBER 3616206125.02	
SAMPLE ID 828133-MW100038 82 9133-MW100038	SAMPLE TIME 1550

LOCATION ID MW100	DATE 4/5
START TIME 1540	END TIME 1555
SITE NAME/INSTALLATION 8291	PAGE 1 OF 1

SAMPLE TYPE: ☒ GROUNDWATER ☐ SURFACE WATER ☐ STORM WATER ☐ DRINKING WATER ☐ PORE WATER ☐ OTHER: _____

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE FAP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

MP

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS	EQUIPMENT USED
☐ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER ☒ PDB ☐ HYDRASLEEVE ☐ OTHER _____	☐ ALCONOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER _____	☐ SILICON TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER _____ ☐ OTHER _____	☐ S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ OTHER _____ ☐ OTHER _____
EQUIPMENT USED WL METER _____ PID _____ WQ METER _____ TURB. METER _____ PUMP _____ OTHER _____ FILTERS NO. _____ TYPE _____			

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒ VOC	8260	See WP.	N	HCL	3x40mL	Dup

PURGE OBSERVATIONS

PURGE WATER	YES ☒	NO ☐	NUMBER OF GALLONS GENERATED <u>82</u>
CONTAINERIZED	YES ☒	NO ☐	
NO-PURGE METHOD	YES ☒	NO ☐	
UTILIZED	YES ☒	NO ☐	

NOTES:

No PDB Placed

DEVIATIONS FROM THE WORK PLAN:

Only 2x40mL Sample + Dup collected

Sampler Signature: R

Print Name: Ben Pinsky

Checked By: Maria Guerra

Date: 4/7/22

GRAB SAMPLING RECORD - WATER



511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME Ace Cleaners Remedial Investigation	
PROJECT NUMBER 3616206125.02	
SAMPLE ID 828133-MW1000018	SAMPLE TIME 1600

LOCATION ID MW1000	DATE 4/5/22
START TIME 1555	END TIME 1605
SITE NAME/INSTALLATION 828133	PAGE 1 OF 1

SAMPLE TYPE: ☒ GROUNDWATER ☐ SURFACE WATER ☐ STORM WATER ☐ DRINKING WATER ☐ PORE WATER ☐ OTHER: _____

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE FAP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	CONDUCTANCE (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

										TEMP.: nearest degree (ex. 10.1 = 10) COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69) pH: nearest tenth (ex. 5.53 = 5.5) DO: nearest tenth (ex. 3.51 = 3.5) TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101) ORP: 2 SF (44.1 = 44, 191 = 190)
--	--	--	--	--	--	--	--	--	--	---

EQUIPMENT DOCUMENTATION

TYPE OF PUMP ☐ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER ☒ PDB ☐ HYDRASLEEVE ☐ OTHER	DECON FLUIDS USED ☐ ALCONOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER	TUBING/PUMP/BLADDER MATERIALS ☐ SILICON TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER	EQUIPMENT USED ☐ S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ OTHER ☐ OTHER	EQUIPMENT USED ☐ WL METER ☐ PID ☐ WQ METER ☐ TURB. METER ☐ PUMP ☐ OTHER ☐ FILTERS NO. TYPE
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ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒ VOC	8260	See wq	N	4CL	3x40ml	N

PURGE OBSERVATIONS

PURGE WATER	YES	NO	NUMBER OF GALLONS GENERATED
CONTAINERIZED	☒	☐	
NO-PURGE METHOD	YES	NO	
UTILIZED	☒	☐	

NOTES:

No PDB Placed

DEVIATIONS FROM THE WORK PLAN:

None

Sampler Signature: *[Signature]*

Print Name: *[Signature]*

Checked By: Maria Guerra

Date: 4/7/22

GRAB SAMPLING RECORD - WATER



511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME Ace Cleaners Remedial Investigation	
PROJECT NUMBER 3616206125.02	
SAMPLE ID 828133-MW101007	SAMPLE TIME 1610

LOCATION ID MW101	DATE 4/5
START TIME 1605	END TIME 1615
SITE NAME/INSTALLATION 828133	PAGE 1 OF 1

SAMPLE TYPE: ☒ GROUNDWATER ☐ SURFACE WATER ☐ STORM WATER ☐ DRINKING WATER ☐ PORE WATER ☐ OTHER: _____

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE FAP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS	EQUIPMENT USED
☐ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER ☒ PDB ☐ HYDRASLEEVE ☐ OTHER	☐ ALCONOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER	☐ SILICON TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER	☐ S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☒ GEOPROBE SCREEN ☐ OTHER ☐ OTHER
EQUIPMENT USED WL METER _____ PID _____ WQ METER _____ TURB. METER _____ PUMP _____ OTHER _____ FILTERS NO. _____ TYPE _____			

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
VOC	8260	Spec. P.	N	HCl	3x40mL	N

PURGE OBSERVATIONS

PURGE WATER	YES ☒	NO ☐	NUMBER OF GALLONS GENERATED	2
CONTAINERIZED	YES ☒	NO ☐		
NO-PURGE METHOD UTILIZED	YES ☒	NO ☐		

NOTES:

no PDB placed
Black Staining on bag & strong organic odor

DEVIATIONS FROM THE WORK PLAN:

NONE m/j

Sampler Signature:

Print Name: Boulevard

Checked By: Maria Guerra

Date: 4/7/22

GRAB SAMPLING RECORD - WATER



511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME Ace Cleaners Remedial Investigation	
PROJECT NUMBER 3616206125.02	
SAMPLE ID 828133-MW101D15	SAMPLE TIME

LOCATION ID MW101D	DATE 4/5/22
START TIME 1610	END TIME
SITE NAME/INSTALLATION 828133	PAGE 1 OF 1

SAMPLE TYPE: ☒ GROUNDWATER ☐ SURFACE WATER ☐ STORM WATER ☐ DRINKING WATER ☐ PORE WATER ☐ OTHER: _____

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE FAP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	COND. (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

Mg

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS	EQUIPMENT USED
☐ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER ☒ PDB ☐ HYDRASLEEVE ☐ OTHER	☐ ALCONOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER	☐ SILICON TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER	☐ S. STEEL PUMP MATERIAL ☒ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ OTHER ☐ OTHER
			☐ WL METER ☐ PID ☐ WQ METER ☐ TURB. METER ☐ PUMP ☐ OTHER ☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒ VOC	8280	See W.P.	N	HCl	3 x 40 mL	N

PURGE OBSERVATIONS

PURGE WATER	YES	NO	NUMBER OF GALLONS GENERATED
CONTAINERIZED	☒	☐	
NO-PURGE METHOD	YES	NO	
UTILIZED	☒	☐	

NOTES:

No PDB placed

Sampler Signature:

[Signature]

Print Name:

Barbarus

Checked By:

Maria Guerra

Date:

4/7/22

DEVIATIONS FROM THE WORK PLAN:

NONE MP

GRAB SAMPLING RECORD - WATER



511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME Ace Cleaners Remedial Investigation	
PROJECT NUMBER 3616206125.02	
SAMPLE ID 828133-MW102008	SAMPLE TIME 0845

LOCATION ID MW102	DATE 4/6/22
START TIME 0840	END TIME 0850
SITE NAME/INSTALLATION 828133	PAGE 1 OF 1

SAMPLE TYPE: ☒ GROUNDWATER ☐ SURFACE WATER ☐ STORM WATER ☐ DRINKING WATER ☐ PORE WATER ☐ OTHER: _____

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE FAP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	COND. (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

--	--	--	--	--	--	--	--	--	--	--

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP ☐ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER ☒ PDB ☐ HYDRASLEEVE ☐ OTHER	DECON FLUIDS USED ☐ ALCONOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER	TUBING/PUMP/BLADDER MATERIALS ☐ SILICON TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER	EQUIPMENT USED ☐ S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ OTHER ☐ OTHER	EQUIPMENT USED ☐ WL METER ☐ PID ☐ WQ METER ☐ TURB. METER ☐ PUMP ☐ OTHER ☐ FILTERS NO. TYPE
--	--	---	--	---

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒ VOC	8260	See w.p.	N	HC1	3x 80mc	N

PURGE OBSERVATIONS

PURGE WATER	YES ☒	NO ☐	NUMBER OF GALLONS GENERATED	0
CONTAINERIZED	YES ☒	NO ☐		
NO-PURGE METHOD UTILIZED	YES ☒	NO ☐		

NOTES:

No PDB collected

DEVIATIONS FROM THE WORK PLAN:

NONE mg

Sampler Signature: *[Signature]*

Print Name: Ben Farley

Checked By: Maria Guerra

Date: 4/7/22

GRAB SAMPLING RECORD - WATER



511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME Ace Cleaners Remedial Investigation	
PROJECT NUMBER 3616206125.02	
SAMPLE ID 828133-MW103007	SAMPLE TIME 1330

LOCATION ID MW103	DATE 4/5/22
START TIME 1520	END TIME 1335
SITE NAME/INSTALLATION 828133	PAGE 1 OF 1

SAMPLE TYPE: ☒ GROUNDWATER ☐ SURFACE WATER ☐ STORM WATER ☐ DRINKING WATER ☐ PORE WATER ☐ OTHER: _____

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE FAP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	CONDUCTANCE (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS	EQUIPMENT USED
☐ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER ☒ PDB ☐ HYDRASLEEVE ☐ OTHER	☐ ALCONOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER	☐ SILICON TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER	☐ S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ OTHER ☐ OTHER
			☐ WL METER ☐ PID ☐ WQ METER ☐ TURB. METER ☐ PUMP ☐ OTHER ☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒ VOC	8260	Screen	N	HCL	3x40mL	N

PURGE OBSERVATIONS

PURGE WATER	YES ☒ NO ☐	NUMBER OF GALLONS GENERATED <u>2</u>
CONTAINERIZED	YES ☒ NO ☐	
NO-PURGE METHOD	YES ☒ NO ☐	
UTILIZED	YES ☒ NO ☐	

NOTES:
No PDB placed
R

Sampler Signature: [Signature]

Print Name: Ben Paulus

Checked By: Maria Guerra

Date: 4/7/22

DEVIATIONS FROM THE WORK PLAN:

2x40mL collected

GRAB SAMPLING RECORD - WATER



511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME Ace Cleaners Remedial Investigation	
PROJECT NUMBER 3616206125.02	
SAMPLE ID 928133-MW104005	SAMPLE TIME 1435

LOCATION ID MW104	DATE 4/5/22
START TIME 1428	END TIME 1440
SITE NAME/INSTALLATION 82933	PAGE 1 OF 1

SAMPLE TYPE: ☒ GROUNDWATER ☐ SURFACE WATER ☐ STORM WATER ☐ DRINKING WATER ☐ PORE WATER ☐ OTHER: _____

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE FAP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP		DECON FLUIDS USED		TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED	
☐ PERISTALTIC	☐ SUBMERSIBLE	☐ ALCONOX	☐ DEIONIZED WATER	☐ SILICON TUBING	☐ S. STEEL PUMP MATERIAL	☐ WL METER	☐ PID
☐ BLADDER	☐ PDB	☐ POTABLE WATER	☐ NITRIC ACID	☐ HDPE TUBING	☐ PVC PUMP MATERIAL	☐ WO METER	☐ TURB. METER
☒ HYDRASLEEVE	☐ OTHER	☐ HEXANE	☐ METHANOL	☐ LDPE TUBING	☐ GEOPROTECT SCREEN	☐ PUMP	☐ OTHER
☐ OTHER		☐ OTHER		☐ OTHER	☐ OTHER	☐ FILTERS	☐ NO. TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒ VOC	8260	same	N	HCl	3x40ml	✓

PURGE OBSERVATIONS

PURGE WATER	YES ☒	NO ☐	NUMBER OF GALLONS GENERATED <u>2</u>
CONTAINERIZED	YES ☒	NO ☐	
NO-PURGE METHOD	YES ☐	NO ☐	
UTILIZED	YES ☒	NO ☐	

NOTES:

No PDB placed

DEVIATIONS FROM THE WORK PLAN:

only 2x40ml samples collected

Sampler Signature: [Signature]

Print Name: Ben Paulus

Checked By: Maria Guerra

Date: 4/7/22

GRAB SAMPLING RECORD - WATER



511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME Ace Cleaners Remedial Investigation	
PROJECT NUMBER 3616206125.02	
SAMPLE ID 828133-MW105007	SAMPLE TIME 1410

LOCATION ID MW-105	DATE 4/5/22
START TIME 1405	END TIME 1412
SITE NAME/INSTALLATION 828133	PAGE 1 OF 1

SAMPLE TYPE: ☒ GROUNDWATER ☐ SURFACE WATER ☐ STORM WATER ☐ DRINKING WATER ☐ PORE WATER ☐ OTHER: _____

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE FAP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	COND. (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP		DECON FLUIDS USED		TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED	
☐ PERISTALTIC	☐ ALCONOX	☐ SILICON TUBING	☐ S. STEEL PUMP MATERIAL	☐ WL METER	☐ PID ☐ WQ METER ☐ TURB. METER ☐ PUMP ☐ OTHER ☐ FILTERS NO. _____ TYPE _____		
☐ SUBMERSIBLE	☐ DEIONIZED WATER	☐ HDPE TUBING	☐ PVC PUMP MATERIAL	☐ PID			
☐ BLADDER	☐ POTABLE WATER	☐ LDPE TUBING	☐ GEOPROBE SCREEN	☐ WQ METER			
☒ PDB	☐ NITRIC ACID	☐ OTHER	☐ OTHER	☐ TURB. METER			
☐ HYDRASLEEVE	☐ HEXANE	☐ OTHER	☐ OTHER	☐ PUMP			
☐ OTHER	☐ METHANOL	☐ OTHER	☐ OTHER	☐ OTHER			

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒ VOC	8260	semp	N	HCl	3x40mL	N

PURGE OBSERVATIONS

PURGE WATER	YES ☒	NO ☐	NUMBER OF GALLONS GENERATED <u>2</u>
CONTAINERIZED	YES ☒	NO ☐	
NO-PURGE METHOD	YES ☐	NO ☐	
UTILIZED	YES ☒	NO ☐	

NOTES:

No PDB placed

DEVIATIONS FROM THE WORK PLAN:

only 2x40mL collected

Sampler Signature:

Print Name: Ben Pardo

Checked By: Maria Guerra

Date: 4/7/22

GRAB SAMPLING RECORD - WATER



511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME Ace Cleaners Remedial Investigation	
PROJECT NUMBER 3616206125.02	
SAMPLE ID 828133-MW106-007	SAMPLE TIME 1420

LOCATION ID MW 106	DATE 4/15/22
START TIME 1415	END TIME 1425
SITE NAME/INSTALLATION 828133	PAGE 1 OF 1

SAMPLE TYPE: ☒ GROUNDWATER ☐ SURFACE WATER ☐ STORM WATER ☐ DRINKING WATER ☐ PORE WATER ☐ OTHER: _____

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE FAP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS	EQUIPMENT USED
☐ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER ☒ PDB ☐ HYDRASLEEVE ☐ OTHER	☐ ALCONOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER	☐ SILICON TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER	☐ S STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ OTHER ☐ OTHER ☐ OTHER
			WL METER _____ PID _____ WQ METER _____ TURB. METER _____ PUMP _____ OTHER _____ FILTERS NO. _____ TYPE _____

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒ VOC	8260	Seaw	N	HCL	2x40 mL	N

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED	YES ☒	NO ☐	NUMBER OF GALLONS GENERATED 0
NO-PURGE METHOD UTILIZED	YES ☒	NO ☐	

NOTES:

Only 2x40 mL collected
No PDB placed

DEVIATIONS FROM THE WORK PLAN:

2x40 mL collected
3x40 mL

Sampler Signature: *[Signature]*

Print Name: Ben Fawkes

Checked By: Maria Guerra

Date: 4/17/22

GRAB SAMPLING RECORD - WATER



511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME Ace Cleaners Remedial Investigation	
PROJECT NUMBER 3616206125.02	
SAMPLE ID 828133-MW107007	SAMPLE TIME 0855

LOCATION ID MW-107	DATE 4/5/22 - 4/6/22
START TIME 1315(4/5)	END TIME 0915
SITE NAME/INSTALLATION Ace Cleaner	PAGE 1 OF 1

SAMPLE TYPE: ☒ GROUNDWATER ☐ SURFACE WATER ☐ STORM WATER ☐ DRINKING WATER ☐ PORE WATER ☐ OTHER: _____

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE FAP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	COND. (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1315	—	—	—	—	—	—	—	—	7	Purge dry, return 4/6 to sample
0855	—	—	—	—	—	—	—	—	—	Sample collected

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

—	—	—	—	—	—	—	—	—	—	TEMP.: nearest degree (ex. 10.1 = 10) COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69) pH: nearest tenth (ex. 5.53 = 5.5) DO: nearest tenth (ex. 3.51 = 3.5) TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101) ORP: 2 SF (44.1 = 44, 191 = 190)
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EQUIPMENT DOCUMENTATION

TYPE OF PUMP ☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER ☐ PDB ☐ HYDRASLEEVE ☐ OTHER _____	DECON FLUIDS USED ☒ ALCONOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER _____	TUBING/PUMP/BLADDER MATERIALS ☒ SILICON TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER _____ ☐ OTHER _____	EQUIPMENT USED ☒ WL METER 040607 ☐ PID ☐ WQ METER ☐ TURB. METER ☒ PUMP 500931 ☐ OTHER _____ ☐ FILTERS NO. _____ TYPE _____
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ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒ VOC	8260	See work plan	N	HCL	3x40mL	N

PURGE OBSERVATIONS

PURGE WATER	YES ☒	NO ☐	NUMBER OF GALLONS GENERATED 0.5
CONTAINERIZED	YES ☒	NO ☐	
NO-PURGE METHOD UTILIZED	YES ☐	NO ☒	

NOTES:

Well had no PDB. Purged dry 4/5, returned 4/6 to collect grab sample

DEVIATIONS FROM THE WORK PLAN:

Sampler Signature: *[Signature]*

Print Name: Ben Paulus

Checked By: Maria Guerra

Date: 4/17/22

NONE *mg*

GRAB SAMPLING RECORD - WATER



511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME Ace Cleaners Remedial Investigation	
PROJECT NUMBER 3616206125.02	
SAMPLE ID 828133-MW108008	SAMPLE TIME 1340

LOCATION ID MW 108	DATE 4/5/22
START TIME 1330	END TIME 1350
SITE NAME/INSTALLATION 828133	PAGE 1 OF 1

SAMPLE TYPE: ☒ GROUNDWATER ☐ SURFACE WATER ☐ STORM WATER ☐ DRINKING WATER ☐ PORE WATER ☐ OTHER: _____

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE FAP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	CONDUCTANCE (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

mg

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP		DECON FLUIDS USED		TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED	
☐ PERISTALTIC	☐ ALCONOX	☐ SILICON TUBING	☐ S. STEEL PUMP MATERIAL	☐ WL METER			
☐ SUBMERSIBLE	☐ DEIONIZED WATER	☐ HDPE TUBING	☐ PVC PUMP MATERIAL	☐ PID			
☐ BLADDER	☐ POTABLE WATER	☐ LDPE TUBING	☐ GEOPROTECT SCREEN	☐ WQ METER			
☒ PDB	☐ NITRIC ACID	☐ OTHER	☐ OTHER	☐ TURB. METER			
☐ HYDRASLEEVE	☐ HEXANE	☐ OTHER	☐ OTHER	☐ PUMP			
☐ OTHER	☐ METHANOL	☐ OTHER	☐ OTHER	☐ OTHER			
	☐ OTHER			☐ FILTERS	NO.	TYPE	

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒ VOC	8260	See Work plan	N	HCl	3x40 mL	N

PURGE OBSERVATIONS

PURGE WATER YES ☒ NO ☐
CONTAINERIZED YES ☒ NO ☐
NO-PURGE METHOD YES ☒ NO ☐
UTILIZED YES ☒ NO ☐

NUMBER OF GALLONS
GENERATED

2

NOTES:

No PDB Placed

DEVIATIONS FROM THE WORK PLAN:

None

Sampler Signature:

Print Name:

Ben Paulus

Checked By:

Maria Guerra

Date:

4/7/22

GRAB SAMPLING RECORD - WATER



511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME Ace Cleaners Remedial Investigation	
PROJECT NUMBER 3616206125.02	
SAMPLE ID 828133-MW109007	SAMPLE TIME 1355

LOCATION ID MW109	DATE 4/5/22
START TIME 1355	END TIME 1400
SITE NAME/INSTALLATION 828133	PAGE 1 OF 1

SAMPLE TYPE: ☒ GROUNDWATER ☐ SURFACE WATER ☐ STORM WATER ☐ DRINKING WATER ☐ PORE WATER ☐ OTHER: _____

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE FAP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	CONDUTANCE (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS	EQUIPMENT USED
☐ PERISTALTIC	☐ ALCONOX	☐ SILICON TUBING	☐ WL METER
☐ SUBMERSIBLE	☐ DEIONIZED WATER	☐ HDPE TUBING	☐ PID
☐ BLADDER	☐ POTABLE WATER	☐ LDPE TUBING	☐ WQ METER
☒ PDB	☐ NITRIC ACID	☐ OTHER	☐ TURB. METER
☐ HYDRASLEEVE	☐ HEXANE	☐ OTHER	☐ PUMP
☐ OTHER	☐ METHANOL	☐ OTHER	☐ OTHER
	☐ OTHER		☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒ VOC	8260	See us.	N	HCl	3x40ml	N

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED	☒ YES ☐ NO	NUMBER OF GALLONS GENERATED
NO-PURGE METHOD UTILIZED	☒ YES ☐ NO	

NOTES:

No PDB placed, Not enough volume for all 3 vials

DEVIATIONS FROM THE WORK PLAN:

Sampler Signature: *[Signature]* Print Name: Ben Parshy
Checked By: Maria Loverso Date: 4/7/22

NOC

GRAB SAMPLING RECORD - WATER



511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME
Ace Cleaners Remedial Investigation

PROJECT NUMBER
3616206125.02

SAMPLE ID
828/33-MW110010

SAMPLE TIME
0805

LOCATION ID
MW110

DATE
4/6

START TIME
0803

END TIME
0810

SITE NAME/INSTALLATION
828/33

PAGE
1 OF 1

SAMPLE TYPE: ☒ GROUNDWATER ☐ SURFACE WATER ☐ STORM WATER ☐ DRINKING WATER ☐ PORE WATER ☐ OTHER: _____

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE FAP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP		DECON FLUIDS USED		TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED	
☐ PERISTALTIC	☐ SUBMERSIBLE	☐ ALCONOX	☐ DEIONIZED WATER	☐ SILICON TUBING	☐ S. STEEL PUMP MATERIAL	☐ WL METER	☐ PID
☐ BLADDER	☐ PDB	☐ POTABLE WATER	☐ NITRIC ACID	☐ HDPE TUBING	☐ PVC PUMP MATERIAL	☐ WQ METER	☐ TURB. METER
☒ HYDRASLEEVE	☐ OTHER	☐ HEXANE	☐ OTHER	☐ LDPE TUBING	☐ GEOPROB SCREEN	☐ PUMP	☐ OTHER
		☐ METHANOL	☐ OTHER	☐ OTHER	☐ OTHER	☐ FILTERS	☐ NO. TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒ VOC	8260	See WP	N	HCl	3x40ml	N

PURGE OBSERVATIONS

PURGE WATER YES ☒ NO ☐ NUMBER OF GALLONS GENERATED 2
CONTAINERIZED YES ☒ NO ☐
NO-PURGE METHOD YES ☒ NO ☐
UTILIZED YES ☒ NO ☐

NOTES: No PDB placed

DEVIATIONS FROM THE WORK PLAN:

2x40ml only

Sampler Signature: *[Signature]*

Print Name: Ben Paulus

Checked By: Maria Guerra

Date: 4/7/22

GRAB SAMPLING RECORD - WATER



511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME Ace Cleaners Remedial Investigation	
PROJECT NUMBER 3616206125.02	
SAMPLE ID 828133-MW111 007	SAMPLE TIME 0900

LOCATION ID MW111	DATE 4/6/22
START TIME 0755	END TIME 0905
SITE NAME/INSTALLATION 828133	PAGE 1 OF 1

SAMPLE TYPE: ☒ GROUNDWATER ☐ SURFACE WATER ☐ STORM WATER ☐ DRINKING WATER ☐ PORE WATER ☐ OTHER: _____

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE FAP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	COND. (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure (SF) max (ex. 1.586 = 1.59)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 5.51 = 5.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS	EQUIPMENT USED
☐ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER ☒ PDB ☐ HYDRASLEEVE ☐ OTHER	☐ ALCONOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER	☐ SILICON TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER	☐ S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ OTHER ☐ OTHER

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒ VOC	8260	See w.p.	N	HCl	3x40mL	N

PURGE OBSERVATIONS

PURGE WATER	☒ YES	☐ NO	NUMBER OF GALLONS GENERATED
CONTAINERIZED	☒ YES	☐ NO	
NO-PURGE METHOD	☒ YES	☐ NO	
UTILIZED	☒ YES	☐ NO	

NOTES:

No PDB Placed

Sampler Signature: *M*

Print Name: Ben Paulus

Checked By: Maria Guerra

Date: 4/7/22

DEVIATIONS FROM THE WORK PLAN:

2x40mL collected

GRAB SAMPLING RECORD - WATER



511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME Ace Cleaners Remedial Investigation	
PROJECT NUMBER 3616206125.02	
SAMPLE ID 828133-MW112007	SAMPLE TIME 0750

LOCATION ID MW112	DATE 4/6/22
START TIME 6735	END TIME 0755
SITE NAME/INSTALLATION 828133	PAGE 1 OF 1

SAMPLE TYPE: ☒ GROUNDWATER ☐ SURFACE WATER ☐ STORM WATER ☐ DRINKING WATER ☐ PORE WATER ☐ OTHER: _____

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE FAP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	COND. (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP ☐ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER ☒ PDB ☐ HYDRASLEEVE ☐ OTHER	DECON FLUIDS USED ☐ ALCONOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER	TUBING/PUMP/BLADDER MATERIALS ☐ SILICON TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER	EQUIPMENT USED ☐ WL METER ☐ PID ☐ WQ METER ☐ TURB. METER ☐ PUMP ☐ OTHER ☐ FILTERS NO. TYPE
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ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒ VOC	8260	sewp	N	HCL	3x40mL	N

PURGE OBSERVATIONS

PURGE WATER	YES	NO	NUMBER OF GALLONS GENERATED <u>2</u>
CONTAINERIZED	☒	☐	
NO-PURGE METHOD	YES	NO	
UTILIZED	☒	☐	

NOTES:

N. PDB placed
Solvent odor

Sampler Signature: [Signature]Print Name: Ben PaulusChecked By: Maria GuerraDate: 4/7/22

DEVIATIONS FROM THE WORK PLAN:

2x40mL collected

LOW FLOW GROUNDWATER SAMPLING RECORD

wood.

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME <u>Acc Cleaner</u>	
PROJECT NUMBER <u>828133</u>	
SAMPLE ID <u>828133-MW1304</u>	SAMPLE TIME <u>0945</u>

LOCATION ID <u>828133/MW13</u>	DATE <u>4/5/22</u>
START TIME <u>0800</u>	END TIME <u>1000</u>
SITE NAME/INSTALLATION <u>Acc Cleaner</u>	PAGE <u>1</u> OF <u>1</u>

WELL DIAMETER (IN.) ☒ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☒ 1/8 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ☒ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

YES	NO	N/A
☒	☐	☐
☒	☐	☐
☒	☐	☐

INITIAL DTW (BMP) <u>2.91</u> FT	FINAL DTW (BMP) <u>5.54</u> FT	PROT. CASING STICKUP (AGS) <u>0</u> FT	TOC/TOR DIFFERENCE <u>.13</u> FT
WELL DEPTH (BMP) <u>11.41</u> FT	SCREEN INTERVAL <u>12-2</u> FT	PID AMBIENT AIR <u>NA</u> PPM	REFILL TIMER SETTING <u>NA</u> SEC
WATER COLUMN <u>8.50</u> FT	DRAWDOWN VOLUME (final DTW - initial DTW X well diam. squared X 0.041) <u>0.11</u> GAL	PID WELL MOUTH <u>NA</u> PPM	DISCHARGE TIMER SETTING <u>NA</u> SEC
CALCULATED GAL/VOL (water column X well diameter ² X 0.041) <u>0.35</u> GAL	TOTAL VOL. PURGED <u>3.95</u> GAL	DRAWDOWN/ TOTAL PURGED <u>0.03</u>	PRESSURE TO PUMP <u>NA</u> PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
0820	BEGIN PURGING									
0825	4.76	250	5.92	1.520	2.46	7.00	192.3	149	11	Failed to replace Silastic
0830	5.51	200	5.98	1.537	2.20	6.99	19.0	130	11	pump down to 200
0835	5.52	175	6.10	1.522	1.83	7.02	-29.0	224	11	pump to 175
0840	5.51	175	6.22	1.525	2.83	7.04	-21.4	153	11	
0850	5.53	175	6.42	1.531	3.22	7.05	-9.6	73.6	11	
0900	5.55	125	6.63	1.524	2.14	7.06	19.2	23.8	11	
0910	5.55	175	6.65	1.526	2.03	7.06	23.0	27.0	11	
0920	5.55	175	6.69	1.531	1.82	7.05	23.8	6.50	11	
0930	5.55	175	6.71	1.535	1.79	7.03	24.8	6.11	11	
0940	5.54	175	6.73	1.541	1.69	7.02	16.1	4.09	11	
0945	Sample Collected									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

7	1.54	1.7	7.0	16	4.1
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TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP		DECON FLUIDS USED		TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED	
☒ PERISTALTIC	☐ X	☐ ALCONOX	☐ X	☐ SILICON TUBING	☐ S. STEEL PUMP MATERIAL	☒ WL METER	<u>04-0467</u>
☐ SUBMERSIBLE	☐ X	☐ DEIONIZED WATER	☐ X	☐ HDPE TUBING	☐ PVC PUMP MATERIAL	☐ PID	
☐ BLADDER	☐ X	☐ POTABLE WATER	☐	☐ LDPE TUBING	☐ GEOPROBE SCREEN	☒ WQ METER	<u>M01523</u>
☐ WATERA	☐	☐ NITRIC ACID	☐	☐ OTHER	☐ OTHER	☒ TURB. METER	<u>U0434</u>
☐ OTHER	☐	☐ HEXANE	☐	☐ OTHER	☐ OTHER	☒ PUMP	<u>800831</u>
☐ OTHER	☐	☐ METHANOL	☐	☐ OTHER	☐ OTHER	☐ OTHER	
		☐ OTHER				☐ FILTERS	NO. _____ TYPE _____

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒ VOC	8260	See Workplan	N	HCL	3x40 mL	Dur
☒ MNA	SM5310C	TOC	N	H ₂ SO ₄	3x40 mL	
	300 ^{pp} 6010C	Fe, Mn	N	HNO ₃	1x125 mL	
	SM7320B	Alk	N	None	1x125 mL	
	300 ^{pp}	ClSO ₄ NO ₃	N	None	1x125 mL	
	SM5310C RSL	CLSO ₄ NEE	N	HCL	3x40 mL	
	RSL 175	RSL CO ₂ to Base	N	None	3x40 mL	

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO-PURGE METHOD UTILIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED 4

NOTES
Baggage meter
MNA
DHC

METHOD
4500S22

ANALYTE
SO₄
DHC

FILTERED
N

PREP
Entire No

WOL
1x500 mL
1x12

Sampler Signature: [Signature]

Print Name: Deel Pauliers

Checked By: Maria Guerra

Date: 4/1/22

DEVIATIONS FROM THE WORK PLAN

None

LOW FLOW GROUNDWATER SAMPLING RECORD

wood.

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME Ace Cleaners Remedial Investigation	
PROJECT NUMBER 3616206125.02	
SAMPLE ID 828133-MW114010	SAMPLE TIME 10:10

LOCATION ID MW-114	DATE 04/05/22
START TIME 8:18	END TIME 10:10
SITE NAME/INSTALLATION Ace Cleaners	PAGE 1 OF 2

WELL DIAMETER (IN.) ☒ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☒ 1/8 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☒ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP	☒	☐	☐
CASING	☒	☐	☐
LOCKED	☒	☒	☐
COLLAR	☒	☐	☐

INITIAL DTW (BMP) 2.77 FT	FINAL DTW (BMP) 6.69 FT	PROT. CASING STICKUP (AGS) 0 FT	TOC/TOR DIFFERENCE 0.02 FT
WELL DEPTH (BMP) 11.00 FT	SCREEN INTERVAL 10 FT	PID AMBIENT AIR NA PPM	REFILL TIMER SETTING NA SEC
WATER COLUMN 9.23 FT	DRAWDOWN VOLUME (final DTW - initial DTW X well diam. squared X 0.041) 0.643 GAL	PID WELL MOUTH NA PPM	DISCHARGE TIMER SETTING NA SEC
CALCULATED GAL/VOL (water column X well diameter ² X 0.041) 1.35 GAL	TOTAL VOL. PURGED 3.93 GAL	DRAWDOWN/ TOTAL PURGED 0.164	PRESSURE TO PUMP NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
8:18	BEGIN PURGING									
8:25	6.85	110	6.10	2.232	2.00	6.79	199.5	273	10	Speed decreased
8:30	7.40	110	6.13	2.163	1.96	6.82	173.5	174		Speed decreased
8:35	6.80	110	6.19	2.158	3.28	6.83	128.1	112		
8:40	5.91	100	6.23	2.159	4.47	6.84	104.5	124		pump stopped. speed increased
8:45	6.27	130	6.34	2.160	4.20	6.85	91.4	109		
8:50	6.80	125	6.52	2.156	3.43	6.85	85.8	108		
8:55	7.78	140	6.56	2.110	3.11	6.87	86.0	63.8		
9:05	8.37	130	6.74	2.077	—	6.87	81.7	105		VSL TURNED OFF. 100 UNSTABLE
9:15	6.70	135	6.72	2.043	3.22	6.87	91.2	73		
9:25	6.68	135	6.88	2.033	3.03	6.86	95.8	118		
9:35	6.69	135	6.94	2.024	3.00	6.86	98.9	56.2		

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)	COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)	DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)	ORP: 2 SF (44.1 = 44, 191 = 190)
7	1.10
3.7	6.9
110	32.7

EQUIPMENT DOCUMENTATION

TYPE OF PUMP		DECON FLUIDS USED		TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED	
☒ PERISTALTIC	☐ ALCONOX	☒ SILICON TUBING	☐ S. STEEL PUMP MATERIAL	☒ WL METER			
☐ SUBMERSIBLE	☐ DEIONIZED WATER	☒ HDPE TUBING	☐ PVC PUMP MATERIAL	☐ PID			
☐ BLADDER	☒ POTABLE WATER	☐ LDPE TUBING	☐ GEOPROBE SCREEN	☒ WQ METER	M013-04		
☐ WATERA	☐ NITRIC ACID	☐ OTHER	☐ OTHER	☒ TURB. METER	M02 4-40		
☐ OTHER	☐ HEXANE	☐ OTHER	☐ OTHER	☒ PUMP			
☐ OTHER	☐ METHANOL	☐ OTHER	☐ OTHER	☐ OTHER			
	☐ OTHER			☐ FILTERS	NO. TYPE		

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
VOC	8260	See work plan	N	HCl	3x40mL Glass	NONE mg
Diss Gasses	RSK-175	Methane Ethane Ethene	N	HCl	3x40mL Glass	
Metals	6010d	Fe, Mn	N	HNO3	1x125mL HDPE	
Cl/NO3	SM4500	Cl/NO3	N	4 C	1x125mL HDPE	
Alk	SM2320	CaCO3	N	4 C	1x125mL HDPE	
Sulfide	300	SO3	N	ZnAcet+NaO	1x500mL HDPE	
TOC	415	TOC	N	H2SO4	3x40mL Glass	
Microbes	QuantArray	DHc	N	4 C	1x1L HDPE	
			N			
			N			

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO-PURGE METHOD UTILIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED 3.5

NOTES

NONE mg

DEVIATIONS FROM THE WORK PLAN

NONE

Sampler Signature: Brian Robinson Print Name: Brian Robinson

Checked By: Maria Guerra Date: 4/1/22

wood.

PROJECT NAME	
Ace Cleaners Remedial Investigation	
PROJECT NUMBER	
3616206125.02	
SAMPLE ID	SAMPLE TIME
828/33-MW 114010	10:10

LOCATION ID MW-114	DATE 05/05/22
START TIME 8:18	END TIME 10:10
SITE NAME/INSTALLATION Ace Cleaners	PAGE 2 OF 2

WELL DIAMETER (IN.) ☒ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☒ 1/8 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY		
YES	NO	N/A

	YES	NO	NOT
CAP	☒	☐	☐
CASING	☒	☐	☐
LOCKED	☐	☒	☐
COLLAR	☒	☐	☐

INITIAL DTW (BMP)	2.77 FT	FINAL DTW (BMP)	6.69 FT	PROT. CASING STICKUP (AGS)	0 FT	TOCTOR DIFFERENCE	0.02 FT
WELL DEPTH (BMP)	11.00 FT	SCREEN INTERVAL	10 FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	8.23 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	0.643 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter ² X 0.041)	1.35 GAL	TOTAL VOL. PURGED	3.93 GAL (mL per minute X total minutes X 0.00026 gal/mL)	DRAWDOWN/ TOTAL PURGED	0.164	PRESSURE TO PUMP	NA PSI

[illegible]

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)										mg	
TEMP: nearest degree (ex. 10.1 = 10)											
COND: 3 significant figure max (ex. 1.686 = 1.69)											
pH: nearest tenth (ex. 5.53 = 5.5)											
DO: nearest tenth (ex. 3.51 = 3.5)											
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)											
ORP: 2 SF (44.1 = 44, 191 = 190)											

TYPE OF PUMP		DECON FLUIDS USED		TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED	
☒	PERISTALTIC	☒	ALCONOX	☒	SILICON TUBING	☒	WL METER
☐	SUBMERSIBLE	☐	DEIONIZED WATER	☒	HDPE TUBING	☐	PID
☐	BLADDER	☒	POTABLE WATER	☐	LDPE TUBING	☒	WQ METER <i>12015-04</i>
☐	WATTERA	☐	NITRIC ACID	☐	OTHER	☒	TURB. METER <i>12024-40</i>
☐	OTHER	☐	HEXANE	☐	OTHER	☐	PUMP
☐	OTHER	☐	METHANOL	☐	OTHER	☐	OTHER
☐	OTHER	☐	OTHER	☐	OTHER	☐	FILTERS NO. TYPE

ANALYTICAL PARAMETERS				PRESERVATION METHOD			QC COLLECTED
PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED		
VOC	8260	See work plan	N	HCl	3x40mL Glass	NONE <i>ms</i>	
Diss Gasses	RSK-175	Methane Ethane Ethene	N	HCl	3x40mL Glass		
Metals	6010d	Fe, Mn	N	HNO3	1x125mL HDPE		
CU/SO4/NO3	SM4500	CU/SO4/NO3	N	4 C	1x125mL HDPE		
Alk	SM2320	CaCO3	N	4 C	1x125mL HDPE		
Sulfide	300	SO3	N	ZnAcet+NaO	1x500mL HDPE		
TOC	415	TOC	N	H2SO4	3x40mL Glass		
Microbes	QuantArray	DHc	N	4 C	1x1L HDPE		
			N				

PURGE WATER	YES	NO	NUMBER OF GALLONS	3.5
CONTAINERIZED	☒	☐	GENERATED	
NO-PURGE METHOD	YES	NO		
UTILIZED	☐	☒		

NONE mg

NONG

Bria R. Robinson
Print Name:

Checked By: Maria Guerra Date: 4/7/22

REV. 3/29/2019

FIELD INSTRUMENT CALIBRATION RECORD

PROJECT NAME: Ace Cleaners
 PROJECT NUMBER: 3616306125.02
 PROJECT LOCATION: Brookport NY
 WEATHER CONDITIONS (AM): Sunny 70°F
 WEATHER CONDITIONS (PM): _____

TASK NO: 02 DATE: 8/10/21
 MACTEC CREW: Ben Paulus
 SAMPLER NAME: Ben Paulus
 SAMPLER SIGNATURE: [Signature]
 CHECKED BY: [Signature] DATE: 8/13/21

MULTI-PARAMETER WATER QUALITY METER

METER TYPE _____

MODEL NO. _____

UNIT ID NO. _____

AM CALIBRATION

Start Time _____ / End Time _____

	Units	Standard Value	Meter Value	*Acceptance Criteria (AM)
pH (4)	SU	4.0	_____	+/- 0.1 pH Units
pH (7)	SU	7.0	_____	+/- 0.1 pH Units
pH (10)	SU	10.0	_____	+/- 0.1 pH Units
Redox	+/- mV	240	_____	+/- 10 mV
Conductivity	mS/cm	1.413	_____	+/- 0.5 % of standard
DO (saturated)	%	100	_____	+/- 2% of standard
DO (saturated) mg/L	¹ (see Chart 1)	_____	_____	+/- 0.2 mg/L
DO (<0.1)	mg/L	<0.1	_____	< 0.5 mg/L
Temperature	°C	_____	_____	_____
Baro. Press.	mmHg	_____	_____	_____

POST CALIBRATION CHECK

Start Time _____ / End Time _____

Standard Value	Meter Value	*Acceptance Criteria (PM)
7.0	_____	+/- 0.3 pH Units
240	_____	+/- 10 mV
1.413	_____	+/- 5% of standard
_____	_____	+/- 0.5 mg/L of standard
_____	_____	_____

TURBIDITY METER

METER TYPE _____

MODEL NO. _____

UNIT ID NO. _____

Units	Standard Value	Meter Value	Standard Value	Meter Value	*Acceptance Criteria (PM)
<0.1 Standard	NTU	<0.1	<0.1	_____	+/- 0.3 NTU of stan.
20 Standard	NTU	20	20	_____	+/- 5% of standard
100 Standard	NTU	100	100	_____	+/- 5% of standard
800 Standard	NTU	800	800	_____	+/- 5% of standard

PHOTOIONIZATION DETECTOR

METER TYPE Mini VAE

MODEL NO. 2800

UNIT ID NO. MO01-G

Background	ppmv	<0.1	<u>0.0</u>	<0.1	<u>0.0</u>	within 5 ppmv of BG
Span Gas	ppmv	100	<u>101</u>	100	<u>101</u>	+/- 10% of standard

O₂-LEL & GAS METER

METER TYPE _____

MODEL NO. _____

UNIT ID NO. _____

Methane	%	50	50	_____	+/- 10% of standard
O ₂	%	20.9	20.9	_____	+/- 10% of standard
H ₂ S	ppmv	25	25	_____	+/- 10% of standard
CO	ppmv	50	50	_____	+/- 10% of standard

OTHER METER

METER TYPE PDR

MODEL NO. 1000AN

UNIT ID NO. 13032

<u>Particulate</u>	_____	_____	_____	_____	See Notes Below for Additional Information
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

- ☒ Equipment calibrated within the Acceptance Criteria specified for each of the parameters listed above.
☐ Equipment (not) calibrated within the Acceptance Criteria specified for each of the parameters listed above**.

MATERIALS RECORD

Deionized Water Source: Portland FOS
 Lot#/Date Produced: _____
 Trip Blank Source: Laboratory provided
 Sample Preservatives Source: Laboratory provided
 Disposable Filter Type: in-line 0.45µm cellulose
 Calibration Fluids / Standard Source:
 - DO Calibration Fluid (<0.1 mg/L) Portland FOS
 - Other _____
 - Other _____
 - Other _____

	Cal. Standard Lot Number	Exp. Date
pH (4)	_____	_____
pH (7)	_____	_____
pH (10)	_____	_____
ORP	_____	_____
Conductivity	_____	_____
<0.1 Turb. Stan.	_____	_____
20 Turb. Stan.	_____	_____
100 Turb. Stan.	_____	_____
800 Turb. Stan.	_____	_____
PID Span Gas	<u>T. Solubility</u>	_____
O ₂ -LEL Span Gas	_____	_____
Other	_____	_____

NOTES:

* = Unless otherwise noted, calibration procedures and acceptance criteria are in general accordance with USEPA Region 1 SOPs for Field Instrument Calibration (EQASOP-FieldCalibrat) and Low Stress Purging and Sampling (EQASOP-GW001), each dated 1/19/2010. Additional acceptance criteria obtained from instrument specific manufacturer recommendations.

** = If meter reading is not within acceptance criteria, clean/replace probe and re-calibrate, or use calibrated back-up meter if available. If project requirements necessitate use of the instrument, clearly document any deviations from acceptance criteria on all data sheets and log book entries.

1 = DO Saturated standard value is calculated based on Oxygen Solubility at Indicated Pressure Chart from the USEPA Region 1 SOP for Field Instrument Calibration (EQASOP-FieldCalibrat), dated 1/19/2010.



511 Congress Street, Portland Maine 04101

FIELD INSTRUMENT CALIBRATION RECORD

FIELD INSTRUMENT CALIBRATION RECORD

PROJECT NAME: Acc Cleaner TASK NO: 828133 DATE: 6/10/21
 PROJECT NUMBER: 3616 206125.02 MACTEC CREW: Ben Beaulieu
 PROJECT LOCATION: Brookport VT SAMPLER NAME: Ben Beaulieu
 WEATHER CONDITIONS (AM): Sunny 70° SAMPLER SIGNATURE: [Signature]
 WEATHER CONDITIONS (PM): Sunny 85° CHECKED BY: JR DATE: 5/13/21

MULTI-PARAMETER WATER QUALITY METER

METER TYPE _____

MODEL NO. _____

UNIT ID NO. _____

AM CALIBRATION

Start Time 0700 / End Time 0710

	Units	Standard Value	Meter Value	*Acceptance Criteria (AM)
pH (4)	SU	4.0	_____	+/- 0.1 pH Units
pH (7)	SU	7.0	_____	+/- 0.1 pH Units
pH (10)	SU	10.0	_____	+/- 0.1 pH Units
Redox	+/- mV	240	_____	+/- 10 mV
Conductivity	mS/cm	1.413	_____	+/- 0.5 % of standard
DO (saturated)	%	100	_____	+/- 2% of standard
DO (saturated)	mg/L (see Chart 1)	_____	_____	+/- 0.2 mg/L
DO (<0.1)	mg/L	<0.1	_____	< 0.5 mg/L
Temperature	°C	_____	_____	_____
Baro. Press.	mmHg	_____	_____	_____

POST CALIBRATION CHECK

Start Time 1300 / End Time 1310

	Standard Value	Meter Value	*Acceptance Criteria (PM)
pH (4)	_____	_____	+/- 0.3 pH Units
pH (7)	7.0	_____	+/- 0.3 pH Units
pH (10)	_____	_____	+/- 0.3 pH Units
Redox	240	_____	+/- 10 mV
Conductivity	1.413	_____	+/- 5% of standard
DO (saturated)	_____	_____	+/- 0.5 mg/L of standard
DO (<0.1)	_____	_____	+/- 0.5 mg/L of standard
Temperature	_____	_____	_____
Baro. Press.	_____	_____	_____

TURBIDITY METER

METER TYPE _____

MODEL NO. _____

UNIT ID NO. _____

	Units	Standard Value	Meter Value	*Acceptance Criteria (PM)
<0.1 Standard	NTU	<0.1	_____	+/- 0.3 NTU of stan.
20 Standard	NTU	20	_____	+/- 5% of standard
100 Standard	NTU	100	_____	+/- 5% of standard
800 Standard	NTU	800	_____	+/- 5% of standard

PHOTOIONIZATION DETECTOR

METER TYPE Mini RAE

MODEL NO. 2000

UNIT ID NO. 100-60

Background	ppmv	<0.1	<u>0.0</u>	<0.1	<u>0.0</u>	within 5 ppmv of BG
Span Gas	ppmv	100	<u>101</u>	100	<u>101</u>	+/- 10% of standard

O₂-LEL 4 GAS METER

METER TYPE _____

MODEL NO. _____

UNIT ID NO. _____

Methane	%	50	_____	50	_____	+/- 10% of standard
O ₂	%	20.9	_____	20.9	_____	+/- 10% of standard
H ₂ S	ppmv	25	_____	25	_____	+/- 10% of standard
CO	ppmv	50	_____	50	_____	+/- 10% of standard

OTHER METER

METER TYPE PDR

MODEL NO. 1000AW

UNIT ID NO. 13032

Particulate	_____	_____	_____	_____	_____	See Notes Below for Additional Information
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☒ Equipment calibrated within the Acceptance Criteria specified for each of the parameters listed above.

☐ Equipment (not) calibrated within the Acceptance Criteria specified for each of the parameters listed above**.

MATERIALS RECORD

Deionized Water Source: Portland FOS
 Lot#/Date Produced: _____
 Trip Blank Source: Laboratory provided
 Sample Preservatives Source: Laboratory provided
 Disposable Filter Type: in-line 0.45µm cellulose
 Calibration Fluids / Standard Source:
 - DO Calibration Fluid (<0.1 mg/L) Portland FOS
 - Other _____
 - Other _____
 - Other _____

	Cal. Standard Lot Number	Exp. Date
pH (4)	_____	_____
pH (7)	_____	_____
pH (10)	_____	_____
ORP	_____	_____
Conductivity	_____	_____
<0.1 Turb. Stan.	_____	_____
20 Turb. Stan.	_____	_____
100 Turb. Stan.	_____	_____
800 Turb. Stan.	_____	_____
PID Span Gas	<u>NR</u>	<u>NR</u>
O ₂ -LEL Span Gas	_____	_____
Other	_____	_____

NOTES:

None

* = Unless otherwise noted, calibration procedures and acceptance criteria are in general accordance with USEPA Region 1 SOPs for Field Instrument Calibration (EQASOP-FieldCalibrat) and Low Stress Purging and Sampling (EQASOP-GW001), each dated 1/19/2010. Additional acceptance criteria obtained from instrument specific manufacturer recommendations.

** = If meter reading is not within acceptance criteria, clean/replace probe and re-calibrate, or use calibrated back-up meter if available. If project requirements necessitate use of the instrument, clearly document any deviations from acceptance criteria on all data sheets and log book entries.

1 = DO Saturated standard value is calculated based on Oxygen Solubility at Indicated Pressure Chart from the USEPA Region 1 SOP for Field Instrument Calibration (EQASOP-FieldCalibrat), dated 1/19/2010.

MACTEC
 511 Congress Street, Portland Maine 04101

FIELD INSTRUMENT CALIBRATION RECORD

FIELD INSTRUMENT CALIBRATION RECORD

PROJECT NAME: ACE Cleaners
 PROJECT NUMBER: 3616306128-01
 PROJECT LOCATION: Brockport NY
 WEATHER CONDITIONS (AM): Sunny 65°F
 WEATHER CONDITIONS (PM): Sunny 85°F

TASK NO: _____ DATE: 08/03/21
 MACTEC CREW: Ben Paulus
 SAMPLER NAME: Ben Paulus
 SAMPLER SIGNATURE: [Signature]
 CHECKED BY: [Signature] DATE: 8/13/21

MULTI-PARAMETER WATER QUALITY METER

METER TYPE: YSI
 MODEL NO.: 556
 UNIT ID NO.: MO15-07

Start Time: 0733 / End Time: 0800?

Units	Standard Value	Meter Value	*Acceptance Criteria (AM)
pH (4)	SU 4.0	<u>3.95</u>	+/- 0.1 pH Units
pH (7)	SU 7.0	<u>7.02</u>	+/- 0.1 pH Units
pH (10)	SU 10.0	<u>10.0</u>	+/- 0.1 pH Units
Redox	+/- mV 240	<u>243</u>	+/- 10 mV
Conductivity	mS/cm 1.413	<u>1.345</u>	+/- 0.5 % of standard
DO (saturated)	% 100	<u>100</u>	+/- 2% of standard
DO (saturated) mg/L (see Chart 1)		<u>100</u>	+/- 0.2 mg/L
DO (<0.1)	mg/L <0.1	<u>100</u>	< 0.5 mg/L
Temperature	°C	<u>100</u>	
Baro. Press.	mmHg	<u>100</u>	

Ready?

POST CALIBRATION CHECK

Start Time: 1600 / End Time: 1615

Standard Value	Meter Value	*Acceptance Criteria (PM)
7.0	<u>7.00</u>	+/- 0.3 pH Units
240	<u>242</u>	+/- 10 mV
1.413	<u>1.410</u>	+/- 5% of standard
	<u>100</u>	+/- 0.5 mg/L of standard

TURBIDITY METER

METER TYPE: HACH
 MODEL NO.: 2100C
 UNIT ID NO.: MO24-39

Units	Standard Value	Meter Value
10 Standard	NTU 10	<u>9.94</u>
20 Standard	NTU 20	<u>19.4</u>
100 Standard	NTU 100	<u>101</u>
800 Standard	NTU 800	<u>772</u>

Standard Value	Meter Value	*Acceptance Criteria (PM)
10	<u>9.96</u>	+/- 0.3 NTU of stan.
20	<u>19.4</u>	+/- 5% of standard
100	<u>101</u>	+/- 5% of standard
800	<u>770</u>	+/- 5% of standard

PHOTOIONIZATION DETECTOR

METER TYPE: Mini PAC
 MODEL NO.: 2000
 UNIT ID NO.: M00160

Background	ppmv	<0.1
Span Gas	ppmv 100	<u>101</u>

Background	ppmv	<0.1
Span Gas	ppmv 100	<u>101</u>

+/- 10% of standard

O₂-LEL 4 GAS METER

METER TYPE: _____
 MODEL NO.: _____
 UNIT ID NO.: _____

Methane	%	50
O ₂ <td>% <td>20.9</td> </td>	% <td>20.9</td>	20.9
H ₂ S	ppmv	25
CO	ppmv	50

Methane	%	50
O ₂ <td>% <td>20.9</td> </td>	% <td>20.9</td>	20.9
H ₂ S	ppmv	25
CO	ppmv	50

+/- 10% of standard

OTHER METER

METER TYPE: PDR
 MODEL NO.: 1000AN
 UNIT ID NO.: 13032

Particulate

See Notes Below for Additional Information

- ☒ Equipment calibrated within the Acceptance Criteria specified for each of the parameters listed above.
☐ Equipment (not) calibrated within the Acceptance Criteria specified for each of the parameters listed above**.

MATERIALS RECORD

Deionized Water Source: Portland FOS
 Lot#/Date Produced: _____
 Trip Blank Source: Laboratory provided
 Sample Preservatives Source: Laboratory provided
 Disposable Filter Type: m-line 0.45µm cellulose
 Calibration Fluids / Standard Source: Portland FOS
 - DO Calibration Fluid (<0.1 mg/L)
 - Other _____
 - Other _____
 - Other _____

Cal. Standard Lot Number	Exp. Date
pH (4)	
pH (7)	
pH (10)	
ORP	
Conductivity	
10 Turb. Stan.	
20 Turb. Stan.	
100 Turb. Stan.	
800 Turb. Stan.	
PID Span Gas	
O ₂ -LEL Span Gas	
Other	

NOTES: Missing calibration data for D.O., and missing Cal standard lot #s and Exp Date

* = Unless otherwise noted, calibration procedures and acceptance criteria are in general accordance with USEPA Region 1 SOPs for Field Instrument Calibration (EQASOP-FieldCalibrat) and Low Stress Purging and Sampling (EQASOP-GW001), each dated 1/19/2010. Additional acceptance criteria obtained from instrument specific manufacturer recommendations.

** = If meter reading is not within acceptance criteria, clean/replace probe and re-calibrate, or use calibrated back-up meter if available. If project requirements necessitate use of the instrument, clearly document any deviations from acceptance criteria on all data sheets and log book entries.

1 = DO Saturated standard value is calculated based on Oxygen Solubility at Indicated Pressure Chart from the USEPA Region 1 SOP for Field Instrument Calibration (EQASOP-FieldCalibrat), dated 1/19/2010.

FIELD INSTRUMENT CALIBRATION RECORD

PROJECT NAME: Ace Cleaner
 PROJECT NUMBER: 3616206125.02
 PROJECT LOCATION: Brookport NY
 WEATHER CONDITIONS (AM): Sunny 65°F
 WEATHER CONDITIONS (PM): Sunny 85°F

TASK NO: 12353 DATE: 08/05/21
 MACTEC CREW: Ben Paulus
 SAMPLER NAME: Ben Paulus
 SAMPLER SIGNATURE: [Signature]
 CHECKED BY: JR DATE: 8/19/21

MULTI-PARAMETER WATER QUALITY METER

METER TYPE: YSI
 MODEL NO.: 556
 UNIT ID NO.: M015-07

AM CALIBRATION

Start Time 0730 / End Time 0900

	Units	Standard Value	Meter Value	*Acceptance Criteria (AM)
pH (4)	SU	4.0	<u>3.95</u>	+/- 0.1 pH Units
pH (7)	SU	7.0	<u>7.02</u>	+/- 0.1 pH Units
pH (10)	SU	10.0	<u>-</u>	+/- 0.1 pH Units
Redox	+/- mV	240	<u>243</u>	+/- 10 mV
Conductivity	mS/cm	1.413	<u>1.385</u>	+/- 0.5 % of standard
DO (saturated)	%	100	<u>NR</u>	+/- 2% of standard
DO (saturated) mg/L ¹ (see Chart 1)	mg/L	<u>NR</u>	<u>NR</u>	+/- 0.2 mg/L
DO (<0.1)	mg/L	<0.1	<u>-</u>	< 0.5 mg/L
Temperature	°C		<u>NR</u>	
Baro. Press.	mmHg		<u>NR</u>	

POST CALIBRATION CHECK

Start Time 1600 / End Time 1615

	Standard Value	Meter Value	*Acceptance Criteria (PM)
pH	7.0	<u>7.00</u>	+/- 0.3 pH Units
Redox	240	<u>242</u>	+/- 10 mV
Conductivity	1.413	<u>1.400</u>	+/- 5% of standard
DO (saturated)	<u>NR</u>	<u>NR</u>	+/- 0.5 mg/L of standard
Temperature	<u>NR</u>	<u>NR</u>	
Baro. Press.	<u>NR</u>	<u>NR</u>	

TURBIDITY METER

METER TYPE: Hach
 MODEL NO.: 2100R
 UNIT ID NO.: M024-39

	Units	Standard Value	Meter Value
10 Standard	NTU	<u>10</u>	<u>9.94</u>
20 Standard	NTU	20	<u>19.4</u>
100 Standard	NTU	100	<u>101</u>
800 Standard	NTU	800	<u>772</u>

	Standard Value	Meter Value	*Acceptance Criteria (PM)
10 Standard	<u>10</u>	<u>9.96</u>	+/- 0.3 NTU of stan.
20 Standard	20	<u>19.4</u>	+/- 5% of standard
100 Standard	100	<u>101</u>	+/- 5% of standard
800 Standard	800	<u>780</u>	+/- 5% of standard

PHOTOIONIZATION DETECTOR

METER TYPE: MIRA LAE
 MODEL NO.: 2000
 UNIT ID NO.: M0060

Background	ppmv	<0.1	<u>0.0</u>
Span Gas	ppmv	100	<u>101</u>

<0.1	<u>0.0</u>	within 5 ppmv of BG
100	<u>101</u>	+/- 10% of standard

O₂-LEL 4 GAS METER

METER TYPE: -
 MODEL NO.: -
 UNIT ID NO.: -

Methane	%	50	<u>-</u>
O ₂	%	20.9	<u>-</u>
H ₂ S	ppmv	25	<u>-</u>
CO	ppmv	50	<u>-</u>

50	<u>-</u>	+/- 10% of standard
20.9	<u>-</u>	+/- 10% of standard
25	<u>-</u>	+/- 10% of standard
50	<u>-</u>	+/- 10% of standard

OTHER METER

METER TYPE: PDR
 MODEL NO.: 100AP
 UNIT ID NO.: 13032

Particulate			

See Notes Below for Additional Information



Equipment calibrated within the Acceptance Criteria specified for each of the parameters listed above.



Equipment (not) calibrated within the Acceptance Criteria specified for each of the parameters listed above**.

MATERIALS RECORD

Deionized Water Source: Portland FOS
 Lot#/Date Produced: -
 Trip Blank Source: Laboratory provided
 Sample Preservatives Source: Laboratory provided
 Disposable Filter Type: in-line 0.45µm cellulose
 Calibration Fluids / Standard Source:
 - DO Calibration Fluid (<0.1 mg/L) Portland FOS
 - Other -
 - Other -
 - Other -

	Cal. Standard Lot Number	Exp. Date
pH (4)	<u>06J904</u>	<u>10/22</u>
pH (7)	<u>06J268</u>	<u>10/22</u>
pH (10)	<u>-</u>	<u>-</u>
ORP	<u>1517945</u>	<u>3/22</u>
Conductivity	<u>06J968</u>	<u>10/21</u>
10 Turb. Stan.	<u>40230</u>	<u>11/21</u>
20 Turb. Stan.	<u>40231</u>	<u>11/21</u>
100 Turb. Stan.	<u>40239</u>	<u>11/21</u>
800 Turb. Stan.	<u>40239</u>	<u>11/21</u>
PID Span Gas	<u>NR</u>	<u>NR</u>
O ₂ -LEL Span Gas	<u>-</u>	<u>-</u>
Other	<u>-</u>	<u>-</u>

NOTES: Do Calibration not recorded

* = Unless otherwise noted, calibration procedures and acceptance criteria are in general accordance with USEPA Region 1 SOPs for Field Instrument Calibration (EQASOP-FieldCalibrat) and Low Stress Purging and Sampling (EQASOP-GW001), each dated 1/19/2010. Additional acceptance criteria obtained from instrument specific manufacturer recommendations.

** = If meter reading is not within acceptance criteria, clean/replace probe and re-calibrate, or use calibrated back-up meter if available. If project requirements necessitate use of the instrument, clearly document any deviations from acceptance criteria on all data sheets and log book entries.

1 = DO Saturated standard value is calculated based on Oxygen Solubility at Indicated Pressure Chart from the USEPA Region 1 SOP for Field Instrument Calibration (EQASOP-FieldCalibrat), dated 1/19/2010.



511 Congress Street, Portland Maine 04101

FIELD INSTRUMENT CALIBRATION RECORD

FIELD INSTRUMENT CALIBRATION RECORD

PROJECT NAME: Acc Cleaner
 PROJECT NUMBER: 3066306125.02
 PROJECT LOCATION: B-0016port NY
 WEATHER CONDITIONS (AM): Clear 67°F
 WEATHER CONDITIONS (PM): _____

TASK NO: 828133 DATE: 08/04/21
 MACTEC CREW: Ben Paulus
 SAMPLER NAME: Ben Paulus
 SAMPLER SIGNATURE: _____
 CHECKED BY: Almiff DATE: 8/13/21

MULTI-PARAMETER WATER QUALITY METER

METER TYPE: NSE
 MODEL NO.: 556
 UNIT ID NO.: M01507

AM CALIBRATION
 Start Time 0720 / End Time 0732

POST CALIBRATION CHECK
 Start Time 1345 / End Time 1347

	Units	Standard Value	Meter Value	*Acceptance Criteria (AM)
pH (4)	SU	4.0	<u>4.00</u>	+/- 0.1 pH Units
pH (7)	SU	7.0	<u>7.09</u>	+/- 0.1 pH Units
pH (10)	SU	10.0	<u>—</u>	+/- 0.1 pH Units
Redox	+/- mV	240	<u>232</u>	+/- 10 mV
Conductivity	mS/cm	1.413	<u>1.439</u>	+/- 0.5 % of standard
DO (saturated)	%	100	<u>—</u>	+/- 2% of standard
DO (saturated) mg/L ¹ (See Chart 1)				+/- 0.2 mg/L
DO (<0.1)	mg/L	<0.1	<u>—</u>	< 0.5 mg/L
Temperature	°C			
Baro. Press.	mmHg			

	Standard Value	Meter Value	*Acceptance Criteria (PM)
pH (4)		<u>6.89</u>	+/- 0.3 pH Units
pH (7)		<u>—</u>	
pH (10)		<u>—</u>	
Redox		<u>237</u>	+/- 10 mV
Conductivity		<u>1.445</u>	+/- 5% of standard
DO (saturated)		<u>—</u>	
DO (<0.1)		<u>—</u>	+/- 0.5 mg/L of standard
Temperature		<u>—</u>	
Baro. Press.		<u>—</u>	

TURBIDITY METER

METER TYPE: H202
 MODEL NO.: 21000
 UNIT ID NO.: M024-39

	Units	Standard Value	Meter Value	*Acceptance Criteria (PM)
10 Standard	NTU	10	<u>10.1</u>	+/- 0.2 NTU of stan.
20 Standard	NTU	20	<u>19.9</u>	+/- 5% of standard
100 Standard	NTU	100	<u>99.9</u>	+/- 5% of standard
800 Standard	NTU	800	<u>812</u>	+/- 5% of standard

	Standard Value	Meter Value	*Acceptance Criteria (PM)
10 Standard		<u>10.1</u>	+/- 0.2 NTU of stan.
20 Standard		<u>19.9</u>	+/- 5% of standard
100 Standard		<u>99.9</u>	+/- 5% of standard
800 Standard		<u>812</u>	+/- 5% of standard

PHOTOIONIZATION DETECTOR

METER TYPE: _____
 MODEL NO.: _____
 UNIT ID NO.: _____

Background	ppmv	<0.1	
Span Gas	ppmv	100	

Background		<0.1	within 5 ppmv of BG
Span Gas		100	+/- 10% of standard

O₂-LEL 4 GAS METER

METER TYPE: _____
 MODEL NO.: _____
 UNIT ID NO.: _____

Methane	%	50	
O ₂	%	20.9	
H ₂ S	ppmv	25	
CO	ppmv	50	

Methane		50	+/- 10% of standard
O ₂		20.9	+/- 10% of standard
H ₂ S		25	+/- 10% of standard
CO		50	+/- 10% of standard

OTHER METER

METER TYPE: _____
 MODEL NO.: _____
 UNIT ID NO.: _____

See Notes Below for Additional Information

- ☒ Equipment calibrated within the Acceptance Criteria specified for each of the parameters listed above.
☐ Equipment (not) calibrated within the Acceptance Criteria specified for each of the parameters listed above**.

MATERIALS RECORD

Deionized Water Source: Portland FOS
 Lot#/Date Produced: _____
 Trip Blank Source: Laboratory provided
 Sample Preservatives Source: Laboratory provided
 Disposable Filter Type: in-line 0.45µm cellulose
 Calibration Fluids / Standard Source:
 - DO Calibration Fluid (<0.1 mg/L) Portland FOS
 - Other _____
 - Other _____
 - Other _____

Cal. Standard Lot Number	Exp. Date
pH (4)	
pH (7)	
pH (10)	
ORP	
Conductivity	
10 Turb. Stan.	
20 Turb. Stan.	
100 Turb. Stan.	
800 Turb. Stan.	
PID Span Gas	
O ₂ -LEL Span Gas	
Other	

NOTES: Missing calibration data for DO, and missing Cal standard lot #'s and Exp Dates

* = Unless otherwise noted, calibration procedures and acceptance criteria are in general accordance with USEPA Region 1 SOPs for Field Instrument Calibration (EQASOP-FieldCalibrat) and Low Stress Purging and Sampling (EQASOP-GW001), each dated 1/19/2010. Additional acceptance criteria obtained from instrument specific manufacturer recommendations.

** = If meter reading is not within acceptance criteria, clean/replace probe and re-calibrate, or use calibrated back-up meter if available. If project requirements necessitate use of the instrument, clearly document any deviations from acceptance criteria on all data sheets and log book entries.

1 = DO Saturated standard value is calculated based on Oxygen Solubility at Indicated Pressure Chart from the USEPA Region 1 SOP for Field Instrument Calibration (EQASOP-FieldCalibrat), dated 1/19/2010.

FIELD INSTRUMENT CALIBRATION RECORD

PROJECT NAME: Ace Cleaner
 PROJECT NUMBER: 3616206125.02
 PROJECT LOCATION: Brookport NY
 WEATHER CONDITIONS (AM): Clear 67
 WEATHER CONDITIONS (PM): Clear 87

TASK NO: 828133 DATE: 08/04/21
 MACTEC CREW: Brian Boush
 SAMPLER NAME: Brian Boush
 SAMPLER SIGNATURE: [Signature]
 CHECKED BY: JR DATE: 8/13/21

MULTI-PARAMETER WATER QUALITY METER

METER TYPE: YSI
 MODEL NO.: 556
 UNIT ID NO.: 1101567

AM CALIBRATION
 Start Time 0720 / End Time 0730

POST CALIBRATION CHECK
 Start Time 1315 / End Time 1345

	Units	Standard Value	Meter Value	*Acceptance Criteria (AM)
pH (4)	SU	4.0	<u>4.00</u>	+/- 0.1 pH Units
pH (7)	SU	7.0	<u>7.09</u>	+/- 0.1 pH Units
pH (10)	SU	10.0	<u>—</u>	+/- 0.1 pH Units
Redox	+/- mV	240	<u>232</u>	+/- 10 mV
Conductivity	mS/cm	1.413	<u>1.459</u>	+/- 0.5 % of standard
DO (saturated)	%	100	<u>NR</u>	+/- 2% of standard
DO (saturated) mg/L ¹ (see Chart 1)		<u>NR</u>	<u>NR</u>	+/- 0.2 mg/L
DO (<0.1)	mg/L	<0.1	<u>—</u>	< 0.5 mg/L
Temperature	°C		<u>NR</u>	
Baro. Press.	mmHg		<u>NR</u>	

	Standard Value	Meter Value	*Acceptance Criteria (PM)
pH (4)	7.0	<u>6.89</u>	+/- 0.3 pH Units
Redox	240	<u>237</u>	+/- 10 mV
Conductivity	1.413	<u>1.445</u>	+/- 5% of standard
DO (saturated)	<u>NR</u>	<u>NR</u>	+/- 0.5 mg/L of standard
DO (<0.1)	<u>NR</u>	<u>NR</u>	
Temperature	<u>NR</u>	<u>NR</u>	
Baro. Press.	<u>NR</u>	<u>NR</u>	

TURBIDITY METER

METER TYPE: Hach
 MODEL NO.: 2100a
 UNIT ID NO.: 11024-39

	Units	Standard Value	Meter Value
10 Standard	NTU	10	<u>—</u>
20 Standard	NTU	20	<u>19.9</u>
100 Standard	NTU	100	<u>98.9</u>
800 Standard	NTU	800	<u>812</u>

	Standard Value	Meter Value	*Acceptance Criteria (PM)
10 Standard	10	<u>—</u>	+/- 0.3 NTU of stan.
20 Standard	20	<u>19.9</u>	+/- 5% of standard
100 Standard	100	<u>97.3</u>	+/- 5% of standard
800 Standard	800	<u>810</u>	+/- 5% of standard

PHOTOIONIZATION DETECTOR

METER TYPE: Background
 MODEL NO.: —
 UNIT ID NO.: —

	Units	Standard Value	Meter Value
Background	ppmv	<0.1	<u>—</u>
Span Gas	ppmv	100	<u>—</u>

	Standard Value	Meter Value	*Acceptance Criteria (PM)
Background	<0.1	<u>—</u>	within 5 ppmv of BG
Span Gas	100	<u>—</u>	+/- 10% of standard

O₂-LEL 4 GAS METER

METER TYPE: —
 MODEL NO.: —
 UNIT ID NO.: —

	Units	Standard Value	Meter Value
Methane	%	50	<u>—</u>
O ₂	%	20.9	<u>—</u>
H ₂ S	ppmv	25	<u>—</u>
CO	ppmv	50	<u>—</u>

	Standard Value	Meter Value	*Acceptance Criteria (PM)
Methane	50	<u>—</u>	+/- 10% of standard
O ₂	20.9	<u>—</u>	+/- 10% of standard
H ₂ S	25	<u>—</u>	+/- 10% of standard
CO	50	<u>—</u>	+/- 10% of standard

OTHER METER

METER TYPE: —
 MODEL NO.: —
 UNIT ID NO.: —

	Units	Standard Value	Meter Value
—	—	—	—
—	—	—	—
—	—	—	—

	Standard Value	Meter Value	*Acceptance Criteria (PM)
—	—	—	See Notes Below for Additional Information
—	—	—	
—	—	—	

- ☒ Equipment calibrated within the Acceptance Criteria specified for each of the parameters listed above.
☐ Equipment (not) calibrated within the Acceptance Criteria specified for each of the parameters listed above**.

MATERIALS RECORD

Deionized Water Source: Portland FOS
 Lot#/Date Produced: —
 Trip Blank Source: Laboratory provided
 Sample Preservatives Source: Laboratory provided
 Disposable Filter Type: in-line 0.45µm cellulose
 Calibration Fluids / Standard Source:
 - DO Calibration Fluid (<0.1 mg/L) Portland FOS
 - Other —
 - Other —
 - Other —

	Cal. Standard Lot Number	Exp. Date
pH (4)	<u>06JY64</u>	<u>5/22</u>
pH (7)	<u>06JY68</u>	<u>10/22</u>
pH (10)	<u>—</u>	<u>—</u>
ORP	<u>16F945</u>	<u>3/22</u>
Conductivity	<u>122J968</u>	<u>11/21</u>
<0.1 Turb. Stan.	<u>10230</u>	<u>11/21</u>
20 Turb. Stan.	<u>10231</u>	<u>11/21</u>
100 Turb. Stan.	<u>10239</u>	<u>11/21</u>
800 Turb. Stan.	<u>10239</u>	<u>11/21</u>
PID Span Gas	<u>—</u>	<u>—</u>
O ₂ -LEL Span Gas	<u>—</u>	<u>—</u>
Other	<u>—</u>	<u>—</u>

NOTES: Abbr Do not recorded during calibration

* = Unless otherwise noted, calibration procedures and acceptance criteria are in general accordance with USEPA Region 1 SOPs for Field Instrument Calibration (EQASOP-FieldCalibrat) and Low Stress Purging and Sampling (EQASOP-GW001), each dated 1/19/2010. Additional acceptance criteria obtained from instrument specific manufacturer recommendations.

** = If meter reading is not within acceptance criteria, clean/replace probe and re-calibrate, or use calibrated back-up meter if available. If project requirements necessitate use of the instrument, clearly document any deviations from acceptance criteria on all data sheets and log book entries.

1 = DO Saturated standard value is calculated based on Oxygen Solubility at Indicated Pressure Chart from the USEPA Region 1 SOP for Field Instrument Calibration (EQASOP-FieldCalibrat), dated 1/19/2010.

FIELD INSTRUMENT CALIBRATION RECORD

PROJECT NAME: <u>Ace Cleaners</u>	TASK NO: <u>2</u>	DATE: <u>10/4/2021</u>
PROJECT NUMBER: <u>3616206125.02</u>	MACTEC CREW: <u>Ben Paulus</u>	
PROJECT LOCATION: <u>Brockport, NY</u>	SAMPLER NAME: <u>Ben Paulus</u>	
WEATHER CONDITIONS (AM): <u>65 F, Raining</u>	SAMPLER SIGNATURE: <u>Ben Paulus</u>	
WEATHER CONDITIONS (PM): <u>68 F, Raining</u>	CHECKED BY: <u>C. Staples</u>	DATE: <u>11/1/2021</u>

MULTI-PARAMETER WATER QUALITY METER

METER TYPE YSI

MODEL NO. 556

UNIT ID NO. M015-01

AM CALIBRATION

Start Time 0725 /End Time 0755

	Units	Standard Value	Meter Value	*Acceptance Criteria (AM)
pH (4)	SU	4.0	4.00	+/- 0.1 pH Units
pH (7)	SU	7.0	6.9	+/- 0.1 pH Units
pH (10)	SU	10.0	NM	+/- 0.1 pH Units
Redox	+/- mV	240	248.4	+/- 10 mV
Conductivity	mS/cm	1.413	1.393	+/- 0.5 % of standard
DO (saturated)	%	100	98.8	+/- 2% of standard
DO (saturated) mg/L ¹ (see Chart 1)		9.05	8.86	+/- 0.2 mg/L
DO (<0.1)	mg/L	<0.1	NA	< 0.5 mg/L
Temperature	°C		19.46	
Baro. Press.	mmHg		744	

POST CALIBRATION CHECK

Start Time 1525 /End Time 1545

Standard Value	Meter Value	*Acceptance Criteria (PM)
7.0	7.5	+/- 0.3 pH Units
240	239.3	+/- 10 mV
1.413	1.394	+/- 5% of standard
9.44	9.38	+/- 0.5 mg/L of standard
	17.31	
	746.4	

TURBIDITY METER

METER TYPE Hach

MODEL NO. 2100Q

UNIT ID NO. M024-41

Units	Standard Value	Meter Value
<0.1 Standard	NTU	10
20 Standard	NTU	20
100 Standard	NTU	99
800 Standard	NTU	803

Standard Value	Meter Value	*Acceptance Criteria (PM)
10	10	+/- 0.3 NTU of stan.
20	21	+/- 5% of standard
100	103	+/- 5% of standard
800	802	+/- 5% of standard

PHOTOIONIZATION DETECTOR

METER TYPE Background ppmv <0.1

MODEL NO. Span Gas ppmv 100

UNIT ID NO. 100

<0.1	within 5 ppmv of BG
100	+/- 10% of standard

O₂-LEL 4 GAS METER

METER TYPE Methane % 50

MODEL NO. O₂ % 20.9

UNIT ID NO. H₂S ppmv 25

CO ppmv 50

50	+/- 10% of standard
20.9	+/- 10% of standard
25	+/- 10% of standard
50	+/- 10% of standard

OTHER METER

METER TYPE _____

MODEL NO. _____

UNIT ID NO. _____

See Notes Below for Additional Information

☒

Equipment calibrated within the Acceptance Criteria specified for each of the parameters listed above. (Post cal pH was slightly high, but considered OK).

☐

Equipment (not) calibrated within the Acceptance Criteria specified for each of the parameters listed above**.

MATERIALS RECORD

Deionized Water Source: Portland FOS

Lot#/Date Produced: _____

Trip Blank Source: Laboratory provided

Sample Preservatives Source: Laboratory provided

Disposable Filter Type: in-line 0.45µm cellulose

Calibration Fluids / Standard Source:

- DO Calibration Fluid (<0.1 mg/L) Portland FOS

- Other _____

- Other _____

- Other _____

	Cal. Standard Lot Number	Exp. Date
pH (4)	0GJ904	Oct-22
pH (7)	0GJ268	Oct-22
pH (10)	NA	NA
ORP	1GF945	Mar-22
Conductivity	0GJ968	Oct-22
10 Turb. Stan.	NR	NR
20 Turb. Stan.	A1015	Apr-22
100 Turb. Stan.	A0365	Apr-22
800 Turb. Stan.	NR	NR
PID Span Gas		
O ₂ -LEL Span Gas		
Other		

NOTES:

* = Unless otherwise noted, calibration procedures and acceptance criteria are in general accordance with USEPA Region 1 SOPs for Field Instrument Calibration (EQASOP-FieldCalibrat) and Low Stress Purging and Sampling (EQASOP-GW001), each dated 1/19/2010. Additional acceptance criteria obtained from instrument specific manufacturer recommendations.

** = If meter reading is not within acceptance criteria, clean/replace probe and re-calibrate, or use calibrated back-up meter if available. If project requirements necessitate use of the instrument, clearly document any deviations from acceptance criteria on all data sheets and log book entries.

1 = DO Saturated standard value is calculated based on Oxygen Solubility at Indicated Pressure Chart from the USEPA Region 1 SOP for Field Instrument Calibration (EQASOP-FieldCalibrat), dated 1/19/2010.



FIELD INSTRUMENT CALIBRATION RECORD

FIELD INSTRUMENT CALIBRATION RECORD

PROJECT NAME: Ace C. Leathers
 PROJECT NUMBER: 3616 206125.02
 PROJECT LOCATION: Bochota, N.Y.
 WEATHER CONDITIONS (AM): Cloudy, Breezy, 120°F
 WEATHER CONDITIONS (PM): Partly Cloudy, Breezy, 29°F

TASK NO: 02 DATE: 12/17/21
 MACTEC CREW: MACTEC
 SAMPLER NAME: MACTEC
 SAMPLER SIGNATURE: MACTEC
 CHECKED BY: MACTEC DATE: 12/16/21

MULTI-PARAMETER WATER QUALITY METER

METER TYPE: YSI
 MODEL NO.: 556
 UNIT ID NO.: 02

AM CALIBRATION
 Start Time: 6:20 / End Time: 6:41

	Units	Standard Value	Meter Value	*Acceptance Criteria (AM)
pH (4)	SU	4.0	<u>4.00</u>	+/- 0.1 pH Units
pH (7)	SU	7.0	<u>7.00</u>	+/- 0.1 pH Units
pH (10)	SU	10.0	<u>10.00</u>	+/- 0.1 pH Units
Redox	+/- mV	240	<u>240</u>	+/- 10 mV
Conductivity	mS/cm	1.413	<u>1.413</u>	+/- 0.5 % of standard
DO (saturated)	%	100	<u>98.1</u>	+/- 2% of standard
DO (saturated) mg/L ¹ (see Chart 1)		<u>9.05</u>	<u>9.07</u>	+/- 0.2 mg/L
DO (<0.1)	mg/L	<0.1	<u>19.11</u>	<0.5 mg/L
Temperature	°C		<u>74.5</u>	
Baro. Press.	mmHg		<u>745.4</u>	

POST CALIBRATION CHECK
 Start Time: 17:01 / End Time: 17:30

	Standard Value	Meter Value	*Acceptance Criteria (PM)
pH (7)	7.0	<u>7.03</u>	+/- 0.3 pH Units
Redox	240	<u>238.6</u>	+/- 10 mV
Conductivity	1.413	<u>1.411</u>	+/- 5% of standard
DO (saturated)	9.30	<u>9.37</u>	+/- 0.5 mg/L of standard
Temperature		<u>18.43</u>	
Baro. Press.		<u>747.8</u>	

TURBIDITY METER

METER TYPE: Accu
 MODEL NO.: 21054
 UNIT ID NO.: MD4-42

	Units	Standard Value	Meter Value
<0.1 Standard	NTU	10	<u>10.3</u>
20 Standard	NTU	20	<u>20.1</u>
100 Standard	NTU	100	<u>102</u>
800 Standard	NTU	800	<u>824</u>

	Standard Value	Meter Value	*Acceptance Criteria (PM)
<0.1 Standard	10	<u>9.8</u>	+/- 0.3 NTU of stan.
20 Standard	20	<u>19.6</u>	+/- 5% of standard
100 Standard	100	<u>97.2</u>	+/- 5% of standard
800 Standard	800	<u>806</u>	+/- 5% of standard

PHOTOIONIZATION DETECTOR

METER TYPE: Background
 MODEL NO.:
 UNIT ID NO.:

Standard Value: <0.1
 Meter Value:
 Acceptance Criteria: within 5 ppmv of BG

O₂-LEL 4 GAS METER

METER TYPE: Methane
 MODEL NO.: O₂
 UNIT ID NO.: H₂S
CO

Standard Value: 50
 Meter Value: 20.9
 Acceptance Criteria: +/- 10% of standard

OTHER METER

METER TYPE:
 MODEL NO.:
 UNIT ID NO.:

Standard Value:
 Meter Value:
 Acceptance Criteria: See Notes Below for Additional Information

- ☒ Equipment calibrated within the Acceptance Criteria specified for each of the parameters listed above.
☐ Equipment (not) calibrated within the Acceptance Criteria specified for each of the parameters listed above**.

MATERIALS RECORD

Deionized Water Source: Port 1 ad F O S
 Lot# / Date Produced:
 Trip Blank Source: Laboratory provided
 Sample Preservatives Source: Laboratory provided
 Disposable Filter Type: in-line 0.45µm cellulose
 Calibration Fluids / Standard Source:
 - DO Calibration Fluid (<0.1 mg/L) Portland FOS
 - Other
 - Other
 - Other

	Cal. Standard Lot Number	Exp. Date
pH (4)	<u>1641124</u>	<u>8/23</u>
pH (7)	<u>1641081</u>	<u>9/23</u>
pH (10)	<u>1641081</u>	<u>9/23</u>
ORP	<u>1641081</u>	<u>9/23</u>
Conductivity	<u>1641081</u>	<u>9/23</u>
<0.1 Turb. Stan.	<u>1641081</u>	<u>9/23</u>
20 Turb. Stan.	<u>1641081</u>	<u>9/23</u>
100 Turb. Stan.	<u>1641081</u>	<u>9/23</u>
800 Turb. Stan.	<u>1641081</u>	<u>9/23</u>
PID Span Gas	<u></u>	<u></u>
O ₂ -LEL Span Gas	<u></u>	<u></u>
Other	<u></u>	<u></u>

NOTES:

* = Unless otherwise noted, calibration procedures and acceptance criteria are in general accordance with USEPA Region 1 SOPs for Field Instrument Calibration (EQASOP-FieldCalibrat) and Low Stress Purging and Sampling (EQASOP-GW001), each dated 1/19/2010. Additional acceptance criteria obtained from instrument specific manufacturer recommendations.

** = If meter reading is not within acceptance criteria, clean/replace probe and re-calibrate, or use calibrated back-up meter if available. If project requirements necessitate use of the instrument, clearly document any deviations from acceptance criteria on all data sheets and log book entries.

1 = DO Saturated standard value is calculated based on Oxygen Solubility at Indicated Pressure Chart from the USEPA Region 1 SOP for Field Instrument Calibration (EQASOP-FieldCalibrat), dated 1/19/2010.

FIELD INSTRUMENT CALIBRATION RECORD

PROJECT NAME: Ace Cleaner
 PROJECT NUMBER: 3616206125.02
 PROJECT LOCATION: Brookport NY
 WEATHER CONDITIONS (AM): 28 overcast
 WEATHER CONDITIONS (PM): 29 overcast

TASK NO: 828133 DATE: 12/7/21
 MACTEC CREW: Ben Paulus & Mike Quashary
 SAMPLER NAME: Ben Paulus
 SAMPLER SIGNATURE: [Signature]
 CHECKED BY: [Signature] DATE: 12/16/21

MULTI-PARAMETER WATER QUALITY METER

METER TYPE: VSTA
 MODEL NO.: 556
 UNIT ID NO.: M01505

AM CALIBRATION
 Start Time 0730 / End Time 0815

	Units	Standard Value	Meter Value	*Acceptance Criteria (AM)
pH (4)	SU	4.0	<u>3.93</u>	+/- 0.1 pH Units
pH (7)	SU	7.0	<u>7.09</u>	+/- 0.1 pH Units
pH (10)	SU	10.0	<u>—</u>	+/- 0.1 pH Units
Redox	+/- mV	240	<u>241.9</u>	+/- 10 mV
Conductivity	mS/cm	1.413	<u>1.402</u>	+/- 0.5 % of standard
DO (saturated)	%	100	<u>101.2</u>	+/- 2% of standard
DO (saturated) mg/L ¹ (see Chart 1)		<u>9.3</u>	<u>9.48</u>	+/- 0.2 mg/L
DO (<0.1)	mg/L	<0.1	<u>—</u>	< 0.5 mg/L
Temperature	°C		<u>18.70</u>	
Baro. Press.	mmHg		<u>750</u>	

POST CALIBRATION CHECK
 Start Time 1705 / End Time 1720

	Standard Value	Meter Value	*Acceptance Criteria (PM)
pH	7.0	<u>6.97</u>	+/- 0.3 pH Units
Redox	240	<u>239.1</u>	+/- 10 mV
Conductivity	1.413	<u>1.449</u>	+/- 5% of standard
DO (saturated)	<u>9.30</u>	<u>9.69</u>	+/- 0.5 mg/L of standard
Temperature		<u>18.18</u>	
Baro. Press.		<u>752</u>	

TURBIDITY METER

METER TYPE: Hach
 MODEL NO.: 2100A
 UNIT ID NO.: M02478

	Units	Standard Value	Meter Value
<0.1 Standard	NTU	10	<u>10.2</u>
20 Standard	NTU	20	<u>20.6</u>
100 Standard	NTU	100	<u>99.8</u>
800 Standard	NTU	800	<u>800</u>

	Standard Value	Meter Value	*Acceptance Criteria (PM)
<0.1 Standard	10	<u>9.51</u>	+/- 0.3 NTU of stan.
20 Standard	20	<u>20.2</u>	+/- 5% of standard
100 Standard	100	<u>105</u>	+/- 5% of standard
800 Standard	800	<u>815</u>	+/- 5% of standard

PHOTOIONIZATION DETECTOR

METER TYPE: 124E
 MODEL NO.: 886 3000
 UNIT ID NO.: 14924

Background	ppmv	<0.1	<u>0.11</u>
Span Gas	ppmv	100	<u>10.15</u>

<0.1	<u>0</u>	within 5 ppmv of BG
100	<u>10.03</u>	+/- 10% of standard

O₂-LEL 4 GAS METER

METER TYPE: —
 MODEL NO.: —
 UNIT ID NO.: —

Methane	%	50	<u>—</u>
O ₂	%	20.9	<u>—</u>
H ₂ S	ppmv	25	<u>—</u>
CO	ppmv	<u>147</u>	<u>—</u>

50	<u>—</u>	+/- 10% of standard
20.9	<u>—</u>	+/- 10% of standard
25	<u>—</u>	+/- 10% of standard
50	<u>—</u>	+/- 10% of standard

OTHER METER

METER TYPE: —
 MODEL NO.: —
 UNIT ID NO.: —

See Notes Below for Additional Information

- ☐ Equipment calibrated within the Acceptance Criteria specified for each of the parameters listed above.
☒ Equipment (not) calibrated within the Acceptance Criteria specified for each of the parameters listed above**.

MATERIALS RECORD

Deionized Water Source: Portland FOS
 Lot#/Date Produced: —
 Trip Blank Source: Laboratory provided
 Sample Preservatives Source: Laboratory provided
 Disposable Filter Type: in-line 0.45µm cellulose
 Calibration Fluids / Standard Source:
 - DO Calibration Fluid (<0.1 mg/L) Portland FOS
 - Other —
 - Other —
 - Other —

	Cal. Standard Lot Number	Exp. Date
pH (4)	<u>16H1124</u>	<u>8/23</u>
pH (7)	<u>16H1091</u>	<u>9/23</u>
pH (10)	<u>—</u>	<u>—</u>
ORP	<u>16E945</u>	<u>3/22</u>
Conductivity	<u>16H998</u>	<u>8/22</u>
20 Turb. Stan.	<u>A1013</u>	<u>4/22</u>
100 Turb. Stan.	<u>A1013</u>	<u>4/22</u>
800 Turb. Stan.	<u>A1020</u>	<u>5/22</u>
PID Span Gas	<u>A1020</u>	<u>5/22</u>
O ₂ -LEL Span Gas	<u>50054</u>	<u>3/26</u>
Other	<u>—</u>	<u>—</u>

NOTES: AM 100 NTU Cal'd low

* = Unless otherwise noted, calibration procedures and acceptance criteria are in general accordance with USEPA Region 1 SOPs for Field Instrument Calibration (EQASOP-FieldCalibrat) and Low Stress Purging and Sampling (EQASOP-GW001), each dated 1/19/2010. Additional acceptance criteria obtained from instrument specific manufacturer recommendations.

** = If meter reading is not within acceptance criteria, clean/replace probe and re-calibrate, or use calibrated back-up meter if available. If project requirements necessitate use of the instrument, clearly document any deviations from acceptance criteria on all data sheets and log book entries.

1 = DO Saturated standard value is calculated based on Oxygen Solubility at Indicated Pressure Chart from the USEPA Region 1 SOP for Field Instrument Calibration (EQASOP-FieldCalibrat), dated 1/19/2010.

FIELD INSTRUMENT CALIBRATION RECORD

PROJECT NAME: Ace Cleaner
 PROJECT NUMBER: 3616206125.07
 PROJECT LOCATION: Brookport NY
 WEATHER CONDITIONS (AM): 25° F Snowing
 WEATHER CONDITIONS (PM): 38° F Snowing

TASK NO: 929133 DATE: 12/8/21
 MACTEC CREW: BP ML
 SAMPLER NAME: R. Paulus
 SAMPLER SIGNATURE: [Signature]
 CHECKED BY: [Signature] DATE: 12/10/21

MULTI-PARAMETER WATER QUALITY METER

METER TYPE _____
 MODEL NO. _____
 UNIT ID NO. _____

AM CALIBRATION
 Start Time 0730 / End Time 0735

	Units	Standard Value	Meter Value	*Acceptance Criteria (AM)
pH (4)	SU	4.0		+/- 0.1 pH Units
pH (7)	SU	7.0		+/- 0.1 pH Units
pH (10)	SU	10.0		+/- 0.1 pH Units
Redox	+/- mV	240		+/- 10 mV
Conductivity	mS/cm	1.413		+/- 0.5 % of standard
DO (saturated)	%	100		+/- 2% of standard
DO (saturated)	mg/L ¹ (see Chart 1)			+/- 0.2 mg/L
DO (<0.1)	mg/L	<0.1		< 0.5 mg/L
Temperature	°C			
Baro. Press.	mmHg			

POST CALIBRATION CHECK

Start Time 1640 / End Time 1645

Standard Value	Meter Value	*Acceptance Criteria (PM)
7.0		+/- 0.3 pH Units
240		+/- 10 mV
1.413		+/- 5% of standard
		+/- 0.5 mg/L of standard

TURBIDITY METER

METER TYPE _____
 MODEL NO. _____
 UNIT ID NO. _____

Units Standard Value Meter Value

<0.1 Standard	NTU	10	
20 Standard	NTU	20	
100 Standard	NTU	100	
800 Standard	NTU	800	

Standard Value Meter Value *Acceptance Criteria (PM)

10		+/- 0.3 NTU of stan.
20		+/- 5% of standard
100		+/- 5% of standard
800		+/- 5% of standard

PHOTOIONIZATION DETECTOR

METER TYPE RAE Pp6
 MODEL NO. 3000
 UNIT ID NO. 14924

Background	ppmv	<0.1	<u>0</u>
Span Gas	ppmv	<u>100</u>	<u>9580ppb</u>

<0.1	<u>0</u>	within 5 ppmv of BG
<u>100</u>	<u>16.009</u>	+/- 10% of standard

O₂-LEL 4 GAS METER

METER TYPE _____
 MODEL NO. _____
 UNIT ID NO. _____

Methane	%	50	
O ₂	%	20.9	
H ₂ S	ppmv	25	
CO	ppmv	50	

50		+/- 10% of standard
20.9		+/- 10% of standard
25		+/- 10% of standard
50		+/- 10% of standard

OTHER METER

METER TYPE _____
 MODEL NO. _____
 UNIT ID NO. _____

See Notes Below for Additional Information

- ☒ Equipment calibrated within the Acceptance Criteria specified for each of the parameters listed above.
☐ Equipment (not) calibrated within the Acceptance Criteria specified for each of the parameters listed above**.

MATERIALS RECORD

Deionized Water Source: Portland FOS
 Lot#/Date Produced: _____
 Trip Blank Source: Laboratory provided
 Sample Preservatives Source: Laboratory provided
 Disposable Filter Type: in-line 0.45µm cellulose
 Calibration Fluids / Standard Source:
 - DO Calibration Fluid (<0.1 mg/L) Portland FOS
 - Other _____
 - Other _____
 - Other _____

	Cal. Standard Lot Number	Exp. Date
pH (4)		
pH (7)		
pH (10)		
ORP		
Conductivity		
<0.1 Turb. Stan.		
20 Turb. Stan.		
100 Turb. Stan.		
800 Turb. Stan.		
PID Span Gas	<u>50054</u>	<u>3/25</u>
O ₂ -LEL Span Gas		
Other		

NOTES:

None

* = Unless otherwise noted, calibration procedures and acceptance criteria are in general accordance with USEPA Region 1 SOPs for Field Instrument Calibration (EQASOP-FieldCalibrat) and Low Stress Purging and Sampling (EQASOP-GW001), each dated 1/19/2010. Additional acceptance criteria obtained from instrument specific manufacturer recommendations.

** = If meter reading is not within acceptance criteria, clean/replace probe and re-calibrate, or use calibrated back-up meter if available. If project requirements necessitate use of the instrument, clearly document any deviations from acceptance criteria on all data sheets and log book entries.

1 = DO Saturated standard value is calculated based on Oxygen Solubility at Indicated Pressure Chart from the USEPA Region 1 SOP for Field Instrument Calibration (EQASOP-FieldCalibrat), dated 1/19/2010.



511 Congress Street, Portland Maine 04101

FIELD INSTRUMENT CALIBRATION RECORD

FIELD INSTRUMENT CALIBRATION RECORD

PROJECT NAME: Ace Cleaner
 PROJECT NUMBER: 828133
 PROJECT LOCATION: Brookport NY
 WEATHER CONDITIONS (AM): 40°F Clear
 WEATHER CONDITIONS (PM): 60°F Windy

TASK NO: 2 DATE: 4/5
 MACTEC CREW: BSP BR
 SAMPLER NAME: Bruce Paulus
 SAMPLER SIGNATURE: [Signature]
 CHECKED BY: Maria G DATE: 04/01/22

MULTI-PARAMETER WATER QUALITY METER

METER TYPE: YSI
 MODEL NO.: 556
 UNIT ID NO.: M015-03

Units	Standard Value	Meter Value	*Acceptance Criteria (AM)
pH (4)	SU	4.00	+/- 0.1 pH Units
pH (7)	SU	7.01	+/- 0.1 pH Units
pH (10)	SU	10.0	+/- 0.1 pH Units
Redox	+/- mV	240.3	+/- 10 mV
Conductivity	mS/cm	1413	+/- 0.5 % of standard
DO (saturated)	%	95.4	+/- 2% of standard
DO (saturated) mg/L	1 (see Chart 1)	12.09	+/- 0.2 mg/L
DO (<0.1)	mg/L	<0.1	< 0.5 mg/L
Temperature	°C	5.65	
Baro. Press.	mmHg	742	

POST CALIBRATION CHECK

Start Time: 1400 / End Time: 1510

Standard Value	Meter Value	*Acceptance Criteria (PM)
7.0	6.99	+/- 0.3 pH Units
240	239.8	+/- 10 mV
1.413	1.413	+/- 5% of standard
8.16	8.18	+/- 0.5 mg/L of standard
	24.16	
	745	

TURBIDITY METER

METER TYPE: HACH
 MODEL NO.: 2100A
 UNIT ID NO.: M024-34

Units	Standard Value	Meter Value	*Acceptance Criteria (PM)
<0.1 Standard	NTU	10	+/- 0.3 NTU of stan.
20 Standard	NTU	20.3	+/- 5% of standard
100 Standard	NTU	101	+/- 5% of standard
800 Standard	NTU	800	+/- 5% of standard

Standard Value	Meter Value	*Acceptance Criteria (PM)
10	9.23	+/- 0.3 NTU of stan.
20	20.8	+/- 5% of standard
100	98.9	+/- 5% of standard
800	802	+/- 5% of standard

PHOTOIONIZATION DETECTOR

METER TYPE: Background
 MODEL NO.:
 UNIT ID NO.: Span Gas

Units	Standard Value	Meter Value	*Acceptance Criteria (PM)
ppmv	<0.1		within 5 ppmv of BG
ppmv	100		+/- 10% of standard

Standard Value	Meter Value	*Acceptance Criteria (PM)
<0.1		within 5 ppmv of BG
100		+/- 10% of standard

O₂-LEL 4 GAS METER

METER TYPE:
 MODEL NO.:
 UNIT ID NO.:

Units	Standard Value	Meter Value	*Acceptance Criteria (PM)
Methane %	50		+/- 10% of standard
O ₂ %	20.9		+/- 10% of standard
H ₂ S ppmv	25		+/- 10% of standard
CO ppmv	50		+/- 10% of standard

Standard Value	Meter Value	*Acceptance Criteria (PM)
50		+/- 10% of standard
20.9		+/- 10% of standard
25		+/- 10% of standard
50		+/- 10% of standard

OTHER METER

METER TYPE:
 MODEL NO.:
 UNIT ID NO.:

See Notes Below for Additional Information

- ☐ Equipment calibrated within the Acceptance Criteria specified for each of the parameters listed above.
☐ Equipment (not) calibrated within the Acceptance Criteria specified for each of the parameters listed above**.

MATERIALS RECORD

Deionized Water Source: Portland FOS
 Lot#/Date Produced:
 Trip Blank Source: Laboratory provided
 Sample Preservatives Source: Laboratory provided
 Disposable Filter Type: in-line 0.45µm cellulose
 Calibration Fluids / Standard Source:
 - DO Calibration Fluid (<0.1 mg/L) Portland FOS
 - Other
 - Other
 - Other

	Cal. Standard Lot Number	Exp. Date
pH (4)	16 K614	11/23
pH (7)	16 J1214	10/23
pH (10)		
ORP	16 E 536	8/22
Conductivity	16 J 474	10/22
20 Turb. Stan.	16 J 103	4/22
100 Turb. Stan.	16 J 103	9/22
800 Turb. Stan.	16 J 103	5/22
PID Span Gas	16 J 103	5/22
O ₂ -LEL Span Gas		
Other		

NOTES: Am DO 90 low

* = Unless otherwise noted, calibration procedures and acceptance criteria are in general accordance with USEPA Region 1 SOPs for Field Instrument Calibration (EQASOP-FieldCalibrat) and Low Stress Purging and Sampling (EQASOP-GW001), each dated 1/19/2010. Additional acceptance criteria obtained from instrument specific manufacturer recommendations.

** = If meter reading is not within acceptance criteria, clean/replace probe and re-calibrate, or use calibrated back-up meter if available. If project requirements necessitate use of the instrument, clearly document any deviations from acceptance criteria on all data sheets and log book entries.

1 = DO Saturated standard value is calculated based on Oxygen Solubility at Indicated Pressure Chart from the USEPA Region 1 SOP for Field Instrument Calibration (EQASOP-FieldCalibrat), dated 1/19/2010.



511 Congress Street, Portland Maine 04101

FIELD INSTRUMENT CALIBRATION RECORD

FIELD INSTRUMENT CALIBRATION RECORD

PROJECT NAME: ALC CLEANERS
 PROJECT NUMBER: 36111-828133
 PROJECT LOCATION: SWEDON NY
 WEATHER CONDITIONS (AM): 40°F CLOUDY
 WEATHER CONDITIONS (PM): 58°F SUNNY

TASK NO: 362 DATE: 04/05/22
 MACTEC CREW: B. Robinson/B. Paulus
 SAMPLER NAME: B. Robinson
 SAMPLER SIGNATURE: B. Robinson
 CHECKED BY: Mario G DATE: 4/7/22

MULTI-PARAMETER WATER QUALITY METER

METER TYPE: VSI
 MODEL NO.: 556
 UNIT ID NO.: M015-04

Start Time 7:23 / End Time 8:10

Units	Standard Value	Meter Value	*Acceptance Criteria (AM)
pH (4)	SU	4.0	<u>3.99</u> +/- 0.1 pH Units
pH (7)	SU	7.0	<u>6.99</u> +/- 0.1 pH Units
pH (10)	SU	10.0	<u>9.99</u> +/- 0.1 pH Units
Redox	+/- mV	240	<u>240.1</u> +/- 10 mV
Conductivity	mS/cm	1.413	<u>1.413</u> +/- 0.5 % of standard
DO (saturated)	%	100	<u>97.2</u> +/- 2% of standard
DO (saturated) mg/L ¹ (see Chart 1)		<u>12.12</u>	<u>12.07</u> +/- 0.2 mg/L
DO (<0.1)	mg/L	<0.1	<u>0.32</u> < 0.5 mg/L
Temperature	°C		<u>74.2</u>
Baro. Press.	mmHg		<u>742.3</u>

POST CALIBRATION CHECK

Start Time 1700 / End Time 1715

Standard Value	Meter Value	*Acceptance Criteria (PM)
7.0	<u>6.99</u>	+/- 0.3 pH Units
240	<u>240</u>	+/- 10 mV
1.413	<u>1.414</u>	+/- 5% of standard
<u>8.40</u>	<u>8.47</u>	+/- 0.5 mg/L of standard
	<u>22.30</u>	
	<u>74.2</u>	

TURBIDITY METER

METER TYPE: HACH
 MODEL NO.: 2100A
 UNIT ID NO.: M024-40

Units	Standard Value	Meter Value
0.1 Standard	NTU	10
20 Standard	NTU	20
100 Standard	NTU	100
800 Standard	NTU	800

Standard Value	Meter Value	*Acceptance Criteria (PM)
10	<u>11.3</u>	+/- 0.3 NTU of stan.
20	<u>17.1</u>	+/- 5% of standard
100	<u>95.7</u>	+/- 5% of standard
800	<u>772</u>	+/- 5% of standard

PHOTOIONIZATION DETECTOR

METER TYPE: Background
 MODEL NO.:
 UNIT ID NO.:

Units	Standard Value	Meter Value
Background	ppmv	<0.1
Span Gas	ppmv	100

Standard Value	Meter Value	*Acceptance Criteria (PM)
<0.1		within 5 ppmv of BG
100		+/- 10% of standard

O₂-LEL 4 GAS METER

METER TYPE:
 MODEL NO.:
 UNIT ID NO.:

Units	Standard Value	Meter Value
Methane %	50	<u>50</u>
O ₂ %	20.9	<u>20.9</u>
H ₂ S ppmv	25	<u>25</u>
CO ppmv	50	<u>50</u>

Standard Value	Meter Value	*Acceptance Criteria (PM)
50		+/- 10% of standard
20.9		+/- 10% of standard
25		+/- 10% of standard
50		+/- 10% of standard

OTHER METER

METER TYPE:
 MODEL NO.:
 UNIT ID NO.:

See Notes Below for Additional Information

- ☐ Equipment calibrated within the Acceptance Criteria specified for each of the parameters listed above.
☐ Equipment (not) calibrated within the Acceptance Criteria specified for each of the parameters listed above**.

MATERIALS RECORD

Deionized Water Source: Portland FOS
 Lot#/Date Produced:
 Trip Blank Source: Laboratory provided
 Sample Preservatives Source: Laboratory provided
 Disposable Filter Type: in-line 0.45µm cellulose
 Calibration Fluids / Standard Source:
 - DO Calibration Fluid (<0.1 mg/L) Portland FOS
 - Other
 - Other
 - Other

Cal. Standard Lot Number	Exp. Date
pH (4) <u>16K614</u>	<u>11/23</u>
pH (7) <u>19J1214</u>	<u>10/23</u>
pH (10) <u></u>	<u></u>
ORP <u>16K534</u>	<u>9/22</u>
Conductivity <u>16J479</u>	<u>10/22</u>
<0.1 Turb. Stan. <u>A1013</u>	<u>4/22</u>
20 Turb. Stan. <u>A1013</u>	<u>4/22</u>
100 Turb. Stan. <u>A1020</u>	<u>5/22</u>
800 Turb. Stan. <u>A1020</u>	<u>5/22</u>
PID Span Gas <u></u>	<u></u>
O ₂ -LEL Span Gas <u></u>	<u></u>
Other <u></u>	<u></u>

NOTES:

10 Turb. Stan. 3 20 Turb. Stan. expire 04/22.
 PM BUMP CHECK - 10 NTU CAL'D HIGH.

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** = If meter reading is not within acceptance criteria, clean/replace probe and re-calibrate, or use calibrated back-up meter if available. If project requirements necessitate use of the instrument, clearly document any deviations from acceptance criteria on all data sheets and log book entries.

1 = DO Saturated standard value is calculated based on Oxygen Solubility at Indicated Pressure Chart from the USEPA Region 1 SOP for Field Instrument Calibration (EQASOP-FieldCalibrat), dated 1/19/2010.



511 Congress Street, Portland Maine 04101

FIELD INSTRUMENT CALIBRATION RECORD

ATTACHMENT 2

PRE-DEMOLITION ASBESTOS SURVEY

PRE-DEMOLITION ASBESTOS SURVEY

**4626 LAKE ROAD SOUTH
BROCKPORT, NEW YORK 14420**

PREPARED FOR:

**JOHN WOOD GROUP PLC
15 JUSTICE MILE LANE
ABERDEEN CITY, SCOTLAND AB11 6EQ**

August 23, 2021



**4626 LAKE ROAD SOUTH,
BROCKPORT, NEW YORK 14420**

PRE-DEMOLITION ASBESTOS SURVEY

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- Asbestos Survey
- Regulatory Review

Limitations

Conclusions

- Materials Sampled
- Asbestos Containing Materials – Locations by Space and Quantification

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- Sample Locations

Laboratory Analytical Reports and Chains of Custody

Certifications

INTRODUCTION

ASBESTOS SURVEY REPORT

Lozier Environmental Consulting, Inc. was retained by John Wood Group PLC to conduct a pre-demolition asbestos survey on August 3, 2021 at 4626 Lake Road South, Brockport, New York 14420. This report refers to the interior and exterior of a vacant, two-story home.

New York State Department of Labor certified inspectors Keith Updyke and Brian Kehm conducted the inspection with procedures and guidelines commonly used and accepted in New York State. The objective of this inspection was to evaluate, correlate, and quantify all asbestos containing materials for future demolition purposes.

The initial walkthrough was conducted by the inspectors who observed and recorded those suspect materials used in the construction of the building such as floor, wall, and ceiling materials, surfacing materials, thermal systems insulation, roofing, caulks, and miscellaneous materials.

The inspector selected materials for inclusion in this report through their expertise and through an understanding of the historical uses of asbestos. Samples were collected from locations and recorded on a chain of custody document, recorded on a drawing, and individually retained within a container and transported to the Lozier analytical laboratory for analysis.

The Survey Report is divided as follows:

1. Introduction: Summation of sampling protocol and analysis methods.
2. Limitations: Summation of sampling conditions and restrictions at the time of inspection.
3. Conclusions: The conclusion section is broken down into the following items:
 - a. Materials Sampled: An inclusive list of all suspect materials sampled throughout the building and classified by use.
 - b. Asbestos Containing Materials by Location: In this space by space breakdown, all asbestos materials are described by their location, description and square or linear footage as found in each designated space.
4. Drawings: Interior and exterior drawings designate the approximate sampling location of materials analyzed.
5. Laboratory Analytical Reports: Sample data and analysis results by PLM and TEM methods.
6. Certifications of Laboratory and Personnel.

Lozier Environmental Consulting, Inc. is accredited through New York State Department of Health ELAP (Lab ID# 11770) for Solid and Hazardous Waste and Air and Emissions for Bulk Asbestos Fiber Analysis by polarized light microscopy (PLM). The analysis methodology used for asbestos bulk samples is as follows: New York State Department of Health ELAP Method 198.1 and 198.6; *Polarized Light Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples* and EPA 600/M4/82/020. Asbestos containing materials are defined as those materials containing greater than 1.0% asbestos.

Non-friable organically bound materials, which were determined negative by PLM and contained greater than 1% residue after gravimetric reduction, were analyzed by transmission electron microscopy (TEM) by ELAP Method 198.4 at AMA Analytical Services, Inc., which is a New York State ELAP-Certified Laboratory (ELAP Lab ID# 10920).

Samples are stored at the laboratory for 60 days then disposed of in accordance with state and federal regulations.

REGULATORY REVIEW

Asbestos is regulated at the federal level by the Environmental Protection Agency (EPA) and the Occupational Safety and Health Administration (OSHA), and at the state level by the New York State Department of Labor (NYSDOL) and the Department of Environmental Conservation (DEC).

Regulations are differentiated by the distinctions between friable and non-friable asbestos containing materials. Friable material is defined as a "material, when dry, may be crumbled, pulverized, or reduced to powder by hand pressure." Friable ACM is generally more of a concern as it is more likely to release asbestos fibers when damaged or disturbed. Materials such as floor tiles, roofing, and mastics are considered non-friable and typically present a very limited potential for fiber release. Both friable and non-friable ACM materials are subject to government regulations when and if fibers are released if significantly disturbed.

OSHA Regulations

OSHA regulations 29CFR 1910.1001 and 29CFR 1926.1101 provide for protection of workers exposed to asbestos. These regulations define a maximum permissible exposure limit (PEL) and an excursion limit for worker exposure to airborne asbestos fiber concentrations. These regulations assign specific responsibilities to building owners relative to asbestos, including the identification of asbestos containing materials, notification of employees and contractors, and training. The OSHA hazard communication regulations 29CFR 1910.1200, are designed to provide assurance that hazards of substances are evaluated and that information concerning their hazards is transmitted to employers and employees by means of comprehensive hazard communication programs.

EPA Regulations

EPA regulations are written for the general protection of non-occupational exposure and for the environment. EPA regulation 40CFR Part 763 – the Asbestos Hazard Emergency Response Act (AHERA), requires local education agencies to identify ACM in school buildings and to take appropriate actions to control release of asbestos fibers. Although AHERA does not apply to facilities such as residential or commercial structures, the standards and procedures established by this legislation are generally considered to be the accepted standard of care for the industry.

EPA also enforces the National Emission Standards for Hazardous Air Pollutants (NESHAP) regulation 40CFR 61 Subpart M, which requires that a pre-demolition asbestos survey be conducted prior to demolition/renovation of a building. NESHAP requires most types of ACM to be removed from the building prior to these activities and specifies specific removal and disposal methods.

EPA regulation 40CFR Part 302, derived under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), requires that the National Response Center be notified when there is a release in the environment of one pound or more of friable asbestos.

New York State Regulations

New York State Department of Labor (DOL) enforces the regulation 12NYCRR Part 56 (Code Rule 56) which is applicable to asbestos-related work in the State of New York. Code Rule 56 is concerned with

training, licensure, notification and record keeping requirements, and describes work procedures and engineering controls to be used on asbestos remediation projects. Persons performing asbestos-related work, including operations and maintenance, must complete an approved safety course and hold state certification. Code Rule 56 also requires that an asbestos survey be conducted to identify ACM within a building prior to building demolition activities.

In accordance with New York State, Industrial Code Rule 56-1.9 (d); "Information derived from the building survey **shall be immediately transmitted by the building owner or his/her agent** to the commissioner through the Department's Division of Safety and Health, Asbestos Control Bureau, and to the local government entity charged with issuing a permit for such demolition under applicable State or local laws or, if no such permit is required to the town or city clerk where the building is located." The local New York State DOL office is located at:

State of New York
Department of Labor
Division of Safety and Health
Asbestos Control Bureau
65 Court Street
Buffalo, New York 14202

Asbestos Waste

Transportation and disposal of asbestos waste materials are regulated by NESHAP, the Department of Transportation (DOT) and the New York State DEC.

LIMITATIONS

The information provided in this report was compiled from field and laboratory data generated by Lozier Environmental Consulting, Inc., and was prepared for reference to the interior and exterior of 4626 Lake Road South, Brockport, New York 14420.

Observations noted and recorded are intended to represent the conditions that existed at the subject site at the time and date that the observations were made.

Determinations and quantifications of suspect asbestos containing materials within the building were subject to the accessibility of areas. Lozier Environmental Consulting, Inc. accepts no responsibility for the content of building materials within areas or spaces that were unknown to us or not reasonably accessible.

Conclusions and recommendations provided in this report are based on the assumptions that materials identified are homogeneous throughout their application. **This Survey is not subject to interpretation by parties other than the authors of this document. This includes asbestos location summaries and analytical data.**

Lozier assumes no liability for any other buildings that were not identified by the Client that may fall under state or federal regulations.

CONCLUSIONS

The following is a breakdown of all materials sampled and analytical data by Polarized Light Microscopy (PLM) and Transmission Electron Microscopy (TEM) methods. A unit of layered materials is treated as asbestos containing material (ACM) if one or more layers contain asbestos greater than 1%.

MATERIALS SAMPLED - REFER TO SAMPLE LOCATION DRAWINGS

<u>MATERIAL (SAMPLE NO.)</u>	<u>FRIABLE/NON-FRIABLE/NOB</u>	<u>ASBESTOS BY PLM</u>	<u>ASBESTOS BY TEM</u>
<u>Flooring</u>			
White Stone Print Floor Tile (6A)	NOB	None Detected	Chrysotile Trace
Yellow Floor Tile Mastic (6B)	NOB	None Detected	None Detected
White Stone Print Floor Tile (7A)	NOB	None Detected	Chrysotile Trace
Yellow Floor Tile Mastic (7B)	NOB	None Detected	None Detected
Brown Grout (8A)	Non-Friable	None Detected	N/A
Grey Set Bed (8B)	Non-Friable	None Detected	N/A
Brown Grout (9A)	Non-Friable	None Detected	N/A
Grey Set Bed (9B)	Non-Friable	None Detected	N/A
Yellow Carpet Mastic (13)	NOB	None Detected	None Detected
Yellow Carpet Mastic (14)	NOB	None Detected	None Detected
Yellow Square Print 12"x12" Floor Tile (15)	NOB	None Detected	None Detected
Yellow Square Print 12"x12" Floor Tile (16)	NOB	None Detected	None Detected
<u>Wall/Wall Finishes</u>			
Brown Brick Pattern Wall Panel (3A)	NOB	None Detected	None Detected
Brown Wall Panel Mastic (3B)	NOB	None Detected	None Detected
Brown Brick Pattern Wall Panel (4A)	NOB	None Detected	None Detected
Brown Wall Panel Mastic (4B)	NOB	None Detected	None Detected
White Wall Joint Compound (5A)	Friable	None Detected	N/A
White Drywall (5B)	Friable	None Detected	N/A
White Cove Base Mastic (11)	NOB	None Detected	None Detected
White Cove Base Mastic (12)	NOB	None Detected	None Detected
Black Base Cove (17A)	NOB	None Detected	None Detected
Black Cove Base Mastic (17B)	NOB	None Detected	Chrysotile Trace
Black Base Cove (18A)	NOB	None Detected	None Detected
Black Cove Base Mastic (18B)	NOB	None Detected	Chrysotile Trace
Tan 9"x9" Wall Tile (19A)	NOB	Chrysotile 7.7%	N/A
Black Wall Tile Mastic (19B)	NOB	Chrysotile 2.9%	N/A
Tan 9"x9" Wall Tile (20A)	NOB	Stop Positive	N/A
Black Wall Tile Mastic (20B)	NOB	Stop Positive	N/A
White Wall Joint Compound (23A)	Friable	None Detected	N/A
White Drywall (23B)	Friable	None Detected	N/A

Ceiling Tile/Systems

2'x4' Fissure Ceiling Tile (1)	Friable	None Detected	None Detected
2'x4' Fissure Ceiling Tile (2)	Friable	None Detected	None Detected
2'x4' Swirl Pattern Ceiling Tile (21)	Friable	None Detected	Chrysotile Trace
2'x4' Swirl Pattern Ceiling Tile (22)	Friable	None Detected	None Detected
White Ceiling Joint Compound (25)	Friable	None Detected	N/A
White Ceiling Joint Compound (26)	Friable	None Detected	N/A

Windows

White Window Glaze (10)	NOB	None Detected	Chrysotile Trace
White Window Glaze (24)	NOB	None Detected	None Detected

Roof**Roof Main:**

Grey Shingle (27A)	NOB	None Detected	Chrysotile Trace
Black Felt Paper (27B)	NOB	None Detected	None Detected
Black Water/Ice (27C)	NOB	None Detected	Chrysotile Trace
Grey Shingle (28A)	NOB	None Detected	None Detected
Black Felt Paper (28B)	NOB	None Detected	N/A
Black Water/Ice (28C)	NOB	None Detected	Chrysotile Trace

Old Roof Main – Roof Curb:

Black Tar (29A)	NOB	Chrysotile 1.1%	None Detected
Black Tar Paper (29B)	NOB	Chrysotile 1.3%	None Detected
Black Tar (29C)	NOB	Chrysotile 1.1%	None Detected
Black Tar (30A)	NOB	None Detected	None Detected
Black Tar Paper (30B)	NOB	Stop Positive	N/A
Black Tar (30C)	NOB	Stop Positive	N/A

Rear Roof:

Black Tar (31A)	NOB	Chrysotile 6.3%	N/A
Black Felt Paper (31B)	NOB	Chrysotile 6.6%	N/A
Black Tar (32A)	NOB	Stop Positive	N/A
Black Felt Paper (32B)	NOB	Stop Positive	N/A
Black Tar/Flashing (33)	NOB	Chrysotile 2.9%	N/A
Black Tar/Flashing (34)	NOB	Stop Positive	N/A

ASBESTOS CONTAINING MATERIALS BY LOCATION

INTERIOR

LOCATION	MATERIAL	COND.	CLASS	QUANTITY
Closet	Tan 9"x9' Wall Tile and Black Wall Tile Mastic	Good	NOB	20 Square Feet

ROOF

LOCATION	MATERIAL	COND.	CLASS	QUANTITY
Old Main Roof – Under Current Roof	Black Tar and Black Tar Paper (Multiple Layer System)	Good	NOB	3060 Square Feet
Rear Roof	Black Tar and Black Felt Paper	Good	NOB	306 Square Feet
	Black Tar/Flashing	Good	NOB	70 Square Feet

Notes:

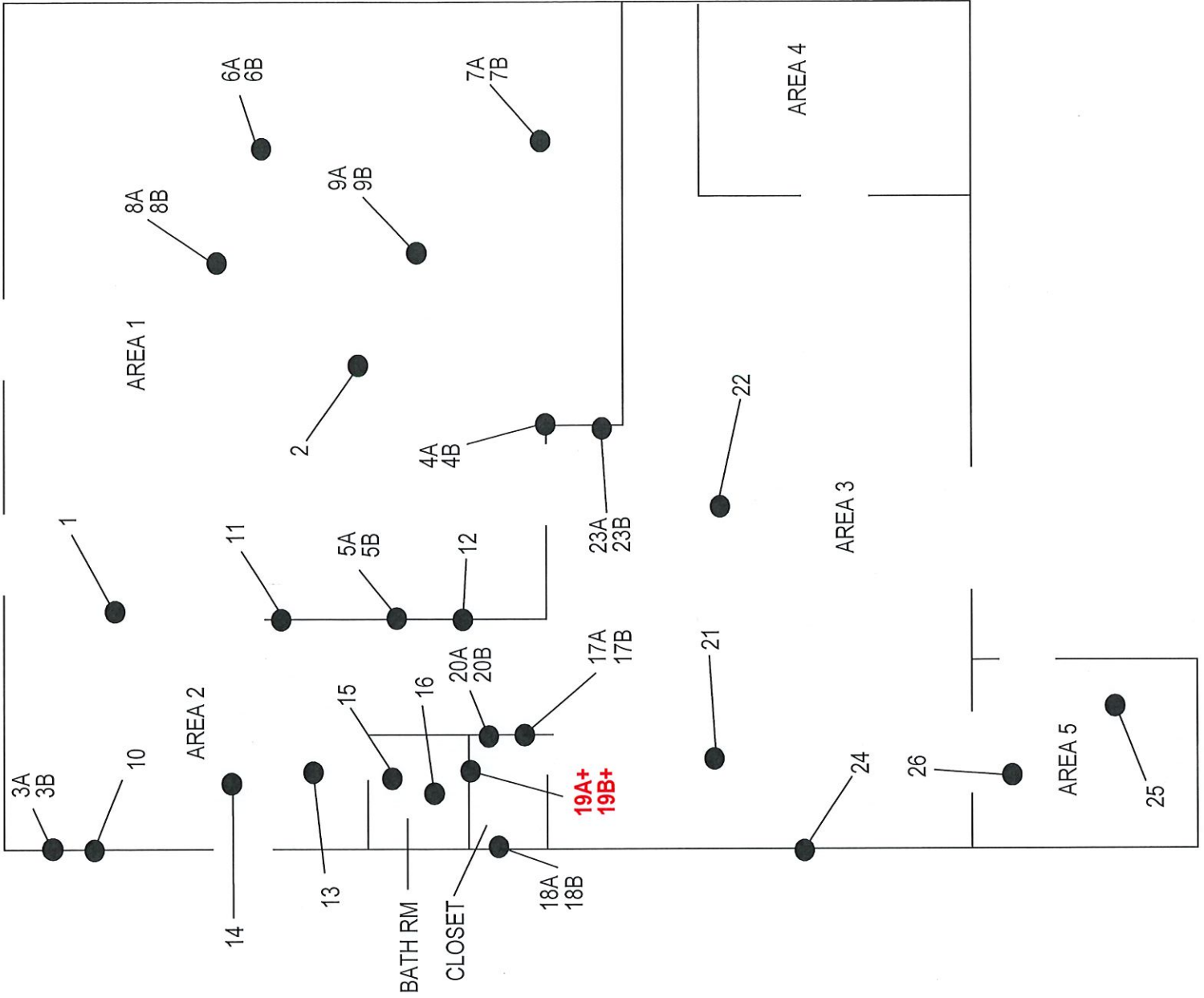
- Condition: **Good** = No visible damage and/or very limited deterioration. **Fair** = visible damage or deterioration on less than 25% of the material. **Poor** = visible damage or deterioration greater than 25%.
- All quantities are approximations and should be verified by contractor prior to removal.

SAMPLE LOCATION DRAWINGS

SAMPLING LOCATION PLAN

CLIENT: JOHN WOOD GROUP PLC
LOCATION: 4626 LAKE ROAD SOUTH, BROCKPORT, NEW YORK 14420
AREA: INTERIOR
DATE SAMPLED : AUGUST 3, 2021

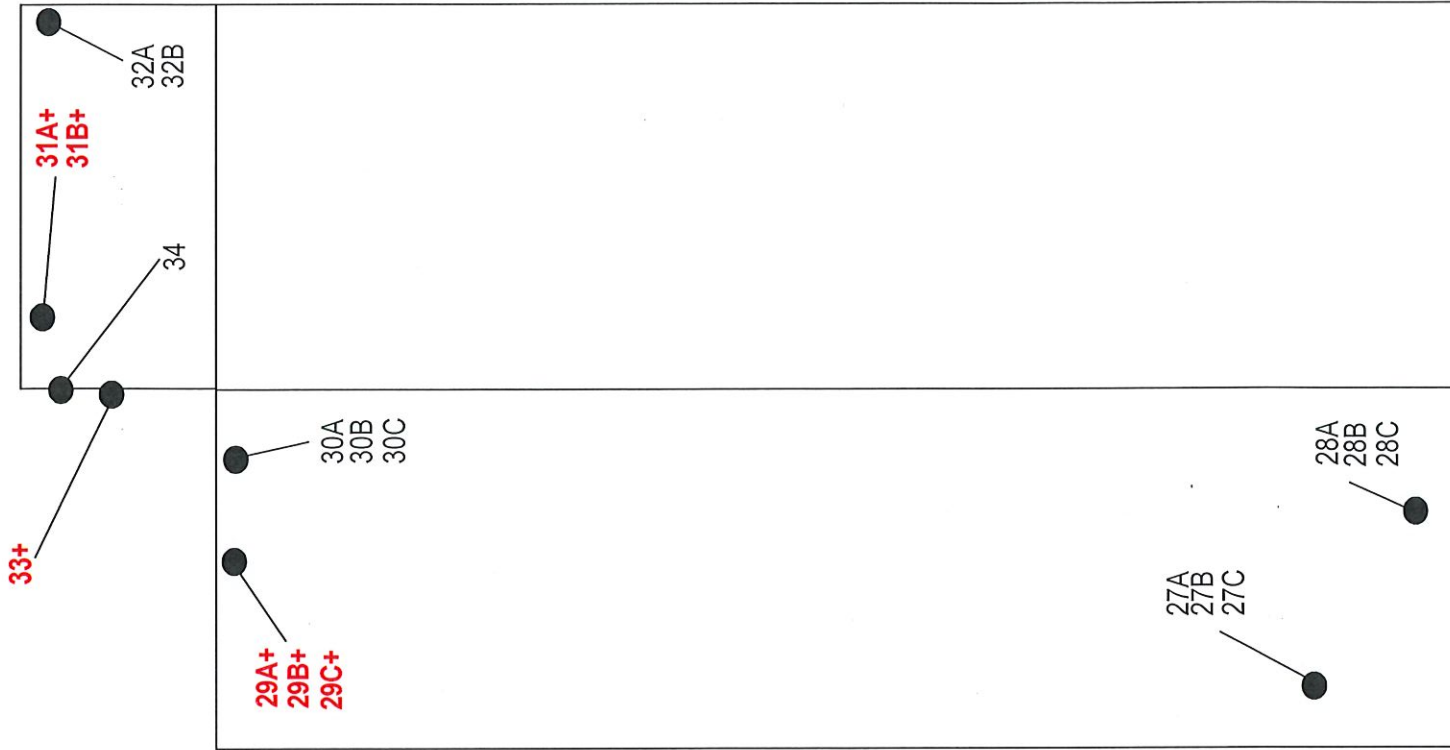
ASBESTOS CONTAINING SAMPLES
DESIGNATED BY "+" and **BOLD**



SAMPLING LOCATION PLAN

CLIENT: JOHN WOOD GROUP PLC
LOCATION: 4626 LAKE ROAD SOUTH, BROCKPORT, NEW YORK 14420
AREA: EXTERIOR
DATE SAMPLED : AUGUST 3, 2021

ASBESTOS CONTAINING SAMPLES
DESIGNATED BY "+" and **BOLD**



**LABORATORY ANALYTICAL RESULTS
AND
CHAINS OF CUSTODY**



2011 East Main Street, Rochester, New York 14609
Phone: (585) 654-9080 Fax: (585) 654-9662
www.LozierEnv.com
ELAP #11770

Client: John Wood Group PLC
15 Justice Mille Lane
Aberdeen City, Scotland, AB11 6EQ

Laboratory No.: 65464
Date Received: 8/3/21
Report Date: 8/13/21
Analysis Date: 8/10/21
Page: 1 of 6

Attn: Charles Staples

Project Site: 4626 Lake Road South, Brockport, New York 14420

Chain of Custody in Following Pages
TEM results AMA - ELAP No. 10920

SAMPLE INFORMATION

Sample Date:	8/3/2021	Location:	Interior & Exterior	Analyst:	J. Savoie
Sampler:	K. Updyke / B. Kehm	Type of Sample:	Bulk Asbestos	Number of Samples:	56

ASBESTOS BULK LABORATORY REPORT

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers (%)	PLM Total Asbestos (%)	NOTE	CLASS	PLM Non-Asbestos Fibers (%)	Matrix Material (%)	TEM Results Asbestos (%)
1	65464-1	Area 1	2'X4' Fissure Ceiling Tile	Inconclusive None Detected 0%	0%	*	F	Cellulose 8%	92%	NAD
2	65464-2	Area 1	2'X4' Fissure Ceiling Tile	Inconclusive None Detected 0%	0%	*	F	Cellulose 6%	94%	NAD
3A	65464-3A	Area 1	Brown Brick Pattern Wall Panel 1st Layer	Inconclusive None Detected 0%	0%	*	NOB	None Detected 0%	100%	NAD
3B	65464-3B	Area 1	Brown Wall Panel Mastic 2nd Layer	Inconclusive None Detected 0%	0%	*	NOB	None Detected 0%	100%	NAD
4A	65464-4A	Area 1	Brown Brick Pattern Wall Panel 1st Layer	Inconclusive None Detected 0%	0%	*	NOB	None Detected 0%	100%	NAD
4B	65464-4B	Area 1	Brown Wall Panel Mastic 2nd Layer	Inconclusive None Detected 0%	0%	*	NOB	None Detected 0%	100%	NAD
5A	65464-5A	Area 1	White Wall Joint Compound 1st Layer	None Detected 0%	0%		F	None Detected 0%	100%	N/A
5B	65464-5B	Area 1	White Drywall 2nd Layer	None Detected 0%	0%		F	Fiberglass 7%	93%	N/A
6A	65464-6A	Area 1	White Stone Print Floor Tile 1st Layer	Inconclusive None Detected 0%	0%	*	NOB	None Detected 0%	100%	Chrysotile Trace
6B	65464-6B	Area 1	Yellow Floor Tile Mastic 2nd Layer	Inconclusive None Detected 0%	0%	*	NOB	None Detected 0%	100%	NAD

Analysis Method: Polarized Light Microscopy (PLM) - Friable Material (F-1) and Non-Friable (NF-1): New York State ELAP Item 198.1 and (NOB-2): ELAP Item 198.6.

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Material Classification: F = Friable, NF = Non-Friable, NOB = Non-Friable Organically Bound.

NAD: No Asbestos detected by TEM analysis

N/A: Not applicable; TEM analysis not required

*Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings & similar non-friable organically bound materials (NOB) and ceiling tiles that contain cellulose fibers. Quantitative Transmission Electron Microscopy (TEM) is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Approved By: _____

J. Cravotta
Technical Director

Analyst: J. Cravotta - Meiji PLM (MT9920)
Analyst: J. Savoie - NIKON Optiphot 2 PLM(139570)



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Aberdeen City, Scotland, AB11 6EQ

Laboratory No.: 65464
Date Received: 8/3/21
Report Date: 8/13/21
Analysis Date: 8/10/21
Page: 2 of 6

Attn: Charles Staples

Project Site: 4626 Lake Road South, Brockport, New York 14420

Chain of Custody in Following Pages
TEM results AMA - ELAP No. 10920

SAMPLE INFORMATION

Sample Date: 8/3/2021	Location: Interior & Exterior	Analyst: J. Savoie
Sampler: K. Updyke / B. Kehm	Type of Sample: Bulk Asbestos	Number of Samples: 56

ASBESTOS BULK LABORATORY REPORT

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers (%)	PLM Total Asbestos (%)	NOTE	CLASS	PLM Non-Asbestos Fibers (%)	Matrix Material (%)	TEM Results Asbestos (%)
7A	65464-7A	Area 1	White Stone Print Floor Tile 1st Layer	Inconclusive None Detected 0%	0%	*	NOB	None Detected 0%	100%	Chrysotile Trace
7B	65464-7B	Area 1	Yellow Floor Tile Mastic 2nd Layer	Inconclusive None Detected 0%	0%	*	NOB	None Detected 0%	100%	NAD
8A	65464-8A	Area 1	Brown Grout 1st Layer	None Detected 0%	0%		NF	None Detected 0%	100%	N/A
8B	65464-8B	Area 1	Grey Set Bed 2nd Layer	None Detected 0%	0%		NF	Fiberglass 6%	94%	N/A
9A	65464-9A	Area 1	Brown Grout 1st Layer	None Detected 0%	0%		NF	None Detected 0%	100%	N/A
9B	65464-9B	Area 1	Grey Set Bed 2nd Layer	None Detected 0%	0%		NF	Fiberglass 4%	96%	N/A
10	65464-10	Area 1	White Window Glaze	Inconclusive None Detected 0%	0%	*	NOB	None Detected 0%	100%	Chrysotile Trace
11	65464-11	Area 2	White Base Cove Mastic	Inconclusive None Detected 0%	0%	*	NOB	None Detected 0%	100%	NAD
12	65464-12	Area 2	White Base Cove Mastic	Inconclusive None Detected 0%	0%	*	NOB	None Detected 0%	100%	NAD
13	65464-13	Area 2	Yellow Carpet Mastic	Inconclusive None Detected 0%	0%	*	NOB	None Detected 0%	100%	NAD

Analysis Method: Polarized Light Microscopy (PLM) - Friable Material (F-1) and Non-Friable (NF-1): New York State ELAP Item 198.1 and (NOB-2): ELAP Item 198.6.

Analytical results relate only to the sample received and analyzed. This report shall not be reproduced except in full without the written approval of the laboratory.

Material Classification: F = Friable, NF = Non-Friable, NOB = Non-Friable Organically Bound.

NAD: No Asbestos detected by TEM analysis

N/A: Not applicable; TEM analysis not required

*Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings & similar non-friable organically bound materials (NOB) and ceiling tiles that contain cellulose fibers. Quantitative Transmission Electron Microscopy (TEM) is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Approved By:

J. Cravotta
Technical Director

Analyst: J. Cravotta - Meiji PLM (MT9920)
Analyst: J. Savoie - NIKON Optiphot 2 PLM(139570)



2011 East Main Street, Rochester, New York 14609
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ELAP #11770

Client: John Wood Group PLC
15 Justice Mille Lane
Aberdeen City, Scotland, AB11 6EQ

Laboratory No.: 65464
Date Received: 8/3/21
Report Date: 8/13/21
Analysis Date: 8/10/21
Page: 3 of 6

Attn: Charles Staples

Chain of Custody in Following Pages
TEM results AMA - ELAP No. 10920

Project Site: 4626 Lake Road South, Brockport, New York 14420

SAMPLE INFORMATION

Sample Date: 8/3/2021	Location: Interior & Exterior	Analyst: J. Savoie
Sampler: K. Updyke / B. Kehm	Type of Sample: Bulk Asbestos	Number of Samples: 56

ASBESTOS BULK LABORATORY REPORT

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers (%)	PLM Total Asbestos (%)	NO	TE	PLM Non-Asbestos Fibers (%)	Matrix Material (%)	TEM Results Asbestos (%)
14	65464-14	Area 2	Yellow Carpet Mastic	Inconclusive None Detected 0%	0%	*	NOB	None Detected 0%	100%	NAD
15	65464-15	Bath	Yellow Square Print 12"X12" Floor Tile	Inconclusive None Detected 0%	0%	*	NOB	None Detected 0%	100%	NAD
16	65464-16	Bath	Yellow Square Print 12"X12" Floor Tile	Inconclusive None Detected 0%	0%	*	NOB	None Detected 0%	100%	NAD
17A	65464-17A	Closet	Black Base Cove 1st Layer	Inconclusive None Detected 0%	0%	*	NOB	None Detected 0%	100%	NAD
17B	65464-17B	Closet	Black Base Cove Mastic 2nd Layer	Inconclusive None Detected 0%	0%	*	NOB	None Detected 0%	100%	Chrysotile Trace
18A	65464-18A	Closet	Black Base Cove 1st Layer	Inconclusive None Detected 0%	0%	*	NOB	None Detected 0%	100%	NAD
18B	65464-18B	Closet	Black Base Cove Mastic 2nd Layer	Inconclusive None Detected 0%	0%	*	NOB	None Detected 0%	100%	Chrysotile Trace
19A	15464-19A	Closet	Tan 9"X9" Wall Tile 1st Layer	Chrysotile 7.7%	7.7%		NOB	None Detected 0%	92.3%	N/A
19B	65464-19B	Closet	Black Wall Tile Mastic 2nd Layer	Chrysotile 2.9%	2.9%		NOB	None Detected 0%	97.1%	N/A
20A	65464-20A	Closet	Tan 9"X9" Wall Tile 1st Layer	Stop Positive See Sample 19A	N/A		NOB	N/A	N/A	N/A

Analysis Method: Polarized Light Microscopy (PLM) - Friable Material (F-1) and Non-Friable (NF-1): New York State ELAP Item 198.1 and (NOB-2): ELAP Item 198.6.

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Material Classification: F = Friable, NF = Non-Friable, NOB = Non-Friable Organically Bound.

NAD: No Asbestos detected by TEM analysis

N/A: Not applicable; TEM analysis not required

*Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings & similar non-friable organically bound materials (NOB) and ceiling tiles that contain cellulose fibers. Quantitative Transmission Electron Microscopy (TEM) is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Approved By:

J. Cravotta
Technical Director

Analyst: J. Cravotta - Meiji PLM (MT9920)
Analyst: J. Savoie - NIKON Optiphot 2 PLM(139570)



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Client: John Wood Group PLC
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Laboratory No.: 65464
Date Received: 8/3/21
Report Date: 8/13/21
Analysis Date: 8/10/21
Page: 4 of 6

Attn: Charles Staples

Project Site: 4626 Lake Road South, Brockport, New York 14420

Chain of Custody in Following Pages
TEM results AMA - ELAP No. 10920

SAMPLE INFORMATION

Sample Date: 8/3/2021	Location: Interior & Exterior	Analyst: J. Saviole
Sampler: K. Updyke / B. Kehm	Type of Sample: Bulk Asbestos	Number of Samples: 56

ASBESTOS BULK LABORATORY REPORT

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers (%)	PLM Total Asbestos (%)	N O T E	C L A S S	PLM Non-Asbestos Fibers (%)	Matrix Material (%)	TEM Results Asbestos (%)
20B	65464-20B	Closet	Black Wall Tile Mastic 2nd Layer	Stop Positive See Sample 19B	N/A		NOB	N/A	N/A	N/A
21	65464-21	Area 3	2'X4' Swirl Pattern Ceiling Tile	Inconclusive None Detected 0%	0%	*	F	Cellulose 7%	93%	Chrysotile Trace
22	65464-22	Area 3	2'X4' Swirl Pattern Ceiling Tile	Inconclusive None Detected 0%	0%	*	F	Cellulose 16%	84%	NAD
23A	65464-23A	Area 3	White Wall Joint Compound 1st Layer	None Detected 0%	0%		F	None Detected 0%	100%	N/A
23B	65464-23B	Area 3	White Drywall 2nd Layer	None Detected 0%	0%		F	Fiberglass 5%	95%	N/A
24	65464-24	Area 3	White Window Glaze	Inconclusive None Detected 0%	0%	*	NOB	None Detected 0%	100%	NAD
25	65464-25	Area 5	White Ceiling Joint Compound	None Detected 0%	0%		F	None Detected 0%	100%	N/A
26	64564-26	Area 5	White Ceiling Joint Compound	None Detected 0%	0%		F	None Detected 0%	100%	N/A
27A	65464-27A	Roof Main	Grey Shingle 1st Layer	Inconclusive None Detected 0%	0%	*	NOB	Fiberglass 10%	90%	Chrysotile Trace
27B	65464-27B	Roof Main	Black Felt Paper 2nd Layer	Inconclusive None Detected 0%	0%	*	NOB	None Detected 0%	100%	NAD

Analysis Method: Polarized Light Microscopy (PLM) - Friable Material (F-1) and Non-Friable (NF-1): New York State ELAP Item 198.1 and (NOB-2): ELAP Item 198.6.

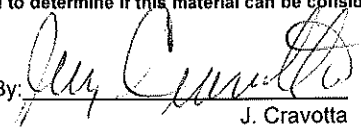
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N/A: Not applicable; TEM analysis not required

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Approved By: 

J. Cravotta
Technical Director

Analyst: J. Cravotta - Meiji PLM (MT9920)
Analyst: J. Saviole - NIKON Optiphot 2 PLM(139570)



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Laboratory No.: 65464
Date Received: 8/3/21
Report Date: 8/13/21
Analysis Date: 8/10/21
Page: 5 of 6

Attn: Charles Staples

Project Site: 4626 Lake Road South, Brockport, New York 14420

Chain of Custody in Following Pages
TEM results AMA - ELAP No. 10920

SAMPLE INFORMATION

Sample Date: 8/3/2021	Location: Interior & Exterior	Analyst: J. Savoie
Sampler: K. Updyke / B. Kehm	Type of Sample: Bulk Asbestos	Number of Samples: 56

ASBESTOS BULK LABORATORY REPORT

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers (%)	PLM Total Asbestos (%)	NOTE	CLASS	PLM Non-Asbestos Fibers (%)	Matrix Material (%)	TEM Results Asbestos (%)
27C	65464-27C	Roof Main	Black Water/Ice 3rd Layer	Inconclusive None Detected 0%	0%	*	NOB	None Detected 0%	100%	Chrysotile Trace
28A	65464-28A	Roof Main	Grey Shingle 1st Layer	Inconclusive None Detected 0%	0%	*	NOB	Fiberglass 8%	92%	NAD
28B	65464-28B	Roof Main	Black Felt/Paper 2nd Layer	Inconclusive None Detected 0%	0%	**	NOB	None Detected 0%	100%	N/A
28C	65464-28C	Roof Main	Black Water/Ice 3rd Layer	Inconclusive None Detected 0%	0%	*	NOB	None Detected 0%	100%	Chrysotile Trace
29A	65464-29A	Old Main Roof Curb	Black Tar 1st Layer	Chrysotile 1.1%	1.1%		NOB	None Detected 0%	98.9%	N/A
29B	65464-29B	Old Main Roof Curb	Black Tar Paper 2nd Layer	Chrysotile 1.3%	1.3%		NOB	None Detected 0%	98.7%	N/A
29C	65464-29C	Old Main Roof Curb	Black Tar 3rd Layer	Chrysotile 1.1%	1.1%		NOB	None Detected 0%	98.9%	N/A
30A	65464-30A	Old Main Roof Curb	Black Tar 1st Layer	Stop Positive See Sample 29A	N/A		NOB	N/A	N/A	N/A
30B	65464-30B	Old Main Roof Curb	Black Tar Paper 2nd Layer	Stop Positive See Sample 29B	N/A		NOB	N/A	N/A	N/A
30C	65464-30C	Old Main Roof Curb	Black Tar 3rd Layer	Stop Positive See Sample 29C	N/A		NOB	N/A	N/A	N/A

Analysis Method: Polarized Light Microscopy (PLM) - Friable Material (F-1) and Non-Friable (NF-1): New York State ELAP Item 198.1 and (NOB-2): ELAP Item 198.6.

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NAD: No Asbestos detected by TEM analysis

N/A: Not applicable; TEM analysis not required

*Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings & similar non-friable organically bound materials (NOB) and ceiling tiles that contain cellulose fibers. Quantitative Transmission Electron Microscopy (TEM) is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

**Less than 1% residue remained after gravimetric reduction method. TEM analysis not required.

Approved By:

J. Cravotta
Technical Director

Analyst: J. Cravotta - Meiji PLM (MT9920)
Analyst: J. Savoie - NIKON Optiphot 2 PLM(139570)



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Laboratory No.: 65464
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Report Date: 8/13/21
Analysis Date: 8/10/21
Page: 6 of 6

Attn: Charles Staples

Project Site: 4626 Lake Road South, Brockport, New York 14420

Chain of Custody in Following Pages
TEM results AMA - ELAP No. 10920

SAMPLE INFORMATION

Sample Date:	8/3/2021	Location:	Interior & Exterior	Analyst:	J. Savoie
Sampler:	K. Updyke / B. Kehm	Type of Sample:	Bulk Asbestos	Number of Samples:	56

ASBESTOS BULK LABORATORY REPORT

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers (%)	PLM Total Asbestos (%)	NO T E	C L A S S	PLM Non-Asbestos Fibers (%)	Matrix Material (%)	TEM Results Asbestos (%)
31A	65464-31A	Rear Roof	Black Tar 1st Layer	Chrysotile 6.3%	6.3%		NOB	None Detected 0%	93.7%	N/A
31B	65464-31B	Rear Roof	Black Felt Paper 2nd Layer	Chrysotile 6.6%	6.6%		NOB	None Detected 0%	93.4%	N/A
32A	65464-32A	Rear Roof	Black Tar 1st Layer	Stop Positive See Sample 31A	N/A		NOB	N/A	N/A	N/A
32B	65464-32B	Rear Roof	Black Felt Paper 2nd Layer	Stop Positive See Sample 31B	N/A		NOB	N/A	N/A	N/A
33	65464-33	Rear Roof	Black Tar/Flashing	Chrysotile 2.9%	2.9%		NOB	None Detected 0%	97.1%	N/A
34	65464-34	Rear Roof	Black Tar/Flashing	Stop Positive See Sample 33	N/A		NOB	N/A	N/A	N/A

Analysis Method: Polarized Light Microscopy (PLM) - Friable Material (F-1) and Non-Friable (NF-1); New York State ELAP Item 198.1 and (NOB-2): ELAP Item 198.6.

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Analyst: J. Cravotta - Meiji PLM (MT9920)
Analyst: J. Savoie - NIKON Optiphot 2 PLM(139570)

Approved By:

J. Cravotta
Technical Director



AMA Analytical Services, Inc.
Focused On Results.

CERTIFICATE OF ANALYSIS

Chain of Custody: 628847
Client: Lozier Environmental Consulting, Inc.
Address: 2011 East Main Street
Rochester, NY 14609
Attention: Jeanne DeNike

Job Name: John Wood Group PLC
Job Location: 4626 Lake Road S., Brockport
Job Number: 65464
P.O. Number: Not Provided
Date Submitted: 08/11/2021
Date Analyzed: 08/12/2021
Report Date: 08/12/2021
Date Sampled: Not Provided
Person Submitting: Joseph Saviole

Summary of Asbestos Analysis of Non-Friable Organically Bound (NOB) Bulk Samples

AMA Sample	Client Sample	Sample Type *	% Total Asbestos	% Asbestos by PLM ***	% Asbestos by TEM ***	Type(s) of Asbestos	% Organics	% Acid Soluble	% Other	Material Type	Sample Color	Comments
628847-24	65464-24	Residue	NAD	N/A	NAD		6.7	26.4	66.9			
628847-25	65464-27a	Residue	TR	N/A	TR	Chrysotile	31.5	25.4	43.1			
628847-26	65464-27b	Residue	NAD	N/A	NAD		94.9	3.1	2.1			
628847-27	65464-27c	Residue	TR	N/A	TR	Chrysotile	43.3	17.6	39.1			
628847-28	65464-28a	Residue	NAD	N/A	NAD		32.5	25.1	42.4			
628847-29	65464-28c	Residue	TR	N/A	TR	Chrysotile	46.7	33.5	19.7			

* Whole = Whole sample submitted and gravimetric reduction performed by AMA Analytical Services, Residue = Gravimetric reduction of sample performed by client and residue only submitted for analysis.

** NAD = "No Asbestos Detected" TR = "Trace equals less than 1% of this component"

*** PLM = Polarized Light Microscopy after gravimetric reduction (NY ELAP Method 198.6) TEM = Transmission Electron Microscopy after gravimetric reduction (NY ELAP Method 198.4)

All results are to be considered preliminary and subject to change unless signed by the Technical Director or Deputy.

Analyst(s): George Land, Christopher Dell

Technical Director Andreas Saldivar

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. This report must not be used to claim, and does not imply product certification, approval, or endorsement by AIHA-LAP or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.



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Focused On Results.

CERTIFICATE OF ANALYSIS

NY ELAP
Lab ID 10920

Chain of Custody: 628847
Client: Lozier Environmental Consulting, Inc.
Address: 2011 East Main Street
Rochester, NY 14609
Attention: Jeanne DeNike

Job Name: John Wood Group PLC
Job Location: 4626 Lake Road S., Brockport
Job Number: 65464
P.O. Number: Not Provided
Date Submitted: 08/11/2021
Date Analyzed: 08/12/2021
Report Date: 08/12/2021
Date Sampled: Not Provided
Person Submitting: Joseph Savoie

Summary of Asbestos Analysis of Non-Friable Organically Bound (NOB) Bulk Samples

AMA Sample	Client Sample	Sample Type *	% Total Asbestos	% Asbestos by PLM ***	% Asbestos by TEM ***	Type(s) of Asbestos	% Organics	% Acid Soluble	% Other	Material Type	Sample Color	Comments
628847-1	65464-1	Residue	NAD	N/A	NAD		24.6	34.8	40.6			
628847-2	65464-2	Residue	NAD	N/A	NAD		22.6	33.7	43.7			
628847-3	65464-3a	Residue	NAD	N/A	NAD		94.3	1.1	4.6			
628847-4	65464-3b	Residue	NAD	N/A	NAD		55	24.2	20.8			
628847-5	65464-4a	Residue	NAD	N/A	NAD		94.7	0.1	5.2			
628847-6	65464-4b	Residue	NAD	N/A	NAD		62.7	17.9	19.4			
628847-7	65464-6a	Residue	TR	N/A	TR	Chrysotile	17.9	20.7	60.9			
628847-8	65464-6b	Residue	NAD	N/A	NAD		56.9	35	8.1			
628847-9	65464-7a	Residue	TR	N/A	TR	Chrysotile	23.1	21.9	55			
628847-10	65464-7b	Residue	NAD	N/A	NAD		48.7	42.2	9			
628847-11	65464-10	Residue	TR	N/A	TR	Chrysotile	17.3	23.7	58.9			
628847-12	65464-11	Residue	NAD	N/A	NAD		47.7	43.9	8.4			
628847-13	65464-12	Residue	NAD	N/A	NAD		44	45.6	10.4			
628847-14	65464-13	Residue	NAD	N/A	NAD		46.4	7.3	46.4			
628847-15	65464-14	Residue	NAD	N/A	NAD		52.2	4.2	43.6			
628847-16	65464-15	Residue	NAD	N/A	NAD		32.8	21	46.3			
628847-17	65464-16	Residue	NAD	N/A	NAD		33	20.4	46.6			
628847-18	65464-17a	Residue	NAD	N/A	NAD		62.2	17.4	20.4			
628847-19	65464-17b	Residue	TR	N/A	TR	Chrysotile	76.9	13.8	9.3			
628847-20	65464-18a	Residue	NAD	N/A	NAD		53.8	18.1	28			
628847-21	65464-18b	Residue	TR	N/A	TR	Chrysotile	81.1	10.9	8.1			
628847-22	65464-21	Residue	TR	N/A	TR	Chrysotile	65.4	3.4	31.2			
628847-23	65464-22	Residue	NAD	N/A	NAD		66.5	2.2	31.2			



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ELAP Accredited No. 11770

PLM ASBESTOS BULK MATERIAL SAMPLES

Page 1 of 6

Client:	john wood group plc	Sample Date:	8/3/2021	Lab No.:	65464	Contacted Client:							
Address:	15 justice mill lane	Turn Around:	Emerg. Immed. 24 Hr. 48 Hr. 3 Day 5 Day	Location:	4626 lake rd south, Brockport, 14420	TEM:	Yes No T/R <i>8/10/21</i>						
Contact:	charles staples	Samples:	56	Sampled By:	K. Updyke/B. Kehm	Stop Positive							
Phone #		Fax #		Client ID	Lab ID	Room/Area Location	Color/Description	Material Type	Layer No.	F - NF	NOB	+	TEM
1	65464-1		area 1	2x4 fischer	2x4 fischer	ceiling tile	1		1	NOB	-	✓	
2	1-2		area 1	2x4 fischer	2x4 fischer	ceiling tile	1		1	NOB	-	✓	
3a	-3A		area 1	brown	brick pattern wall panel		1		1	NOB	-	✓	
3b	-3B		area 1	brown	wall panel mastic		2		2	NOB	-	✓	
4a	-4A		area 1	brown	brick pattern wall panel		3a		1	NOB	-	✓	
4b	-4B		area 1	brown	wall panel mastic		3b		2	NOB	-	✓	
5a	-5A		area 1	white	wall joint compound		1		1	F	-		
5b	-5B		area 1	white	dry wall		2		2	F	-		
6a	-6A		area 1	white stone print	floor tile		1		1	NOB	-	✓	
6b	-6B		area 1	yellow	floor tile mastic		2		2	NOB	-	✓	

TRANSPORTED TO: LOZIER ENVIRONMENTAL CONSULTING, INC.

Relinquished By:

RECEIVED BY:

DATE: 8/3/21 TIME: 1600

DATE: 8-3-21

TIME: 1900



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ELAP Accredited No. 11770

PLM ASBESTOS BULK MATERIAL SAMPLES

Page 2 of 6

Client: john wood group plc

Sample Date: 8/3/2021

Lab No.: 65464

Contacted Client

Address: 15 justice mill lane

Turn Around: Emerg. Immed. 24 Hr. 48 Hr. 3 Day 5 Day

aberdeem city, scotland, ab11 6eq

Location: 4626 lake rd south,

TEM: Yes No T/R

Contact: charles staples

Brockport, 14420

Phone # Fax #

Samples: 66

Sampled By: K. updyke/B. kehlm

Client ID	Lab ID	Room/Area Location	Color/Description	Material Type	Stop Positive	Layer No.	F - NF NOB	+	TEM
7a	65464-7A	area 1	white stone print	floor tile	6a	1	NOB	-	✓
7b	-7B	area 1	yellow	floor tile mastic	6b	2	NOB	-	✓
8a	-8A	area 1	brown	grout		1	NF	-	
8b	-8B	area 1	grey	set bed		2	NF	-	
9a	-9A	area 1	brown	grout		1	NF	-	
9b	-9B	area 1	grey	set bed		2	NF	-	
10	-10	area 1	white	window glaze			NOB	-	✓
11	-11	area 2	white	base cove mastic			NOB	-	✓
12	-12	area 2	white	base cove mastic	11		NOB	-	✓
13	-13	area 2	yellow	carpet mastic			NOB	-	✓

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Relinquished By:

RECEIVED BY: 08

DATE: 8/3/21 TIME: 1600

DATE: 8321

TIME: 1900



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PLM ASBESTOS BULK MATERIAL SAMPLES

Page 3 of 6

Client:	john wood group plc	Sample Date:	8/3/2021	Lab No.:	65464	Contacted Client:			
Address:	15 justice mill lane	Turn Around:	Emerg. Immed. 24 Hr. 48 Hr. 3 Day 5 Day						
	aberdeem city, scotland, ab11 6eq	Location:	4626 lake rd south, Brockport, 14420	TEM:	Yes	No	T/R		
Contact:	charles staples	Samples:	66	Sampled By:	K. updyke/B. kehm				
Phone #		Fax #							
Client ID	Lab ID	Room/Area Location	Color/Description	Material Type	Stop Positive	Layer No.	F - NF NOB	+	TEM
14	65464-14	area 2	yellow	carpet mastic	13		NOB	-	✓
15	-15	bath	yellow sqaure print 12x12	floor tile			NOB	-	✓
16	-16	bath	yellow sqaure print 12x12	floor tile	15		NOB	-	✓
17a	-17A	closet	black	base cove		1	NOB	-	✓
17b	-17B	closet	black	base cove mastic		2	NOB	-	✓
18a	-18A	closet	black	base cove	17a	1	NOB	-	✓
18b	-18B	closet	black	base cove mastic	17b	2	NOB	-	✓
19a	-19A	closet	tan 9x9	wall tile		1	NOB	+	
19b	-19B	closet	black	wall tile mastic		2	NOB	+	
20a	-20A	closet	tan 9x9	wall tile	19a	1	NOB	SP	

TRANSPORTED TO: LOZIER ENVIRONMENTAL CONSULTING, INC.

Relinquished By:

RECEIVED BY: 88

DATE: 8/3/21 TIME: 1100

DATE: 8-3-21

TIME: 1900



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ELAP Accredited No. 11770

PLM ASBESTOS BULK MATERIAL SAMPLES

Page 4 of 6

Client:	john wood group plc		Sample Date:	8/3/2021	Lab No.:	65464		Contacted Client		
Address:	15 justice mill lane		Turn Around:	Emerg. Immed. 24 Hr. 48 Hr. 3 Day 5 Day						
	aberdeen city, scotland, ab11 6eq		Location:	4626 lake rd south, Brockport, 14420						
Contact:	charles staples		Samples:	66		Sampled By:	K. updyke/B. kehm			
Phone #	Fax #									
Client ID	Lab ID	Room/Area Location	Color/Description	Material Type	Stop Positive	Layer No.	F - NF NOB	+	TEM	
20b	65464 -20B	closet	black	wall tile mastic	14b	2	NOB 5p	-		
21	-21	area 3	2x4 swirl pattern	ceiling tile			F	-	✓	
22	-22	area 3	2x4 swirl pattern	ceiling tile	21		F	-	✓	
23a	-23A	area 3	white	wall joint compound		1	F	-		
23b	-23B	area 3	white	dry wall		2	F	-		
24	-24	area 3	white	window glaze	10		NOB	-	✓	
25	-25	area 5	white	ceiling joint compound			F	-		
26	-26	area 5	white	ceiling joint compound			F	-		
27a	-27A	roof main	grey	shingle		1	NOB	-	✓	
27b	-27B	roof main	black	felt paper		2	NOB	-	✓	

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RECEIVED BY:

DATE: 8/3/21 TIME: 1600

DATE: 8-3-21

TIME: 1900



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PLM ASBESTOS BULK MATERIAL SAMPLES

Page 5 of 6

Client:	john wood group plc	Sample Date:	8/3/2021	Lab No:	65464	Contacted Client:	
Address:	15 justice mill lane	Turn Around:	Emerg. Immed. 24 Hr. 48 Hr. 3 Day 5 Day				
	aberdeem city, scotland, ab11 6eq	Location:	4626 lake rd south, Brockport, 14420	TEM:	Yes	No	T/R
Contact:	charles staples	Samples:	66	Sampled By:	K. Updyke/B. Keim		
Phone #		Fax #					

Client ID	Lab ID	Room/Area Location	Color/Description	Material Type	Stop Positive	Layer No.	F - NF NOB	+	TEM
27	65464	roof main	black	water/ice		3	NOB	-	✓
28a	284	roof main	grey	shingle	27a	1	NOB	-	✓
28b	283	roof main	black	felt paper	27b	2	NOB	-	✓
28c	282	roof main	black	water/ice	27c	3	NOB	-	✓
29a	294	old main roof curb	black	tar		1	NOB	+	
29b	293	old main roof curb	black	tar paper		2	NOB	+	
29c	291	old main roof curb	black	tar		3	NOB	+	
30a	304	old main roof curb	black	tar	29a	1	NOB	SP	
30b	303	old main roof curb	black	tar paper	29b	2	NOB	SP	
30c	302	old main roof curb	black	tar	29c	3	NOB	SP	

Relinquished By:

DATE: 8/3/21 TIME: 1600

TRANSPORTED TO: LOZIER ENVIRONMENTAL CONSULTING, INC.

RECEIVED BY:

DATE: 8.3.21

TIME: 1900



RMA Analytical Services, Inc.
Focused on Results www.rmaah.com
AIHA (#100470) NVLAP (#101143-0) NY ELAP (10920)
4475 Forbes Blvd. • Lanham, MD 20706
(301) 459-2640 • (800) 346-0961 • Fax (301) 459-2643

CHAIN OF CUSTODY

(Please Refer To This
Number For Inquiries)

028847

OMI (410) 247-2024

155202

210 REV. 6.08

Mailing/Billing Information:

1. Client Name: Lozier Environmental Consulting, Inc.
2. Address 1: 2011 East Main Street
3. Address 2: Rochester, NY 14609
4. Address 3: _____
5. Phone #: 585-654-9080 Fax #: 585-654-9667

Submittal Information:

1. Job Name: John Wood Group PLC
2. Job Location: 4626 Lake Road S. Brackport
3. Job #: 65464 P.O. #: _____
4. Contact Person: Jeanne Denike @ phone #: (585) 654-9080
5. Submitted by: Rose M. Savore Signature: [Signature]

Reporting Information (Results will be provided as soon as technically feasible):

AFTER HOURS (must be pre-scheduled)
☐ Immediate Date Due: _____
☐ 24 Hours Time Due: _____
Comments: _____

Reporting Information (Results will be provided as soon as technically feasible):
☒ Same Day (Normal Business Hours)
☐ Immediate
☐ Next Day
☐ 2 Day
☐ 3 Day
☐ 5 Day +
Date Due: 8/14/11
Results Required By Noon (Every Attempt Will Be Made to Accommodate)
☐ Include COC/Field Data Sheets with Report
☐ Email: support@lozierenv.com
☐ Fax: _____
☐ Verbal: _____

Asbestos Analysis

PCM Air - Please Indicate Filter Type:
☐ NIOSH 7400 (QTY) _____
☐ Fiberglass (QTY) _____
TEM Air - Please Indicate Filter Type:
☐ AHERA (QTY) _____
☐ NIOSH 7402 (QTY) _____
☐ Other (specify: _____) (QTY) _____
ELM Bulk
☐ EPA 600 - Visual Estimate (QTY) _____
☐ EPA Point Count (QTY) _____
☐ NY State Friable 198.1 (QTY) _____
☐ Gray Reduction ELAP 198.6 (QTY) _____
☐ Other (specify: _____) (QTY) _____
MISC
☐ Vermiculite
☐ Asbestos Soil ELM (Qual) PLM (Qual) PLM/TEM (Qual)

TEM Bulk

☐ ELAP 198.4/Chaffield (QTY) _____
☐ NY State PLM/TEM (QTY) _____
☒ Residual Ash 24 (QTY) _____
TEM Dust
☐ Qual. (pres/abs) Vacuum/Dust (QTY) _____
☐ Qual. (s/s) Vacuum D5755-95 (QTY) _____
☐ Qual. (s/s) Dust D6480-99 (QTY) _____
TEM Water
☐ Qual. (pres/abs) (QTY) _____
☐ ELAP 198.2/EPA 100.2 (QTY) _____
☐ EPA 100.1 (QTY) _____
☒ All samples received in good condition unless otherwise noted.
TEM Water samples _____ °C

Metals Analysis

☐ Pb Paint Chip (QTY) _____
☐ Pb Dust Wipe (wipe type: _____) (QTY) _____
☐ Pb Air (QTY) _____
☐ Pb Soil/Solid (QTY) _____
☐ Pb TCLP (QTY) _____
☐ Drinking Water ☐ Pb (QTY) ☐ Cu (QTY) ☐ As (QTY) _____
☐ Waste Water ☐ Pb (QTY) ☐ Cu (QTY) ☐ As (QTY) _____
☐ Pb Furnace (Media: _____) (QTY) _____
Fungal Analysis
Collection Apparatus for Spore Traps/Air Samples:
Collection Media: _____
☐ Spore Trap (QTY) _____
☐ Surface Swab (QTY) _____
☐ Surface Tape (QTY) _____
☐ Other (specify: _____) (QTY) _____
☐ Surface Vacuum Dust (QTY) _____
☐ Culturable ID Genus Media (QTY) _____
☐ Culturable ID Species Media (QTY) _____

CLIENT INFORMATION

CLIENT ID: 65464
SAMPLE LOCATION/IDENTIFICATION: 8-10-11
DATE: 8-10-11
VOLUME: _____
WIPE AREA: _____
ANALYSIS: _____
MOLD: _____
AIR: _____
BULK: _____
DUST: _____
MATRIX: _____
WATER AND OTHER: _____
SPORE TRAP: _____
TAPE: _____
SWAB: _____
LABORATORY STAFF ONLY: _____

CLIENT CONTACT

Date/Time: _____ Contact: _____ By: _____
Date/Time: _____ Contact: _____ By: _____
Date/Time: _____ Contact: _____ By: _____
Date/Time: _____ Contact: _____ By: _____

LABORATORY STAFF ONLY:

1. Date/Time RCVD: 8/11/11
2. Date/Time Analyzed: _____
3. Results Reported To: _____
4. Comments: _____

By (Print): [Signature]

Sign: [Signature]

Time: _____

Initials: _____

CERTIFICATIONS

New York State - Department of Labor

Division of Safety and Health
License and Certificate Unit
State Campus, Building 12
Albany, NY 12240

ASBESTOS HANDLING LICENSE

Lozier Environmental Consulting, Inc.

2011 East Main Street

Rochester, NY 14609

FILE NUMBER: 02-0434
LICENSE NUMBER: 29997
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 07/20/2021
EXPIRATION DATE: 08/31/2022

Duly Authorized Representative - Amy Pusateri

This license has been issued in accordance with applicable provisions of Article 80 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.



Amy Phillips, Director
For the Commissioner of Labor

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires: 12:01 AM, April 01, 2022
Issued: April 01, 2021



CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MICHAEL GREENBERG
AMA ANALYTICAL SERVICES INC
4475 FORBES BLVD
LANHAM, MD 20706

NY Lab Id No: 10920

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:

Metals I

Lead, Total

EPA 7000B

Miscellaneous

Asbestos In Friable Material

Item 198.1 of Manual

EPA 600/M4/82/020

Asbestos In Non-Friable Material-PLM

Item 198.6 of Manual (NOB by PLM)

Asbestos In Non-Friable Material-TEM

Item 198.4 of Manual

Lead In Dust Wipes

EPA 7000B

Lead In Paint

EPA 7000B

Sample Preparation Methods

ASTM E-1979-17

Serial No.: 62844

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (516) 486-5570 to verify the laboratory's accreditation status.

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2022
Issued April 01, 2021

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 602 Public Health Law of New York State

MS. JEANNE K. DENIKE
LOZIER ENVIRONMENTAL CONSULTING, INC.
2011 EAST MAIN STREET
ROCHESTER, NY 14609

NY Lab Id No: 11770

Is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:

Miscellaneous

Asbestos in Friable Material

Item 198.1 of Manual

EPA800/M4/02/020

Asbestos in Non-Friable Material-PLM

Item 198.6 of Manual (NOB by PLM)



Department
of Health

Serial No: 63144

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STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE



MICHAEL S WALLER
CLASS(EXPIRES)
C ATEC(09/21) D INSP(09/21)
G SUPR(09/21) H PM (09/21)
I PD (09/21)

CERT# 91-03693
DMV# 59672653

MUST BE CARRIED ON ASBESTOS PROJECTS

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE



KEITH E UPDYKE JR
CLASS(EXPIRES)
C ATEC(02/22) D INSP(02/22)
H PM (02/22)

CERT# 17-31285
DMV# 19009488

MUST BE CARRIED ON ASBESTOS PROJECTS

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE



BRIAN J KEHM
CLASS(EXPIRES)
C ATEC(07/21) D INSP(07/21)
H PM (07/21)

CERT# 16-10461
DMV# 571489285

MUST BE CARRIED ON ASBESTOS PROJECTS

ATTACHMENT 3

WELL AND INJECTION POINT SURVEY

NYSDEC-Ace Cleaners, Monitoring Well Locations and Elevations
Sweden, NY

Elevations

Well	Northing	Easting	Riser	Casing	Ground
MW-14D	1167896.6	1319516.5	560.07	559.7	N/A
MW-113	1167887.9	1319485.2	559.36	559.1	N/A
MW-114	1167891.6	1319504.9	559.04	558.8	N/A
IP-1	1167857.5	1319500.4			559.2
IP-2	1167870.2	1319490.5			559.2
IP-3	1167881.6	1319481.2			559.2
IP-4	1167899.9	1319469.2			559.3
IP-5	1167869.1	1319513.5			559.4
IP-6	1167878.1	1319503.0			558.9
IP-7	1167884.3	1319493.0			559.0
IP-8	1167902.1	1319478.4			559.3



THIS DATA IS BASED UPON A FIELD SURVEY BY PATRIOT DESIGN AND CONSULTING.
COMPLETED ON AUGUST 10, 2021

BEARINGS AND COORDINATES SHOWN HEREON ARE REFERENCED TO A STATIC GPS SURVEY:
NY PLANE COORDINATE SYSTEM, WESETERN ZONE, NAD_83 (2011) POSITION (EPOCH 2010.0);
AND, ELEVATIONS SHOWN HEREON ARE REFERENCED TO NAVD88 (Computed using GEOID18)

ATTACHMENT 4

DATA USABILITY SUMMARY REPORT

**DATA USABILITY SUMMARY REPORT
AUGUST 2021 SOIL AND GROUNDWATER SAMPLING
ACE CLEANERS SITE
BROCKPORT, NEW YORK**

1.0 INTRODUCTION

Soil and groundwater samples were collected at the Ace Dry Cleaners Site in August 2021 and submitted to Test America Laboratories (TAL) located in Buffalo, New York (TAL-BUF), for analysis. Samples included in this review were analyzed by the following method:

- Volatile Organic Compounds (VOCs) by Method 8260C

All results were reported in the following sample delivery groups (SDGs):

- R2107773
- R2107962

A Data Usability Summary Report (DUSR) review was completed based on the New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation guidance (NYSDEC, 2010). Sample event information included in this DUSR is presented in the following Tables:

- Table 1 – Summary of Samples and Analytical Methods
- Table 2 – Summary of Analytical Results
- Table 3 – Summary of Qualification Actions

A summary of table notes applicable to Tables 1, 2, and 3 is presented just before Table 1.

Laboratory deliverables included:

- Category B deliverables as defined in the NYSDEC Analytical Services Protocols (NYSDEC, 2005).

The DUSR review included the following evaluations. A table of the project control limits is presented in Attachment A. Applicable laboratory quality control (QC) summary forms are included in Attachment B to document QC outliers associated with qualification actions.

- Lab Report Narrative Review
- Data Package Completeness and COC Records (Table 1 verification)
- Sample Preservation and Holding Times
- Instrument Calibration (report narrative/lab-qualifier evaluation)
- QC Blanks
- Laboratory Control Samples (LCS)
- Matrix Spike/Matrix Spike Duplicates (MS/MSD)
- Surrogate Spikes (if applicable)
- Field Duplicates
- Target Analyte Identification and Quantitation

- Raw Data (chromatograms), Calculation Checks and Transcription Verifications
- Reporting Limits
- Electronic Data Qualification and Verification

Data qualification actions are applied when necessary based on general procedures in USEPA validation guidelines (USEPA, 2014) and the judgment of the project chemist. The following laboratory or data review qualifiers are used in the final data presentation:

U = target analyte is not detected above the reported detection limit or was qualified not detected

J = concentration is estimated

J- = concentration is estimated with potential low bias

Results are interpreted to be usable as reported by the laboratory or as qualified in the following sections.

2.0 POTENTIAL DATA LIMITATIONS

The result for tetrachloroethene in sample 828133-MW113011 was qualified estimated with potential low bias (J-) based on low recoveries in the associated MS/MSD. The qualified result is included in Table 3 with reason code MSL.

Results for 2-butanone (MEK) in samples 828133-MW14D014 and 828133-MW14D021 were qualified non-detect (U) based on detection in the method blank. Qualified results are summarized in Table 3 with reason code BL1.

3.0 ADDITIONAL QC EXCEEDANCES AND OBSERVATIONS

A subset of samples required dilution due to high concentrations of target compounds. Elevated reporting limits are reported as indicated in Table 2.

Reference:

NYSDEC, 2005. "Analytical Services Protocols"; June 2005.

NYSDEC, 2010. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; DER-10; Division of Environmental Remediation; May 2010.

USEPA, 2014. "Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B"; USEPA Region II; HW-24; Revision 4; September 2014.

Data Validator: Casey Cormier



September 21, 2021

Reviewed by: Julie Ricardi

A handwritten signature in black ink that reads "Julie Ricardi". The signature is written in a cursive style with a large, looped 'J' and a distinct 'i' at the end.

September 30, 2021

Standard Table Notes:

Sample Type (QC Code)

FS – field sample
FD – field duplicate
TB – trip blank
EB – equipment blank
FB – field blank

Matrix

GW – ground water
BW – blank water
TW – tap water
SV – soil vapor
SED - sediment

Units

mg/L – milligrams per liter
ng/L – nanograms per liter
µg/L – micrograms per liter
mg/kg – milligrams per kilogram
µg/kg – micrograms per kilogram
µg/m³ – micrograms per cubic meter

Qualifiers

U – not detected above quantitation limit
J – estimated quantity
J+ - estimated quantity, biased high
J- - estimated quantity, biased low
R – data unusable

Fraction

T – total
D – dissolved
N – normal

Qualification Reason Codes

BL1 – method blank qualifier
BL2 – field or trip blank qualifier
CCV – continuing calibration verification recovery outside limits
CCV%D – continuing calibration verification percent difference exceeds goal
CCVRRF – continuing calibration relative response factor low
CI – chromatographic interference present
DCPD – dual column percent difference exceeds limit
E – result exceeds calibration range
FD – field duplicate precision goal exceeded
FP – false positive interference
HT – holding time for prep or analysis exceeded
HTG – holding time for prep or analysis grossly exceeded
ICV – initial calibration verification recovery outside limit
ICVRRF – initial calibration verification relative response factor low
ICVRS D – initial calibration verification % relative standard deviation exceeds goal
ISH – internal standard response greater than limit
ISL – internal standard response less than limit
LCSH – laboratory control sample recovery high
LCSL – laboratory control sample recovery low
LCSRPD – laboratory control sample/duplicate relative % difference precision goal exceeded
LD – lab duplicate precision goal exceeded
MSH – matrix spike and/or MS duplicate recovery high
MSL – matrix spike and/or MS duplicate recovery low
MSRPD – matrix spike/duplicate relative % difference precision goal exceeded
N – analyte identification is not certain
PEM – performance evaluation mixture exceeds limit
PM – sample percent moisture exceeds EPA guideline
SD – serial dilution result exceeds percent difference limit
SP – sample preservation/collection does not meet method requirement
SSH – surrogate recovery high
SSL – surrogate recovery low
TD – dissolved concentration exceeds total

TABLE 1 -- SUMMARY OF SAMPLES AND ANALYTICAL METHODS
DATA USABILITY SUMMARY REPORT
AUGUST 2021 SOIL AND GROUNDWATER SAMPLING
ACE CLEANERS SITE
BROCKPORT, NEW YORK

							Fraction	N	T	N	N	N	N	N	N	N
							Method	SW8260C	SW6010C	9034	9056A	ALS SOP	RSK175	SM 2320 B- 1997(2011)	SM 4500-S2- F- 2000(2011)	SM350 C- 2000(2011)
Lab SDG	Location	Field Sample ID	Field Sample Date	Media	Lab Sample ID	QC Code		Parameters	Parameters	Parameters	Parameters	Parameters	Parameters	Parameters	Parameters	Parameters
R2107773	GW-1	828133-GW014010	8/3/2021	GW	R2107773-008	FS		60	2		3		3	1	1	1
R2107773	MW-113	828133-MW113006	8/3/2021	SOIL	R2107773-002	FS		60				1				
R2107773	MW-113	828133-MW113009	8/3/2021	SOIL	R2107773-003	FS		60				1				
R2107773	MW-113	828133-MW113011	8/3/2021	GW	R2107773-005	FS		60	2	1	3		3	1		1
R2107773	MW-114	828133-MW114009	8/3/2021	SOIL	R2107773-004	FS		60				1				
R2107773	MW-114	828133-MW114012	8/3/2021	GW	R2107773-006	FS		60	2	1	3		3	1		1
R2107773	MW-114	828133-MW114012D	8/3/2021	GW	R2107773-007	FD		60								
R2107773	MW-14D	828133-MW14D0013	8/3/2021	SOIL	R2107773-001	FS		60				1				
R2107962	MW-14D	828133-MW14D014	8/4/2021	SOIL	R2107962-001	FS		60								
R2107962	MW-14D	828133-MW14D021	8/4/2021	SOIL	R2107962-002	FS		60								

Created by: WCG 9/23/2021
Checked by: CLC 9/23/2021

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
AUGUST 2021 SOIL AND GROUNDWATER SAMPLING
ACE CLEANERS SITE
BROCKPORT, NEW YORK

					SDG	R2107773		R2107773		R2107773		R2107773	
					Location	MW-113		MW-113		MW-114		MW-14D	
					Sample Date	8/3/2021		8/3/2021		8/3/2021		8/3/2021	
					Field Sample ID	828133-MW113006		828133-MW113009		828133-MW114009		828133-MW14D0013	
					QC Code	FS		FS		FS		FS	
						Final	Final	Final	Final	Final	Final	Final	Final
Media	Fraction	Analysis			Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
S	N	ALS SOP	Percent Solids, Residual		PERCENT	86.1		83		85.3		87.5	
S	N	SW8260C	1,1,1-Trichloroethane		UG/KG	0.84	U	0.9	U	0.91	U	0.95	U
S	N	SW8260C	1,1,2,2-Tetrachloroethane		UG/KG	0.84	U	0.9	U	0.91	U	0.95	U
S	N	SW8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)		UG/KG	0.84	U	0.9	U	0.91	U	0.95	U
S	N	SW8260C	1,1,2-Trichloroethane		UG/KG	0.84	U	0.9	U	0.91	U	0.95	U
S	N	SW8260C	1,1-Dichloroethane		UG/KG	0.84	U	0.9	U	0.91	U	0.95	U
S	N	SW8260C	1,1-Dichloroethene		UG/KG	1.6		1.6		0.54	J	0.91	J
S	N	SW8260C	1,2,3-Trichlorobenzene		UG/KG	0.84	U	0.9	U	0.91	U	0.95	U
S	N	SW8260C	1,2,4-Trichlorobenzene		UG/KG	0.84	U	0.9	U	0.91	U	0.95	U
S	N	SW8260C	1,2,4-Trimethylbenzene		UG/KG	0.84	U	0.9	U	0.91	U	0.95	U
S	N	SW8260C	1,2-Dibromo-3-chloropropane		UG/KG	1.7	U	1.8	U	1.8	U	1.9	U
S	N	SW8260C	1,2-Dibromoethane		UG/KG	0.84	U	0.9	U	0.91	U	0.95	U
S	N	SW8260C	1,2-Dichlorobenzene		UG/KG	0.84	U	0.9	U	0.91	U	0.22	J
S	N	SW8260C	1,2-Dichloroethane		UG/KG	0.84	U	0.9	U	0.91	U	0.95	U
S	N	SW8260C	1,2-Dichloropropane		UG/KG	0.84	U	0.9	U	0.91	U	0.95	U
S	N	SW8260C	1,3,5-Trimethylbenzene		UG/KG	0.84	U	0.9	U	0.91	U	0.95	U
S	N	SW8260C	1,3-Dichlorobenzene		UG/KG	0.84	U	0.9	U	0.91	U	0.95	U
S	N	SW8260C	1,4-Dichlorobenzene		UG/KG	0.84	U	0.9	U	0.91	U	0.95	U
S	N	SW8260C	1,4-Dioxane		UG/KG	33	U	36	U	37	U	38	U
S	N	SW8260C	2-Butanone		UG/KG	4.2	U	4.5	U	4.6	U	4.7	U
S	N	SW8260C	2-Hexanone		UG/KG	4.2	U	4.5	U	4.6	U	4.7	U
S	N	SW8260C	4-iso-Propyltoluene		UG/KG	0.84	U	0.9	U	0.91	U	0.95	U
S	N	SW8260C	4-Methyl-2-pentanone		UG/KG	4.2	U	4.5	U	4.6	U	4.7	U
S	N	SW8260C	Acetic acid, methyl ester		UG/KG	1.7	U	1.8	U	1.8	U	1.9	U
S	N	SW8260C	Acetone		UG/KG	21	U	23	U	23	U	24	U
S	N	SW8260C	Benzene		UG/KG	0.84	U	0.9	U	0.91	U	0.95	U
S	N	SW8260C	Bromochloromethane		UG/KG	0.84	U	0.9	U	0.91	U	0.95	U
S	N	SW8260C	Bromodichloromethane		UG/KG	0.84	U	0.9	U	0.91	U	0.95	U
S	N	SW8260C	Bromoform		UG/KG	0.84	U	0.9	U	0.91	U	0.95	U
S	N	SW8260C	Bromomethane		UG/KG	4.2	U	4.5	U	4.6	U	4.7	U
S	N	SW8260C	Carbon disulfide		UG/KG	0.84	U	0.9	U	0.38	J	0.95	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
AUGUST 2021 SOIL AND GROUNDWATER SAMPLING
ACE CLEANERS SITE
BROCKPORT, NEW YORK

					SDG	R2107773		R2107773		R2107773		R2107773	
					Location	MW-113		MW-113		MW-114		MW-14D	
					Sample Date	8/3/2021		8/3/2021		8/3/2021		8/3/2021	
					Field Sample ID	828133-MW113006		828133-MW113009		828133-MW114009		828133-MW14D0013	
					QC Code	FS		FS		FS		FS	
		Analysis				Final	Final	Final	Final	Final	Final	Final	Final
Media	Fraction	Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	
S	N	SW8260C	Carbon tetrachloride	UG/KG	0.84	U	0.9	U	0.91	U	0.95	U	
S	N	SW8260C	Chlorobenzene	UG/KG	0.84	U	0.9	U	0.91	U	0.95	U	
S	N	SW8260C	Chloroethane	UG/KG	0.84	U	0.9	U	0.91	U	0.95	U	
S	N	SW8260C	Chloroform	UG/KG	0.84	U	0.9	U	0.91	U	0.95	U	
S	N	SW8260C	Chloromethane	UG/KG	1.7	U	1.8	U	1.8	U	1.9	U	
S	N	SW8260C	cis-1,2-Dichloroethene	UG/KG	3.7		3.7		6.3		3.9		
S	N	SW8260C	cis-1,3-Dichloropropene	UG/KG	0.84	U	0.9	U	0.91	U	0.95	U	
S	N	SW8260C	Cyclohexane	UG/KG	0.84	U	0.9	U	0.91	U	0.95	U	
S	N	SW8260C	Dibromochloromethane	UG/KG	0.84	U	0.9	U	0.91	U	0.95	U	
S	N	SW8260C	Dichlorodifluoromethane	UG/KG	0.84	U	0.9	U	0.91	U	0.95	U	
S	N	SW8260C	Ethylbenzene	UG/KG	0.84	U	0.91	U	0.92	U	0.95	U	
S	N	SW8260C	Isopropylbenzene	UG/KG	0.84	U	0.9	U	0.91	U	0.95	U	
S	N	SW8260C	Methyl cyclohexane	UG/KG	0.84	U	0.9	U	0.91	U	0.95	U	
S	N	SW8260C	Methyl Tertbutyl Ether	UG/KG	0.84	U	0.9	U	0.91	U	0.95	U	
S	N	SW8260C	Methylene chloride	UG/KG	4.2	U	4.5	U	4.6	U	4.7	U	
S	N	SW8260C	n-Butylbenzene	UG/KG	0.84	U	0.9	U	0.91	U	0.95	U	
S	N	SW8260C	Naphthalene	UG/KG	0.84	U	0.9	U	0.91	U	0.95	U	
S	N	SW8260C	Propylbenzene	UG/KG	0.84	U	0.9	U	0.91	U	0.95	U	
S	N	SW8260C	sec-Butylbenzene	UG/KG	0.84	U	0.9	U	0.91	U	0.95	U	
S	N	SW8260C	Styrene	UG/KG	0.84	U	0.91	U	0.92	U	0.95	U	
S	N	SW8260C	tert-Butylbenzene	UG/KG	0.84	U	0.9	U	0.91	U	0.95	U	
S	N	SW8260C	Tetrachloroethene	UG/KG	410		520		770		3,600		
S	N	SW8260C	Toluene	UG/KG	4.2	U	4.5	U	4.6	U	4.7	U	
S	N	SW8260C	trans-1,2-Dichloroethene	UG/KG	0.84	U	0.22	J	0.91	U	0.95	U	
S	N	SW8260C	trans-1,3-Dichloropropene	UG/KG	0.84	U	0.9	U	0.91	U	0.95	U	
S	N	SW8260C	Trichloroethene	UG/KG	21		18		21		36		
S	N	SW8260C	Trichlorofluoromethane	UG/KG	0.84	U	0.9	U	0.91	U	0.95	U	
S	N	SW8260C	Vinyl chloride	UG/KG	0.47	J	5.5		0.91	U	0.95	U	
S	N	SW8260C	Xylene, o	UG/KG	0.84	U	0.91	U	0.92	U	0.95	U	
S	N	SW8260C	Xylenes (m&p)	UG/KG	1.7	U	1.9	U	1.9	U	1.9	U	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
AUGUST 2021 SOIL AND GROUNDWATER SAMPLING
ACE CLEANERS SITE
BROCKPORT, NEW YORK

					SDG	R2107962		R2107962	
					Location	MW-14D		MW-14D	
					Sample Date	8/4/2021		8/4/2021	
					Field Sample ID	828133-MW14D014		828133-MW14D021	
					QC Code	FS		FS	
Media	Fraction	Analysis				Final	Final	Final	Final
		Method	Parameter	Units		Result	Qualifier	Result	Qualifier
S	N	ALS SOP	Percent Solids, Residual	PERCENT					
S	N	SW8260C	1,1,1-Trichloroethane	UG/KG		100 U		50 U	
S	N	SW8260C	1,1,2,2-Tetrachloroethane	UG/KG		100 U		50 U	
S	N	SW8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	UG/KG		100 U		50 U	
S	N	SW8260C	1,1,2-Trichloroethane	UG/KG		100 U		50 U	
S	N	SW8260C	1,1-Dichloroethane	UG/KG		100 U		50 U	
S	N	SW8260C	1,1-Dichloroethene	UG/KG		100 U		50 U	
S	N	SW8260C	1,2,3-Trichlorobenzene	UG/KG		100 U		50 U	
S	N	SW8260C	1,2,4-Trichlorobenzene	UG/KG		100 U		50 U	
S	N	SW8260C	1,2,4-Trimethylbenzene	UG/KG		100 U		50 U	
S	N	SW8260C	1,2-Dibromo-3-chloropropane	UG/KG		200 U		100 U	
S	N	SW8260C	1,2-Dibromoethane	UG/KG		100 U		50 U	
S	N	SW8260C	1,2-Dichlorobenzene	UG/KG		100 U		50 U	
S	N	SW8260C	1,2-Dichloroethane	UG/KG		100 U		50 U	
S	N	SW8260C	1,2-Dichloropropane	UG/KG		100 U		50 U	
S	N	SW8260C	1,3,5-Trimethylbenzene	UG/KG		100 U		50 U	
S	N	SW8260C	1,3-Dichlorobenzene	UG/KG		100 U		50 U	
S	N	SW8260C	1,4-Dichlorobenzene	UG/KG		100 U		50 U	
S	N	SW8260C	1,4-Dioxane	UG/KG		4,000 U		2,000 U	
S	N	SW8260C	2-Butanone	UG/KG		500 U		250 U	
S	N	SW8260C	2-Hexanone	UG/KG		500 U		250 U	
S	N	SW8260C	4-iso-Propyltoluene	UG/KG		100 U		50 U	
S	N	SW8260C	4-Methyl-2-pentanone	UG/KG		500 U		250 U	
S	N	SW8260C	Acetic acid, methyl ester	UG/KG		200 U		100 U	
S	N	SW8260C	Acetone	UG/KG		2,500 U		1,300 U	
S	N	SW8260C	Benzene	UG/KG		100 U		50 U	
S	N	SW8260C	Bromochloromethane	UG/KG		100 U		50 U	
S	N	SW8260C	Bromodichloromethane	UG/KG		100 U		50 U	
S	N	SW8260C	Bromoform	UG/KG		100 U		50 U	
S	N	SW8260C	Bromomethane	UG/KG		500 U		250 U	
S	N	SW8260C	Carbon disulfide	UG/KG		100 U		50 U	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
AUGUST 2021 SOIL AND GROUNDWATER SAMPLING
ACE CLEANERS SITE
BROCKPORT, NEW YORK

				SDG	R2107962	R2107962
				Location	MW-14D	MW-14D
				Sample Date	8/4/2021	8/4/2021
				Field Sample ID	828133-MW14D014	828133-MW14D021
				QC Code	FS	FS
Media	Fraction	Analysis Method	Parameter	Units	Final Result	Final Qualifier
S	N	SW8260C	Carbon tetrachloride	UG/KG	100 U	50 U
S	N	SW8260C	Chlorobenzene	UG/KG	100 U	50 U
S	N	SW8260C	Chloroethane	UG/KG	100 U	50 U
S	N	SW8260C	Chloroform	UG/KG	100 U	50 U
S	N	SW8260C	Chloromethane	UG/KG	200 U	100 U
S	N	SW8260C	cis-1,2-Dichloroethene	UG/KG	100 U	50 U
S	N	SW8260C	cis-1,3-Dichloropropene	UG/KG	100 U	50 U
S	N	SW8260C	Cyclohexane	UG/KG	100 U	50 U
S	N	SW8260C	Dibromochloromethane	UG/KG	100 U	50 U
S	N	SW8260C	Dichlorodifluoromethane	UG/KG	100 U	50 U
S	N	SW8260C	Ethylbenzene	UG/KG	100 U	50 U
S	N	SW8260C	Isopropylbenzene	UG/KG	100 U	50 U
S	N	SW8260C	Methyl cyclohexane	UG/KG	100 U	50 U
S	N	SW8260C	Methyl Tertbutyl Ether	UG/KG	100 U	50 U
S	N	SW8260C	Methylene chloride	UG/KG	500 U	250 U
S	N	SW8260C	n-Butylbenzene	UG/KG	100 U	50 U
S	N	SW8260C	Naphthalene	UG/KG	100 U	50 U
S	N	SW8260C	Propylbenzene	UG/KG	100 U	50 U
S	N	SW8260C	sec-Butylbenzene	UG/KG	100 U	50 U
S	N	SW8260C	Styrene	UG/KG	100 U	50 U
S	N	SW8260C	tert-Butylbenzene	UG/KG	100 U	50 U
S	N	SW8260C	Tetrachloroethene	UG/KG	11,000	50 U
S	N	SW8260C	Toluene	UG/KG	500 U	250 U
S	N	SW8260C	trans-1,2-Dichloroethene	UG/KG	100 U	50 U
S	N	SW8260C	trans-1,3-Dichloropropene	UG/KG	100 U	50 U
S	N	SW8260C	Trichloroethene	UG/KG	150	50 U
S	N	SW8260C	Trichlorofluoromethane	UG/KG	100 U	50 U
S	N	SW8260C	Vinyl chloride	UG/KG	100 U	50 U
S	N	SW8260C	Xylene, o	UG/KG	100 U	50 U
S	N	SW8260C	Xylenes (m&p)	UG/KG	200 U	100 U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
AUGUST 2021 SOIL AND GROUNDWATER SAMPLING
ACE CLEANERS SITE
BROCKPORT, NEW YORK

					SDG	R2107773		R2107773		R2107773		R2107773	
					Location	GW-1		MW-113		MW-114		MW-114	
					Sample Date	8/3/2021		8/3/2021		8/3/2021		8/3/2021	
					Field Sample ID	828133-GW014010		828133-MW113011		828133-MW114012		828133-MW114012D	
					QC Code	FS		FS		FS		FD	
Media	Fraction	Method	Parameter	Units		Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
L	N	SW8260C	1,1,1-Trichloroethane	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	1,1,2,2-Tetrachloroethane	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	1,1,2-Trichloroethane	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	1,1-Dichloroethane	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	1,1-Dichloroethene	UG/L		5.4 J		24 J		5.2 J		9.6 J	
L	N	SW8260C	1,2,3-Trichlorobenzene	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	1,2,4-Trichlorobenzene	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	1,2,4-Trimethylbenzene	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	1,2-Dibromo-3-chloropropane	UG/L		20 U		50 U		40 U		50 U	
L	N	SW8260C	1,2-Dibromoethane	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	1,2-Dichlorobenzene	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	1,2-Dichloroethane	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	1,2-Dichloropropane	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	1,3,5-Trimethylbenzene	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	1,3-Dichlorobenzene	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	1,4-Dichlorobenzene	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	1,4-Dioxane	UG/L		400 U		1000 U		800 U		1000 U	
L	N	SW8260C	2-Butanone	UG/L		50 U		130 U		100 U		130 U	
L	N	SW8260C	2-Hexanone	UG/L		50 U		130 U		100 U		130 U	
L	N	SW8260C	4-iso-Propyltoluene	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	4-Methyl-2-pentanone	UG/L		50 U		130 U		100 U		130 U	
L	N	SW8260C	Acetic acid, methyl ester	UG/L		20 U		50 U		40 U		50 U	
L	N	SW8260C	Acetone	UG/L		50 U		130 U		100 U		130 U	
L	N	SW8260C	Benzene	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	Bromochloromethane	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	Bromodichloromethane	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	Bromoform	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	Bromomethane	UG/L		10 U		25 U		20 U		25 U	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
AUGUST 2021 SOIL AND GROUNDWATER SAMPLING
ACE CLEANERS SITE
BROCKPORT, NEW YORK

					SDG	R2107773		R2107773		R2107773		R2107773	
					Location	GW-1		MW-113		MW-114		MW-114	
					Sample Date	8/3/2021		8/3/2021		8/3/2021		8/3/2021	
					Field Sample ID	828133-GW014010		828133-MW113011		828133-MW114012		828133-MW114012D	
					QC Code	FS		FS		FS		FD	
Media	Fraction	Method	Parameter	Units		Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
L	N	SW8260C	Carbon disulfide	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	Carbon tetrachloride	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	Chlorobenzene	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	Chloroethane	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	Chloroform	UG/L		10 U		13 J		20 U		25 U	
L	N	SW8260C	Chloromethane	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	cis-1,2-Dichloroethene	UG/L		280		67		20 J		20 J	
L	N	SW8260C	cis-1,3-Dichloropropene	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	Cyclohexane	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	Dibromochloromethane	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	Dichlorodifluoromethane	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	Ethylbenzene	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	Isopropylbenzene	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	Methyl cyclohexane	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	Methyl Tertbutyl Ether	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	Methylene chloride	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	n-Butylbenzene	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	Naphthalene	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	Propylbenzene	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	sec-Butylbenzene	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	Styrene	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	tert-Butylbenzene	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	Tetrachloroethene	UG/L		1,100		3,600 J-		2,300		3,200	
L	N	SW8260C	Toluene	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	trans-1,2-Dichloroethene	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	trans-1,3-Dichloropropene	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	Trichloroethene	UG/L		150		260		67		89	
L	N	SW8260C	Trichlorofluoromethane	UG/L		10 U		25 U		20 U		25 U	
L	N	SW8260C	Vinyl chloride	UG/L		4.7 J		27		20 U		25 U	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
AUGUST 2021 SOIL AND GROUNDWATER SAMPLING
ACE CLEANERS SITE
BROCKPORT, NEW YORK

					SDG	R2107773		R2107773		R2107773		R2107773	
					Location	GW-1		MW-113		MW-114		MW-114	
					Sample Date	8/3/2021		8/3/2021		8/3/2021		8/3/2021	
					Field Sample ID	828133-GW014010		828133-MW113011		828133-MW114012		828133-MW114012D	
					QC Code	FS		FS		FS		FD	
						Final	Final	Final	Final	Final	Final	Final	Final
Media	Fraction	Analysis			Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Method	Parameter												
L	N	SW8260C	Xylene, o		UG/L	10	U	25	U	20	U	25	U
L	N	SW8260C	Xylenes (m&p)		UG/L	20	U	50	U	40	U	50	U
L	N	RSK175	Ethane		UG/L	1.2		0.67	J	0.49	J		
L	N	RSK175	Ethene		UG/L	1	U	0.35	J	1	U		
L	N	RSK175	Methane		UG/L	7.7		7.7		5.1			
L	T	SW6010C	Iron		UG/L	2,500		4,250		6,890			
L	T	SW6010C	Manganese		UG/L	1,400		4,550		3,070			
L	N	9034	Sulfide		MG/L			1	U	1	U		
L	N	9056A	Chloride		MG/L	301		298		317			
L	N	9056A	Nitrate as N		MG/L	1	U	1	U	1	U		
L	N	9056A	Sulfate		MG/L	102		60.7		70			
L	N	SM 2320 B	Total Alkalinity, as CaCO3		MG/L	487		422		443			
L	N	SM 4500-S	Sulfide		MG/L	1.4	U						
L	N	SM350 C-2	Total Organic Carbon		MG/L	10.3		4.1		3.4			

TABLE 3 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
AUGUST 2021 SOIL AND GROUNDWATER SAMPLING
ACE CLEANERS SITE
BROCKPORT, NEW YORK

Lab SDG	Analysis Method	Lab Sample ID	Sample Date	Field Sample ID	Fraction	Parameter Name	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units
R2107773	SW8260C	R2107773-005	8/3/2021	828133-MW113011	N	Tetrachloroethene	3600		3,600	J-	MSL	UG/L
R2107962	SW8260C	R2107962-001	8/4/2021	828133-MW14D014	N	2-Butanone	210	BJ	500	U	BL1	UG/KG
R2107962	SW8260C	R2107962-002	8/4/2021	828133-MW14D021	N	2-Butanone	170	BJ	250	U	BL1	UG/KG

Created by: WCG 9/28/2021
Checked by: CLC 9/30/2021

ATTACHMENT A
SUMMARY OF VALIDATION QC LIMITS FOR SURROGATES, SPIKES, AND DUPLICATES
BASED ON THE REGION 2 VALIDATION GUIDELINES

PARAMETER	QC TEST	ANALYTE	Soil	Soil	WATER	Water
			(%R)	(RPD)	(%R)	(RPD)
Volatiles	Surrogate	All Surrogate Compounds	70 - 130		80 - 120	
	LCS	All Target Compounds	70 - 130		70 - 130	
	MS/MSD	All Target Compounds	70 - 130	35	70 - 130	20
	Field Duplicate	All Target Compounds		100		50

Notes:

(1) For PFAS, surrogate = extracted isotope dilution standard

LCS - Laboratory Control Sample

MS/MSD - Matrix spike/ Matrix Spike Duplicate

RPD = Relative percent difference

%R = percent recovery

QC Limits are based on USEPA Region II Data Validation Guidelines and Project QA/QC Objectives

**DATA USABILITY SUMMARY REPORT
AUGUST 2021 SOIL AND GROUNDWATER SAMPLING
ACE CLEANER'S SITE
BROCKPORT, NEW YORK**

ATTACHMENT B

VOCs

NYSDEC DUSR PROJECT CHEMIST REVIEW RECORD

Project: Ace Cleaners

Method: SW8260C

Laboratory: ALS Environmental - Rochester Laboratory **SDG(s):** R2107773

Date: 9/17/2021

Reviewer: Casey Cormier

Review Level ☒ NYSDEC DUSR ☐ USEPA Region II Guideline

Check if Reviewed

1. ☒ **Case Narrative Review and COC/Data Package Completeness**

Were problems noted? YES ☒ NO ☐

Are Field Sample IDs and Locations assigned correctly? YES ☒ NO ☐

Were all the samples on the COC analyzed for the requested analyses? YES ☒ NO ☐

2. ☒ **Holding time and Sample Collection**

All samples were analyzed within the 14-day holding time. YES ☒ NO ☐

3. ☒ **QC Blanks**

Are method blanks free of contamination? YES ☐ NO ☒

Are Trip blanks free of contamination? YES ☐ NO ☒

Are Rinse blanks free of contamination? YES ☐ NO ☐ NA ☒

RQ2109687-04 for PCE Only. Trip Blank not submitted.

4. ☒ **Instrument Tuning – Data Package Narrative Review**

Did the laboratory narrative identify any results that were not within method criteria?
YES ☐ NO ☒

If yes, use professional judgment to evaluate data and qualify results if needed

5. ☒ **Instrument Calibration – Data Package Narrative Review**

Did the laboratory narrative identify compounds that were not within criteria in the initial and/or continuing calibration standards? YES ☒ NO ☐

Initial Calibration %RSD = 20% (30% for 1,1-DCE, chloroform, 1,2-DCP, toluene, ethylbenzene, VC)

Initial Avg RRF and Continuing RRF should be ≥ 0.05 and 0.10 for Chloromethane, 1,1-Dichloroethane, Bromoform and 0.30 for Chlorobenzene and 1,1,2,2-Tetrachloroethane

Continuing Calibration %D = 20%

Did the laboratory qualify results based on initial or continuing calibration exceedances?
YES ☐ NO ☒

If yes to above, use professional judgment to evaluate data and qualify results if needed

6. **Internal Standards – Data Package Narrative Review**

(Area Limits = -50% to +100%, RTs within 30 seconds of daily CCAL standard (or ICAL mid-point if samples follow ICAL))

Did the laboratory narrative identify any sample internal standards that were not within criteria?

YES ☐ NO ☒

Did the laboratory qualify results based on internal standard exceedances? YES ☐ NO ☒

If yes to above, use professional judgment to evaluate data and qualify results if needed

7. ☒ **Surrogate Recovery** - Region II limits (water 80-120%, soil 70-130%)

Were all results within Region II limits? YES ☒ NO ☐

8. ☒ **Matrix Spike** - Region II limits (water and soil 70-130%, water RPD 20, soil RPD 35)

Were MS/MSDs submitted/analyzed? YES ☒ NO ☐

Were all results within the Region II limits? YES ☐ NO ☒ NA ☐

9. ☒ **Duplicates** - Region II Limits (water RPD 50, soil RPD 100)

Were Field Duplicates submitted/analyzed? YES ☒ NO ☐

Were all results within Region II limits? (soil RPD<100, water RPD<50) YES ☐ NO ☒ NA ☐

10. ☒ **Laboratory Control Sample Results** - Region II (Water and soil 70-130%)

Were all results within Region II control limits? YES ☐ NO ☒

LCS 2109687-03 applies only to PCE. ND No Qual.

11. ☒ **Reporting Limits:** Were samples analyzed at a dilution? YES ☒ NO ☐

R2107773-001, -002, -003, -004 rerun at higher dilution due to PCE exceeding calibration range

12. ☒ **Raw Data Review and Calculation Checks**

13. ☒ **Electronic Data Review and Edits**

Does the EDD match the Form Is? YES ☒ NO ☐

14. ☒ **Tables and TIC Review**

Table 1 (Samples and Analytical Methods)

Table 2 (Analytical Results)

Table 3 (Qualification Actions)

Were all tables produced and reviewed? YES ☒ NO ☐

Table 4 (TICs) Did lab report TICs? YES ☐ NO ☒

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133
Sample Matrix: Soil, Water

Service Request: R2107773
Date Received: 08/03/2021

CASE NARRATIVE

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

Sample Receipt:

Eight soil, water samples were received for analysis at ALS Environmental on 08/03/2021. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

One or more samples were subcontracted to another laboratory for testing. The certified analytical report from the subcontractor has been included in its entirety at the end of this report and includes the name and address of the subcontracted laboratory.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

Method SM 4500-S2-F-2000(2011), R2107773-008: The Method Reporting Limit (MRL) for was elevated due to less than optimal sample volume/mass available for analysis.

Subcontracted Analytical Parameters:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

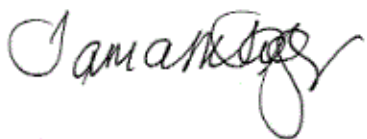
Method 8260C, 08/08/2021: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Method 8260C, 08/11/2021: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 08/11/2021: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 08/11/2021: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Method 8260C, 08/11/2021: The lower control limit for the spike recovery of the Laboratory Control Sample (LCS) was exceeded for one analyte. There were no detections of the analyte in the associated field samples. The discrepancy associated with reduced recovery equates to a potential low bias. Additional analysis of the associated field samples was not performed because the low recovery is due to the presence of methanol (and the samples are dilutions for a different target analyte.) The analyte affected is flagged in the LCS Summary.



Approved by _____

Date 08/26/2021

Method 8260C, 08/13/2021: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

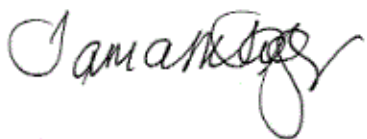
Method 8260C, 08/13/2021: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 08/13/2021: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Method 8260C, 08/13/2021: The matrix spike recovery of one or more of the spiked analytes was outside of control limits because of sample heterogeneity. The sample contained a background concentration of the analyte such that sample heterogeneity significantly affected the spike recovery calculation. No further corrective action was required.

Volatiles by GC:

Method RSK 175, R2107773-005,006,008: Analysis was performed on a sample with headspace. Headspace-free sample was not available.



Approved by _____

Date 08/26/2021

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125
Sample Matrix: Water

Service Request: R2107773
Date Collected: 08/03/21
Date Received: 08/03/21
Date Analyzed: 08/13/21
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: 828133-MW113011
Lab Code: R2107773-005
Analysis Method: 8260C
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2109842-05			Duplicate Matrix Spike RQ2109842-06			% Rec Limits: 70 - 130			RPD Limit	
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	Limits	RPD			
1,1,1-Trichloroethane (TCA)	25 U	1370	1250	110	1430	1250	114	74-127	4	30	OK	
1,1,2,2-Tetrachloroethane	25 U	1550	1250	124 *	1590	1250	127 *	72-122	2	30		
1,1,2-Trichloroethane	25 U	1270	1250	102	1300	1250	104	82-121	2	30		
1,1,2-Trichloro-1,2,2-trifluoroethane	25 U	1440	1250	115	1430	1250	115	50-147	<1	30	OK	
1,1-Dichloroethane (1,1-DCA)	25 U	1520	1250	122	1520	1250	121	74-132	<1	30		
1,1-Dichloroethene (1,1-DCE)	24 J	1540	1250	122 *	1620	1250	127 *	71-118	5	30		
1,2,3-Trichlorobenzene	25 U	1270	1250	101	1330	1250	106	59-129	4	30		
1,2,4-Trichlorobenzene	25 U	1280	1250	102	1370	1250	109	69-122	7	30		
1,2,4-Trimethylbenzene	25 U	1490	1250	119	1550	1250	124	73-133	4	30		
1,2-Dibromo-3-chloropropane (DBCP)	50 U	1290	1250	103	1380	1250	110	37-150	6	30		
1,2-Dibromoethane	25 U	1260	1250	101	1300	1250	104	67-127	3	30		
1,2-Dichlorobenzene	25 U	1260	1250	101	1300	1250	104	77-120	3	30		
1,2-Dichloroethane	25 U	1160	1250	93	1210	1250	97	68-130	4	30		
1,2-Dichloropropane	25 U	1390	1250	111	1430	1250	114	79-124	3	30		
1,3,5-Trimethylbenzene	25 U	1480	1250	118	1530	1250	122	81-131	3	30	ND No Qual	
1,3-Dichlorobenzene	25 U	1280	1250	102	1300	1250	104	83-121	2	30		
1,4-Dichlorobenzene	25 U	1200	1250	96	1300	1250	104	82-120	8	30		
1,4-Dioxane	1000 U	23300	25000	93	24100	25000	96	44-154	3	30		
2-Butanone (MEK)	130 U	1150	1250	92	1190	1250	95	61-137	4	30		
2-Hexanone	130 U	1180	1250	94	1140	1250	91	56-132	3	30		
4-Isopropyltoluene	25 U	1430	1250	114	1490	1250	119	78-133	4	30		
4-Methyl-2-pentanone	130 U	1160	1250	93	1200	1250	96	60-141	3	30		
Acetone	130 U	1230	1250	99	1180	1250	95	35-183	4	30		
Benzene	25 U	1320	1250	106	1400	1250	112	76-129	6	30		
Bromochloromethane	25 U	1320	1250	105	1390	1250	111	80-122	5	30	ND No Qual	
Bromodichloromethane	25 U	1190	1250	95	1290	1250	103	78-133	9	30		
Bromoform	25 U	1200	1250	96	1330	1250	106	58-133	10	30		
Bromomethane	25 U	901	1250	72	849	1250	68	10-184	6	30		
Carbon Disulfide	25 U	1580	1250	126	1660	1250	132	59-140	5	30		
Carbon Tetrachloride	25 U	1200	1250	96	1310	1250	104	65-135	9	30	ND No Qual	
Chlorobenzene	25 U	1230	1250	98	1260	1250	101	76-125	2	30		
Chloroethane	25 U	1580	1250	126	1660	1250	133	48-146	5	30		
Chloroform	13 J	1430	1250	114	1470	1250	117	75-130	2	30		

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

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

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

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

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125
Sample Matrix: Water

Service Request: R2107773
Date Collected: 08/03/21
Date Received: 08/03/21
Date Analyzed: 08/13/21
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: 828133-MW113011
Lab Code: R2107773-005
Analysis Method: 8260C
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2109842-05			Duplicate Matrix Spike RQ2109842-06			% Rec Limits	RPD	RPD Limit	
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec				
Chloromethane	25 U	1710	1250	136	1640	1250	131	55-160	4	30	ND No Qual
Cyclohexane	25 U	1050	1250	84	1130	1250	90	52-145	7	30	
Dibromochloromethane	25 U	1280	1250	102	1300	1250	104	72-128	2	30	
Dichlorodifluoromethane (CFC 12)	25 U	2070	1250	166 *	2070	1250	165 *	49-154	<1	30	ND No Qual
Dichloromethane	25 U	1540	1250	123 *	1500	1250	120	73-122	2	30	
Ethylbenzene	25 U	1290	1250	103	1310	1250	104	72-134	2	30	
Isopropylbenzene (Cumene)	25 U	1540	1250	124	1600	1250	128	77-128	4	30	
Methyl Acetate	50 U	1640	1250	131 *	1680	1250	135 *	26-121	3	30	ND No Qual
Methyl tert-Butyl Ether	25 U	1390	1250	112	1460	1250	117	75-119	4	30	
Methylcyclohexane	25 U	1310	1250	105	1410	1250	112	45-146	7	30	
Naphthalene	25 U	1450	1250	116	1530	1250	123	57-153	6	30	
Styrene	25 U	1410	1250	113	1420	1250	114	74-136	<1	30	
Tetrachloroethene (PCE)	3600	4140	1250	42 *	4620	1250	80	72-125	11	30	J-MSL
Toluene	25 U	1360	1250	109	1430	1250	114	79-119	5	30	
Trichloroethene (TCE)	260	1400	1250	92	1480	1250	98	74-122	5	30	
Trichlorofluoromethane (CFC 11)	25 U	1250	1250	100	1310	1250	105	71-136	5	30	
Vinyl Chloride	27	1530	1250	120	1560	1250	123	74-159	2	30	
cis-1,2-Dichloroethene	67	1480	1250	113	1520	1250	116	77-127	3	30	
cis-1,3-Dichloropropene	25 U	1310	1250	105	1420	1250	114	52-134	8	30	
m,p-Xylenes	50 U	2680	2500	107	2740	2500	110	80-126	2	30	
n-Butylbenzene	25 U	1440	1250	116	1530	1250	123	78-133	6	30	
n-Propylbenzene	25 U	1520	1250	122	1590	1250	128	78-131	4	30	
o-Xylene	25 U	1320	1250	105	1340	1250	107	79-123	2	30	
sec-Butylbenzene	25 U	1480	1250	118	1530	1250	122	75-129	3	30	
tert-Butylbenzene	25 U	1470	1250	118	1520	1250	122	68-127	3	30	
trans-1,2-Dichloroethene	25 U	1520	1250	121 *	1490	1250	119 *	73-118	2	30	OK
trans-1,3-Dichloropropene	25 U	1310	1250	105	1390	1250	111	71-133	6	30	

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

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

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

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

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125
Sample Matrix: Soil

Service Request: R2107773
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2109687-04

Units: ug/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Applies only to PCE

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	50 U	50	10	50	08/11/21 12:53	
1,1,2,2-Tetrachloroethane	50 U	50	22	50	08/11/21 12:53	
1,1,2-Trichloroethane	50 U	50	10	50	08/11/21 12:53	
1,1,2-Trichloro-1,2,2-trifluoroethane	50 U	50	10	50	08/11/21 12:53	
1,1-Dichloroethane (1,1-DCA)	50 U	50	10	50	08/11/21 12:53	
1,1-Dichloroethene (1,1-DCE)	50 U	50	15	50	08/11/21 12:53	
1,2,3-Trichlorobenzene	50 U	50	26	50	08/11/21 12:53	
1,2,4-Trichlorobenzene	50 U	50	21	50	08/11/21 12:53	
1,2,4-Trimethylbenzene	50 U	50	10	50	08/11/21 12:53	
1,2-Dibromo-3-chloropropane (DBCP)	100 U	100	38	50	08/11/21 12:53	
1,2-Dibromoethane	50 U	50	10	50	08/11/21 12:53	
1,2-Dichlorobenzene	50 U	50	10	50	08/11/21 12:53	
1,2-Dichloroethane	50 U	50	10	50	08/11/21 12:53	
1,2-Dichloropropane	50 U	50	10	50	08/11/21 12:53	
1,3,5-Trimethylbenzene	50 U	50	10	50	08/11/21 12:53	
1,3-Dichlorobenzene	50 U	50	10	50	08/11/21 12:53	
1,4-Dichlorobenzene	50 U	50	11	50	08/11/21 12:53	
1,4-Dioxane	2000 U	2000	1000	50	08/11/21 12:53	
2-Butanone (MEK)	170 J	250	100	50	08/11/21 12:53	
2-Hexanone	250 U	250	18	50	08/11/21 12:53	
4-Isopropyltoluene	50 U	50	10	50	08/11/21 12:53	
4-Methyl-2-pentanone	250 U	250	12	50	08/11/21 12:53	
Acetone	1300 U	1300	750	50	08/11/21 12:53	
Benzene	50 U	50	10	50	08/11/21 12:53	
Bromochloromethane	50 U	50	10	50	08/11/21 12:53	
Bromodichloromethane	50 U	50	10	50	08/11/21 12:53	
Bromoform	50 U	50	25	50	08/11/21 12:53	
Bromomethane	250 U	250	110	50	08/11/21 12:53	
Carbon Disulfide	50 U	50	15	50	08/11/21 12:53	
Carbon Tetrachloride	50 U	50	13	50	08/11/21 12:53	
Chlorobenzene	50 U	50	10	50	08/11/21 12:53	
Chloroethane	50 U	50	21	50	08/11/21 12:53	
Chloroform	50 U	50	10	50	08/11/21 12:53	
Chloromethane	150	100	70	50	08/11/21 12:53	
Cyclohexane	50 U	50	13	50	08/11/21 12:53	
Dibromochloromethane	50 U	50	10	50	08/11/21 12:53	
Dichlorodifluoromethane (CFC 12)	50 U	50	17	50	08/11/21 12:53	
Dichloromethane	250 U	250	140	50	08/11/21 12:53	
Ethylbenzene	50 U	50	50	50	08/11/21 12:53	
Isopropylbenzene (Cumene)	50 U	50	10	50	08/11/21 12:53	
Methyl Acetate	89 J	100	42	50	08/11/21 12:53	
Methyl tert-Butyl Ether	50 U	50	10	50	08/11/21 12:53	
Methylcyclohexane	50 U	50	16	50	08/11/21 12:53	

ALS Group USA, Corp.
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Analytical Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125
Sample Matrix: Soil

Service Request: R2107773
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2109687-04

Units: ug/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Naphthalene	50 U	50	50	50	08/11/21 12:53	
Styrene	50 U	50	50	50	08/11/21 12:53	
Tetrachloroethene (PCE)	50 U	50	12	50	08/11/21 12:53	
Toluene	250 U	250	100	50	08/11/21 12:53	
Trichloroethene (TCE)	50 U	50	11	50	08/11/21 12:53	
Trichlorofluoromethane (CFC 11)	50 U	50	13	50	08/11/21 12:53	
Vinyl Chloride	50 U	50	23	50	08/11/21 12:53	
cis-1,2-Dichloroethene	50 U	50	10	50	08/11/21 12:53	
cis-1,3-Dichloropropene	50 U	50	10	50	08/11/21 12:53	
m,p-Xylenes	100 U	100	100	50	08/11/21 12:53	
n-Butylbenzene	50 U	50	10	50	08/11/21 12:53	
n-Propylbenzene	50 U	50	10	50	08/11/21 12:53	
o-Xylene	50 U	50	50	50	08/11/21 12:53	
sec-Butylbenzene	50 U	50	10	50	08/11/21 12:53	
tert-Butylbenzene	50 U	50	10	50	08/11/21 12:53	
trans-1,2-Dichloroethene	50 U	50	10	50	08/11/21 12:53	
trans-1,3-Dichloropropene	50 U	50	10	50	08/11/21 12:53	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	113	31 - 154	08/11/21 12:53	
Dibromofluoromethane	95	63 - 138	08/11/21 12:53	
Toluene-d8	103	66 - 138	08/11/21 12:53	

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Analytical Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125
Sample Matrix: Water

Service Request: R2107773
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2109842-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	08/13/21 12:09	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	08/13/21 12:09	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	08/13/21 12:09	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	08/13/21 12:09	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	08/13/21 12:09	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	08/13/21 12:09	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	08/13/21 12:09	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	08/13/21 12:09	
1,2,4-Trimethylbenzene	1.0 U	1.0	0.20	1	08/13/21 12:09	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	08/13/21 12:09	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	08/13/21 12:09	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	08/13/21 12:09	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	08/13/21 12:09	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	08/13/21 12:09	
1,3,5-Trimethylbenzene	1.0 U	1.0	0.20	1	08/13/21 12:09	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	08/13/21 12:09	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	08/13/21 12:09	
1,4-Dioxane	40 U	40	13	1	08/13/21 12:09	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	08/13/21 12:09	
2-Hexanone	5.0 U	5.0	0.20	1	08/13/21 12:09	
4-Isopropyltoluene	1.0 U	1.0	0.20	1	08/13/21 12:09	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	08/13/21 12:09	
Acetone	5.0 U	5.0	5.0	1	08/13/21 12:09	
Benzene	1.0 U	1.0	0.20	1	08/13/21 12:09	
Bromochloromethane	1.0 U	1.0	0.20	1	08/13/21 12:09	
Bromodichloromethane	1.0 U	1.0	0.20	1	08/13/21 12:09	
Bromoform	1.0 U	1.0	0.25	1	08/13/21 12:09	
Bromomethane	1.0 U	1.0	0.70	1	08/13/21 12:09	
Carbon Disulfide	1.0 U	1.0	0.42	1	08/13/21 12:09	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	08/13/21 12:09	
Chlorobenzene	1.0 U	1.0	0.20	1	08/13/21 12:09	
Chloroethane	1.0 U	1.0	0.23	1	08/13/21 12:09	
Chloroform	1.0 U	1.0	0.24	1	08/13/21 12:09	
Chloromethane	0.34 J	1.0	0.28	1	08/13/21 12:09	ND No Qual
Cyclohexane	1.0 U	1.0	0.26	1	08/13/21 12:09	
Dibromochloromethane	1.0 U	1.0	0.20	1	08/13/21 12:09	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	08/13/21 12:09	
Dichloromethane	1.0 U	1.0	0.65	1	08/13/21 12:09	
Ethylbenzene	1.0 U	1.0	0.20	1	08/13/21 12:09	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	08/13/21 12:09	
Methyl Acetate	2.0 U	2.0	0.33	1	08/13/21 12:09	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	08/13/21 12:09	
Methylcyclohexane	1.0 U	1.0	0.20	1	08/13/21 12:09	

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QA/QC Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125
Sample Matrix: Soil

Service Request: R2107773
Date Analyzed: 08/08/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis:Dry

Lab Control Sample
RQ2109547-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits	
Chloromethane	8260C	27.7	20.0	139 *	10-131	ND No Qual
Cyclohexane	8260C	20.1	20.0	101	67-122	
Dibromochloromethane	8260C	18.1	20.0	90	68-121	
Dichlorodifluoromethane (CFC 12)	8260C	22.5	20.0	113	51-144	
Dichloromethane	8260C	17.5	20.0	87	72-118	
Ethylbenzene	8260C	17.2	20.0	86	64-118	
Isopropylbenzene (Cumene)	8260C	17.4	20.0	87	60-123	
Methyl Acetate	8260C	25.3	20.0	126 *	31-122	OK
Methyl tert-Butyl Ether	8260C	17.8	20.0	89	76-118	
Methylcyclohexane	8260C	21.2	20.0	106	70-124	
Naphthalene	8260C	17.3	20.0	87	68-127	
Styrene	8260C	16.5	20.0	83	74-117	
Tetrachloroethene (PCE)	8260C	17.9	20.0	90	58-124	
Toluene	8260C	17.8	20.0	89	72-116	
Trichloroethene (TCE)	8260C	18.3	20.0	92	69-118	
Trichlorofluoromethane (CFC 11)	8260C	21.5	20.0	108	52-127	
Vinyl Chloride	8260C	24.5	20.0	122	59-153	
cis-1,2-Dichloroethene	8260C	19.2	20.0	96	79-113	
cis-1,3-Dichloropropene	8260C	19.1	20.0	95	66-117	
m,p-Xylenes	8260C	34.2	40.0	86	68-118	
n-Butylbenzene	8260C	16.5	20.0	83	54-131	
n-Propylbenzene	8260C	17.6	20.0	88	59-126	
o-Xylene	8260C	16.8	20.0	84	71-116	
sec-Butylbenzene	8260C	16.5	20.0	82	54-128	
tert-Butylbenzene	8260C	16.3	20.0	82	58-123	
trans-1,2-Dichloroethene	8260C	19.1	20.0	95	73-114	
trans-1,3-Dichloropropene	8260C	19.7	20.0	98	57-135	

ALS Group USA, Corp.
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QA/QC Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125
Sample Matrix: Soil

Service Request: R2107773
Date Analyzed: 08/11/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis:Dry

Lab Control Sample
RQ2109687-03

Applies only to PCE

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	16.5	20.0	82	68-123
1,1,2,2-Tetrachloroethane	8260C	24.0	20.0	120	78-121
1,1,2-Trichloroethane	8260C	19.4	20.0	97	84-117
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	14.9	20.0	75	54-121
1,1-Dichloroethane (1,1-DCA)	8260C	18.4	20.0	92	76-123
1,1-Dichloroethene (1,1-DCE)	8260C	17.1	20.0	86	65-115
1,2,3-Trichlorobenzene	8260C	18.4	20.0	92	60-128
1,2,4-Trichlorobenzene	8260C	17.8	20.0	89	62-130
1,2,4-Trimethylbenzene	8260C	18.8	20.0	94	67-121
1,2-Dibromo-3-chloropropane (DBCP)	8260C	19.7	20.0	98	54-135
1,2-Dibromoethane	8260C	17.9	20.0	90	77-117
1,2-Dichlorobenzene	8260C	17.8	20.0	89	75-116
1,2-Dichloroethane	8260C	17.6	20.0	88	74-116
1,2-Dichloropropane	8260C	19.5	20.0	97	79-112
1,3,5-Trimethylbenzene	8260C	18.1	20.0	91	66-122
1,3-Dichlorobenzene	8260C	17.1	20.0	86	72-118
1,4-Dichlorobenzene	8260C	16.6	20.0	83	72-117
1,4-Dioxane	8260C	454	400	114	59-147
2-Butanone (MEK)	8260C	24.1	20.0	121	67-129
2-Hexanone	8260C	19.8	20.0	99	68-118
4-Isopropyltoluene	8260C	17.2	20.0	86	58-128
4-Methyl-2-pentanone	8260C	21.0	20.0	105	64-123
Acetone	8260C	18.4 J	20.0	92	32-154
Benzene	8260C	17.9	20.0	89	77-114
Bromochloromethane	8260C	18.9	20.0	95	78-117
Bromodichloromethane	8260C	17.1	20.0	86	72-118
Bromoform	8260C	17.2	20.0	86	55-134
Bromomethane	8260C	3.67 J	20.0	18	10-150
Carbon Disulfide	8260C	21.2	20.0	106	44-139
Carbon Tetrachloride	8260C	13.9	20.0	69	51-123
Chlorobenzene	8260C	16.9	20.0	85	79-115
Chloroethane	8260C	7.39	20.0	37	10-140
Chloroform	8260C	19.5	20.0	97	76-115

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QA/QC Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125
Sample Matrix: Soil

Service Request: R2107773
Date Analyzed: 08/11/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis:Dry

Lab Control Sample
RQ2109687-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	26.8	20.0	134 *	10-131
Cyclohexane	8260C	17.0	20.0	85	67-122
Dibromochloromethane	8260C	17.1	20.0	86	68-121
Dichlorodifluoromethane (CFC 12)	8260C	25.4	20.0	127	51-144
Dichloromethane	8260C	20.1	20.0	101	72-118
Ethylbenzene	8260C	16.3	20.0	82	64-118
Isopropylbenzene (Cumene)	8260C	18.0	20.0	90	60-123
Methyl Acetate	8260C	35.9	20.0	179 *	31-122
Methyl tert-Butyl Ether	8260C	20.8	20.0	104	76-118
Methylcyclohexane	8260C	20.7	20.0	104	70-124
Naphthalene	8260C	22.2	20.0	111	68-127
Styrene	8260C	19.0	20.0	95	74-117
Tetrachloroethene (PCE)	8260C	14.1	20.0	70	58-124
Toluene	8260C	17.9	20.0	89	72-116
Trichloroethene (TCE)	8260C	14.7	20.0	74	69-118
Trichlorofluoromethane (CFC 11)	8260C	3.99	20.0	20 *	52-127
Vinyl Chloride	8260C	19.0	20.0	95	59-153
cis-1,2-Dichloroethene	8260C	18.6	20.0	93	79-113
cis-1,3-Dichloropropene	8260C	20.0	20.0	100	66-117
m,p-Xylenes	8260C	34.1	40.0	85	68-118
n-Butylbenzene	8260C	18.3	20.0	91	54-131
n-Propylbenzene	8260C	18.6	20.0	93	59-126
o-Xylene	8260C	16.8	20.0	84	71-116
sec-Butylbenzene	8260C	18.0	20.0	90	54-128
tert-Butylbenzene	8260C	17.3	20.0	87	58-123
trans-1,2-Dichloroethene	8260C	19.3	20.0	97	73-114
trans-1,3-Dichloropropene	8260C	20.2	20.0	101	57-135

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125
Sample Matrix: Water

Service Request: R2107773
Date Analyzed: 08/13/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2109842-03

% Rec Limits: 70 - 130

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	21.5	20.0	108	75-125
1,1,2,2-Tetrachloroethane	8260C	25.4	20.0	127 *	78-126 OK
1,1,2-Trichloroethane	8260C	20.0	20.0	100	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	22.3	20.0	112	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	22.8	20.0	114	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	23.5	20.0	118	71-118
1,2,3-Trichlorobenzene	8260C	22.0	20.0	110	67-136
1,2,4-Trichlorobenzene	8260C	21.7	20.0	109	75-132
1,2,4-Trimethylbenzene	8260C	23.8	20.0	119	81-126
1,2-Dibromo-3-chloropropane (DBCP)	8260C	19.6	20.0	98	55-136
1,2-Dibromoethane	8260C	20.2	20.0	101	82-127
1,2-Dichlorobenzene	8260C	21.6	20.0	108	80-119
1,2-Dichloroethane	8260C	18.9	20.0	94	71-127
1,2-Dichloropropane	8260C	22.1	20.0	110	80-119
1,3,5-Trimethylbenzene	8260C	24.0	20.0	120	81-128
1,3-Dichlorobenzene	8260C	21.3	20.0	107	83-121
1,4-Dichlorobenzene	8260C	19.8	20.0	99	79-119
1,4-Dioxane	8260C	374	400	94	44-154
2-Butanone (MEK)	8260C	18.9	20.0	95	61-137
2-Hexanone	8260C	16.9	20.0	84	63-124
4-Isopropyltoluene	8260C	23.4	20.0	117	78-133
4-Methyl-2-pentanone	8260C	18.6	20.0	93	66-124
Acetone	8260C	17.9	20.0	89	40-161
Benzene	8260C	20.2	20.0	101	79-119
Bromochloromethane	8260C	22.3	20.0	112	81-126
Bromodichloromethane	8260C	18.7	20.0	93	81-123
Bromoform	8260C	18.6	20.0	93	65-146
Bromomethane	8260C	18.2	20.0	91	42-166
Carbon Disulfide	8260C	22.8	20.0	114	66-128
Carbon Tetrachloride	8260C	18.3	20.0	92	70-127
Chlorobenzene	8260C	19.9	20.0	99	80-121
Chloroethane	8260C	25.8	20.0	129	62-131
Chloroform	8260C	22.2	20.0	111	79-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125
Sample Matrix: Water

Service Request: R2107773
Date Analyzed: 08/13/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2109842-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	25.3	20.0	127	65-135
Cyclohexane	8260C	16.3	20.0	81	69-120
Dibromochloromethane	8260C	18.9	20.0	94	72-128
Dichlorodifluoromethane (CFC 12)	8260C	31.5	20.0	157 *	59-155
Dichloromethane	8260C	24.1	20.0	121	73-122
Ethylbenzene	8260C	21.4	20.0	107	76-120
Isopropylbenzene (Cumene)	8260C	25.1	20.0	126	77-128
Methyl Acetate	8260C	24.9	20.0	125	61-133
Methyl tert-Butyl Ether	8260C	23.0	20.0	115	75-118
Methylcyclohexane	8260C	20.9	20.0	104	51-129
Naphthalene	8260C	23.7	20.0	118	59-140
Styrene	8260C	22.0	20.0	110	80-124
Tetrachloroethene (PCE)	8260C	18.1	20.0	90	72-125
Toluene	8260C	21.4	20.0	107	79-119
Trichloroethene (TCE)	8260C	18.3	20.0	92	74-122
Trichlorofluoromethane (CFC 11)	8260C	20.0	20.0	100	71-136
Vinyl Chloride	8260C	24.0	20.0	120	74-159
cis-1,2-Dichloroethene	8260C	23.6	20.0	118	80-121
cis-1,3-Dichloropropene	8260C	21.8	20.0	109	77-122
m,p-Xylenes	8260C	43.3	40.0	108	80-126
n-Butylbenzene	8260C	23.9	20.0	119	78-133
n-Propylbenzene	8260C	25.3	20.0	126	78-131
o-Xylene	8260C	20.3	20.0	101	79-123
sec-Butylbenzene	8260C	24.0	20.0	120	75-129
tert-Butylbenzene	8260C	22.7	20.0	113	76-126
trans-1,2-Dichloroethene	8260C	22.5	20.0	113	73-118
trans-1,3-Dichloropropene	8260C	20.7	20.0	103	71-133

ND No
Qual

Data Path : I:\ACQUDATA\MSVOA14\Data\080821\
 Data File : F8080.D
 Acq On : 8 Aug 2021 6:21 pm
 Operator : F.NAEGLER
 Sample : R2107773-001|0.83
 Misc : WOOD 19396 T4
 ALS Vial : 15 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Aug 10 15:48:29 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S072721.M
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE
 QLast Update : Wed Jul 28 08:34:22 2021
 Response via : Initial Calibration

rpt MED (1/50)

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.681	168	486808	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.931	114	817029	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	725304	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.735	152	321193	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.529	113	250066	50.48	ug/L	0.00
Spiked Amount 50.000	Range 63 - 138		Recovery = 100.96%			
47) SURR1,1,2-dichloroetha...	5.114	65	333354	53.24	ug/L	0.00
Spiked Amount 50.000	Range 67 - 128		Recovery = 106.48%			
64) SURR3,Toluene-d8	7.943	98	1010252	50.86	ug/L	0.00
Spiked Amount 50.000	Range 66 - 138		Recovery = 101.72%			
69) SURR2,BFB	10.723	95	341491	46.16	ug/L	0.00
Spiked Amount 50.000	Range 31 - 154		Recovery = 92.32%			
Target Compounds						
						Qvalue
3) Chloromethane	1.151	50	1599	0.31	ug/L #	54
4) Vinyl Chloride	1.218	62	2133	0.40	ug/L #	44
13) 1,1-Dicethene	2.005	96	3841	0.96	ug/L	95
15) Acetone	2.041	43	13742	5.78	ug/L	97
16) 2-Propanol	2.151	45	1831	4.11	ug/L	77
17) Iodomethane	2.121	142	1061	2.47	ug/L #	64
21) Methyl Acetate	2.310	43	2983	0.68	ug/L	70
22) Methylene Chloride	2.389	84	2169	0.41	ug/L	96
33) cis-1,2-Dichloroethene	3.779	96	22155	4.16	ug/L	90
34) 2-Butanone	3.846	43	3042	0.93	ug/L	76
53) Trichloroethene	6.297	130	200821	37.64	ug/L	95
65) Toluene	8.022	91	34966	1.60	ug/L	97
71) Tetrachloroethene	8.674	164	9194200	2499.08	ug/L	95
102) 1,2-Dclbenz	12.064	146	2164	0.23	ug/L	88
107) Naphthalen	13.551	128	4376	0.26	ug/L	94

E-Over Calibration

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa12\Data\081121\
 Data File : K5793.D
 Acq On : 11 Aug 2021 1:37 pm
 Operator : KRuest
 Sample : R2107773-001|80
 Misc : WOOD MED T4
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

DL

Quant Time: Aug 11 15:34:23 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W072021.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Wed Jul 21 10:52:27 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.438	168	320298	50.00	ppb	-0.01
43) 1,4-Difluorobenzene	6.523	114	533919	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	493010	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	255463	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	136153	46.27	ppb	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery	=	92.54%	
48) surr1,1,2-dichloroetha...	5.846	65	194335	48.14	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	96.28%	
65) SURR3,Toluene-d8	8.315	98	662725	50.21	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	100.42%	
70) SURR2,BFB	10.870	95	270910	52.88	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	105.76%	
Target Compounds						
3) Chloromethane	1.317	50	8521	2.73	ppb	Qvalue 84
5) Bromomethane	1.622	94	2034	0.80	ppb	97
17) Iodomethane	2.445	142	3656	2.37	ppb	74
40) Chloroform	5.029	83	2894m	0.24	ppb	
47) 1,1-Dichloropropene	5.511	75	369	Below Cal	#	25
54) Trichloroethene	6.834	130	2505	0.67	ppb	# 56
72) Tetrachloroethene	8.968	164	120004	39.51	ppb	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA14\Data\080821\
 Data File : F8081.D
 Acq On : 8 Aug 2021 6:45 pm
 Operator : F.NAEGLER
 Sample : R2107773-002|0.72
 Misc : WOOD 19396 T4
 ALS Vial : 16 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Aug 10 15:50:32 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S072721.M
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE
 QLast Update : Wed Jul 28 08:34:22 2021
 Response via : Initial Calibration

rpt MED (1/50)

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.681	168	480491	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.931	114	774023	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	713430	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.735	152	346678	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.529	113	228155	48.62	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery	=	97.24%	
47) SURR1,1,2-dichloroetha...	5.108	65	317600	53.54	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery	=	107.08%	
64) SURR3,Toluene-d8	7.943	98	958752	50.95	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery	=	101.90%	
69) SURR2,BFB	10.723	95	338957	48.37	ug/L	0.00
Spiked Amount	50.000	Range 31 - 154	Recovery	=	96.74%	
Target Compounds						
3) Chloromethane	1.152	50	1092	0.22	ug/L	Qvalue 83
4) Vinyl Chloride	1.212	62	2972	0.57	ug/L	83
13) 1,1-Dicethene	2.005	96	7677	1.94	ug/L #	79
15) Acetone	2.042	43	12389	5.28	ug/L	92
16) 2-Propanol	2.151	45	984	2.24	ug/L	90
17) Iodomethane	2.127	142	902	2.45	ug/L	74
21) Methyl Acetate	2.310	43	2654	0.62	ug/L #	50
22) Methylene Chloride	2.383	84	2448	0.47	ug/L #	76
33) cis-1,2-Dichloroethene	3.779	96	23266	4.43	ug/L	85
53) Trichloroethene	6.297	130	127489	25.23	ug/L	97
65) Toluene	8.022	91	33065	1.59	ug/L	94
71) Tetrachloroethene	8.668	164	1449395	400.52	ug/L	98

E-Over Calibration

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa12\Data\081121\
 Data File : K5794.D
 Acq On : 11 Aug 2021 1:59 pm
 Operator : KRuest
 Sample : R2107773-002|87
 Misc : WOOD MED T4
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Aug 11 15:36:28 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W072021.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Wed Jul 21 10:52:27 2021
 Response via : Initial Calibration

DL

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.444	168	317030	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	528563	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	488453	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	261977	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	132889	45.62	ppb	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery =	91.24%		
48) surr1,1,2-dichloroetha...	5.852	65	196357	49.14	ppb	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery =	98.28%		
65) SURR3,Toluene-d8	8.315	98	674907	51.65	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	103.30%		
70) SURR2,BFB	10.870	95	275564	54.33	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	108.66%		
Target Compounds						
3) Chloromethane	1.323	50	6587	2.13	ppb	Qvalue 78
5) Bromomethane	1.622	94	2374	0.94	ppb	# 73
17) Iodomethane	2.451	142	3033m	2.19	ppb	
54) Trichloroethene	6.834	130	1204m	0.32	ppb	
72) Tetrachloroethene	8.968	164	12276	4.08	ppb	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa12\Data\081321\
 Data File : K5903.D
 Acq On : 13 Aug 2021 7:51 pm
 Operator : KRuest
 Sample : R2107773-005|25
 Misc : WOOD 8260 T4
 ALS Vial : 24 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Aug 17 17:30:22 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W072021.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Wed Jul 21 10:52:27 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.450	168	289384	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	474045	50.00	ppb	0.00
71) d5-Chlorobenzene	9.803	117	442361	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	213955	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	127304	48.73	ppb	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery =	97.46%		
48) surr1,1,2-dichloroetha...	5.853	65	174570	48.71	ppb	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery =	97.42%		
65) SURR3,Toluene-d8	8.315	98	623212	53.18	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	106.36%		
70) SURR2,BFB	10.870	95	238167	52.36	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	104.72%		
Target Compounds						
4) Vinyl Chloride	1.402	62	3447	1.09	ppb	Qvalue 87
13) 1,1-Dicethene	2.341	96	2356	0.95	ppb	# 78
15) Acetone	2.402	43	1427	Below	Cal	# 46
19) Acetonitrile	2.713	40	979	5.04	ppb	# 1
34) cis-1,2-Dichloroethene	4.456	96	8612	2.68	ppb	# 68
40) Chloroform	5.042	83	3924m	0.51	ppb	
47) 1,1-Dichloropropene	5.499	75	367	Below	Cal	# 43
54) Trichloroethene	6.834	130	34186	10.23	ppb	97
72) Tetrachloroethene	8.968	164	394234	144.66	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Calculation Checks for NYSDEC DUSR

Site: Ace Cleaners

SDG = R2107773

Initial Calibration Check

Instrument ID = MSVOA14

Compound Name = **Trichloroethene**

rt= 6.30 min

Internal standard Name = 1,4-difluorobenzene

Level	Concentration (ug/kg)	Compound Area	Internal Std Conc (ug/kg)	Internal Std Area	RF
1	1	4984	50	747764	0.3332602
2	2	9414	50	728690	0.3229768
3	5	25867	50	766415	0.3375064
4	20	104102	50	773483	0.3364715
5	50	249213	50	769140	0.3240151
6	100	478854	50	788023	0.3038325
7	150	788721	50	782267	0.3360835
8	200	1069444	50	841551	0.3177003
				Avg =	0.3264808
				%RSD =	3.71%

CCV

Continuing Calibration Check

Date = 8/8/2021

Time = 12:34

Concentration (ug/kg)	Compound Area	Internal Std Conc (ug/kg)	Internal Std Area	RF
50	254626	50	844901	0.3013679
				% D =
				-7.69%

LCS

LCS= LCS

Date = 8/8/2021

Time = 13:10

Compound Area	Internal Std Conc (ug/kg)	Internal Std Area	RF
99706	50	832745	0.326480803
Concentration (ug/L)=			18.34

Instrument concentration OKAY

Sample Calculation Check

Field Sample ID = 828133-MW14D0013

Lab Sample ID = R2107773-001

Date = 8/8/2021

Time = 18:21

Compound Area	Internal Std Conc (ug/kg)	Internal Std Area	RF
200821	50	817029	0.326481
Concentration (ug/kg) =			37.64
Sample Wt (kg) =			0.006030
Dilution Factor =			1.000
Water Extraction (mL) =			5.000
% Solid =			0.875
Final Concentration (ug/Kg dry) =			35.672098

Instrument concentration OKAY

Final concentration OKAY

Field Sample ID = 828133-MW113006

Lab Sample ID = R2107773-002

Date = 8/8/2021

Time = 18:45

Compound Area	Internal Std Conc (ug/kg)	Internal Std Area	RF
127489	50	774023	0.326481
Concentration (ug/kg) =			25.23
Sample Wt (kg) =			0.006910
Dilution Factor =			1.000
Water Extraction (mL) =			5.000
% Solid =			0.861
Final Concentration (ug/Kg dry) =			21.199226

Instrument concentration OKAY

Final concentration OKAY

SDG = R2107773

Initial Calibration Check

Instrument ID = MSVOA-12

Compound Name = **Trichloroethene**

rt= 6.30 min

al standard Name = 1,4-difluorobenzene

Level	Concentration (ug/L)	Compound Area	Internal Std Conc (ug/L)	Internal Std Area	RF
1	0.5	1723	50	466665	0.369216
2	1	3775	50	508213	0.371399
3	2	6919	50	477388	0.362336
4	5	18316	50	494787	0.370179
5	20	65148	50	476847	0.341556
6	50	171928	50	498192	0.345104
7	100	354019	50	520034	0.340381
8	150	554204	50	539397	0.342484
9	200	739483	50	562935	0.328405
				Avg =	0.35234
				%RSD =	4.04%

CCV

Continuing Calibration Check

Date = 8/11/2021

Time = 10:53

Concentration (ug/L)	Compound Area	Internal Std Conc (ug/L)	Internal Std Area	RF
50	188162	50	590355	0.318727
			% D =	-9.54%

LCS

LCS= LCS-MED

Date = 8/11/2021

Time = 11:43

Compound Area	Internal Std Conc (ug/L)	Internal Std Area	RF
53725	50	517330	0.352340025
			Concentration (ug/L)= 14.74

Instrument concentration OKAY

Sample Calculation Check

Field Sample ID = 828133-MW113011

Lab Sample ID = R2107773-005

Date = 8/13/2021

Time = 19:51

Compound Area	Internal Std Conc (ug/L)	Internal Std Area	RF
34186	50	474045	0.352340
			Concentration (ug/L) = 10.23
			Dilution Factor = 25.000
			Final Concentration (ug/L) = 255.844892

Instrument concentration OKAY

Final concentration OKAY

Field Sample ID = 828133-MW14D0013DL

Lab Sample ID = R2107773-001DL

Date = 8/11/2021

Time = 13:37

Compound Area	Internal Std Conc (ug/L)	Internal Std Area	RF
2505	50	533919	0.35234
			Concentration (ug/L) = 0.67
			Sample Wt (g) = 6.77
			Dilution Factor = 1.00
			Methanol Extraction (mL) = 10.00
			Soil Aliquot (uL) = 1000.00
			Soil Extract Volume (mL) = 50.00
			% Solid (decimal) = 87.50
			Final Concentration (ug/Kg dry) = 61

Instrument concentration OKAY

Final concentration OKAY

Field Sample ID = 828133-MW113006DL

Lab Sample ID = R2107773-002DL

Date = 8/11/2021

Time = 13:59

Compound Area	Internal Std Conc (ug/L)	Internal Std Area	RF	
1204.0000	50.0000	528563.0000	0.3523	
Concentration (ug/L) =			0.3232	Instrument concentration OKAY
		Sample Wt (g) =	6.2500	
		Dilution Factor =	1.0000	
		Methanol Extraction (mL) =	10.0000	
		Soil Aliquot (uL) =	1000.0000	
		Soil Extract Volume (mL) =	50.0000	
		% Solid (decimal) =	86.1000	
		Final Concentration (ug/Kg dry) =	32.6441	Final concentration OKAY

VOCs

NYSDEC DUSR PROJECT CHEMIST REVIEW RECORD

Project: Ace Cleaners

Method: SW8260C

Laboratory: ALS Environmental - Rochester Laboratory **SDG(s):** R2107962

Date: 9/17/2021

Reviewer: Casey Cormier

Review Level ☒ NYSDEC DUSR ☐ USEPA Region II Guideline

Check if Reviewed

1. ☒ **Case Narrative Review and COC/Data Package Completeness**

Were problems noted? YES ☒ NO ☐

Are Field Sample IDs and Locations assigned correctly? YES ☒ NO ☐

Were all the samples on the COC analyzed for the requested analyses? YES ☒ NO ☐

2. ☒ **Holding time and Sample Collection**

All samples were analyzed within the 14-day holding time. YES ☒ NO ☐

3. ☒ **QC Blanks**

Are method blanks free of contamination? YES ☐ NO ☒

Are Trip blanks free of contamination? YES ☐ NO ☒

Are Rinse blanks free of contamination? YES ☐ NO ☐ NA ☒

2-butanone in method blank; see attached; trip blank not submitted

4. ☒ **Instrument Tuning – Data Package Narrative Review**

Did the laboratory narrative identify any results that were not within method criteria?
YES ☐ NO ☒

If yes, use professional judgment to evaluate data and qualify results if needed

5. ☒ **Instrument Calibration – Data Package Narrative Review**

Did the laboratory narrative identify compounds that were not within criteria in the initial and/or continuing calibration standards? YES ☒ NO ☐

Initial Calibration %RSD = 20% (30% for 1,1-DCE, chloroform, 1,2-DCP, toluene, ethylbenzene, VC)

Initial Avg RRF and Continuing RRF should be ≥ 0.05 and 0.10 for Chloromethane, 1,1-Dichloroethane, Bromoform and 0.30 for Chlorobenzene and 1,1,2,2-Tetrachloroethane

Continuing Calibration %D = 20%

Did the laboratory qualify results based on initial or continuing calibration exceedances?

YES ☐ NO ☒

If yes to above, use professional judgment to evaluate data and qualify results if needed

6. **Internal Standards – Data Package Narrative Review**

(Area Limits = -50% to +100%, RTs within 30 seconds of daily CCAL standard (or ICAL mid-point if samples follow ICAL))

Did the laboratory narrative identify any sample internal standards that were not within criteria?

YES ☐ NO ☒

Did the laboratory qualify results based on internal standard exceedances? YES ☐ NO ☒

If yes to above, use professional judgment to evaluate data and qualify results if needed

7. ☒ **Surrogate Recovery** - Region II limits (water 80-120%, soil 70-130%)

Were all results within Region II limits? YES ☒ NO ☐

8. ☒ **Matrix Spike** - Region II limits (water and soil 70-130%, water RPD 20, soil RPD 35)

Were MS/MSDs submitted/analyzed? YES ☐ NO ☒

Were all results within the Region II limits? YES ☐ NO ☐ NA ☒

9. ☒ **Duplicates** - Region II Limits (water RPD 50, soil RPD 100)

Were Field Duplicates submitted/analyzed? YES ☐ NO ☒

Were all results within Region II limits? (soil RPD<100, water RPD<50) YES ☐ NO ☐ NA ☒

10. ☒ **Laboratory Control Sample Results** - Region II (Water and soil 70-130%)

Were all results within Region II control limits? YES ☒ NO ☐

11. ☒ **Reporting Limits:** Were samples analyzed at a dilution? YES ☐ NO ☒

12. ☒ **Raw Data Review and Calculation Checks**

See attached

13. ☒ **Electronic Data Review and Edits**

Does the EDD match the Form Is? YES ☒ NO ☐

14. ☒ **Tables and TIC Review**

Table 1 (Samples and Analytical Methods)

Table 2 (Analytical Results)

Table 3 (Qualification Actions)

Were all tables produced and reviewed? YES ☒ NO ☐

Table 4 (TICs) Did lab report TICs? YES ☐ NO ☒



Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133
Sample Matrix: Soil

Service Request: R2107962
Date Received: 08/05/2021

CASE NARRATIVE

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

Sample Receipt:

Two soil samples were received for analysis at ALS Environmental on 08/05/2021. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Volatiles by GC/MS:

Method 8260C, 08/18/2021: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

A handwritten signature in black ink, appearing to read "J. Amato".

Approved by _____

Date 08/25/2021

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125
Sample Matrix: Soil

Service Request: R2107962
Date Collected: 08/04/21 12:00
Date Received: 08/05/21 16:10

Sample Name: 828133-MW14D014
Lab Code: R2107962-001

Units: ug/Kg
Basis: As Received

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	100 U	100	20	100	08/18/21 16:30	
1,1,2,2-Tetrachloroethane	100 U	100	44	100	08/18/21 16:30	
1,1,2-Trichloroethane	100 U	100	20	100	08/18/21 16:30	
1,1,2-Trichloro-1,2,2-trifluoroethane	100 U	100	20	100	08/18/21 16:30	
1,1-Dichloroethane (1,1-DCA)	100 U	100	20	100	08/18/21 16:30	
1,1-Dichloroethene (1,1-DCE)	100 U	100	29	100	08/18/21 16:30	
1,2,3-Trichlorobenzene	100 U	100	52	100	08/18/21 16:30	
1,2,4-Trichlorobenzene	100 U	100	42	100	08/18/21 16:30	
1,2,4-Trimethylbenzene	100 U	100	20	100	08/18/21 16:30	
1,2-Dibromo-3-chloropropane (DBCP)	200 U	200	75	100	08/18/21 16:30	
1,2-Dibromoethane	100 U	100	20	100	08/18/21 16:30	
1,2-Dichlorobenzene	100 U	100	20	100	08/18/21 16:30	
1,2-Dichloroethane	100 U	100	20	100	08/18/21 16:30	
1,2-Dichloropropane	100 U	100	20	100	08/18/21 16:30	
1,3,5-Trimethylbenzene	100 U	100	20	100	08/18/21 16:30	
1,3-Dichlorobenzene	100 U	100	20	100	08/18/21 16:30	
1,4-Dichlorobenzene	100 U	100	22	100	08/18/21 16:30	
1,4-Dioxane	4000 U	4000	2000	100	08/18/21 16:30	J BL1, reported at MRL
2-Butanone (MEK)	210 BJ	500	200	100	08/18/21 16:30	
2-Hexanone	500 U	500	36	100	08/18/21 16:30	
4-Isopropyltoluene	100 U	100	20	100	08/18/21 16:30	
4-Methyl-2-pentanone	500 U	500	23	100	08/18/21 16:30	
Acetone	2500 U	2500	1500	100	08/18/21 16:30	
Benzene	100 U	100	20	100	08/18/21 16:30	
Bromochloromethane	100 U	100	20	100	08/18/21 16:30	
Bromodichloromethane	100 U	100	20	100	08/18/21 16:30	
Bromoform	100 U	100	50	100	08/18/21 16:30	
Bromomethane	500 U	500	210	100	08/18/21 16:30	
Carbon Disulfide	100 U	100	29	100	08/18/21 16:30	
Carbon Tetrachloride	100 U	100	26	100	08/18/21 16:30	
Chlorobenzene	100 U	100	20	100	08/18/21 16:30	
Chloroethane	100 U	100	41	100	08/18/21 16:30	
Chloroform	100 U	100	20	100	08/18/21 16:30	
Chloromethane	200 U	200	140	100	08/18/21 16:30	
Cyclohexane	100 U	100	26	100	08/18/21 16:30	
Dibromochloromethane	100 U	100	20	100	08/18/21 16:30	
Dichlorodifluoromethane (CFC 12)	100 U	100	33	100	08/18/21 16:30	
Dichloromethane	500 U	500	280	100	08/18/21 16:30	
Ethylbenzene	100 U	100	100	100	08/18/21 16:30	
Isopropylbenzene (Cumene)	100 U	100	20	100	08/18/21 16:30	
Methyl Acetate	200 U	200	84	100	08/18/21 16:30	
Methyl tert-Butyl Ether	100 U	100	20	100	08/18/21 16:30	
Methyleyclohexane	100 U	100	31	100	08/18/21 16:30	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125
Sample Matrix: Soil

Service Request: R2107962
Date Collected: 08/04/21 12:00
Date Received: 08/05/21 16:10

Sample Name: 828133-MW14D021
Lab Code: R2107962-002

Units: ug/Kg
Basis: As Received

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	50 U	50	10	50	08/18/21 16:09	
1,1,2,2-Tetrachloroethane	50 U	50	22	50	08/18/21 16:09	
1,1,2-Trichloroethane	50 U	50	10	50	08/18/21 16:09	
1,1,2-Trichloro-1,2,2-trifluoroethane	50 U	50	10	50	08/18/21 16:09	
1,1-Dichloroethane (1,1-DCA)	50 U	50	10	50	08/18/21 16:09	
1,1-Dichloroethene (1,1-DCE)	50 U	50	15	50	08/18/21 16:09	
1,2,3-Trichlorobenzene	50 U	50	26	50	08/18/21 16:09	
1,2,4-Trichlorobenzene	50 U	50	21	50	08/18/21 16:09	
1,2,4-Trimethylbenzene	50 U	50	10	50	08/18/21 16:09	
1,2-Dibromo-3-chloropropane (DBCP)	100 U	100	38	50	08/18/21 16:09	
1,2-Dibromoethane	50 U	50	10	50	08/18/21 16:09	
1,2-Dichlorobenzene	50 U	50	10	50	08/18/21 16:09	
1,2-Dichloroethane	50 U	50	10	50	08/18/21 16:09	
1,2-Dichloropropane	50 U	50	10	50	08/18/21 16:09	
1,3,5-Trimethylbenzene	50 U	50	10	50	08/18/21 16:09	
1,3-Dichlorobenzene	50 U	50	10	50	08/18/21 16:09	
1,4-Dichlorobenzene	50 U	50	11	50	08/18/21 16:09	
1,4-Dioxane	2000 U	2000	1000	50	08/18/21 16:09	
2-Butanone (MEK)	170 BJ	250	100	50	08/18/21 16:09	J BL1. reported at MRL
2-Hexanone	250 U	250	18	50	08/18/21 16:09	
4-Isopropyltoluene	50 U	50	10	50	08/18/21 16:09	
4-Methyl-2-pentanone	250 U	250	12	50	08/18/21 16:09	
Acetone	1300 U	1300	750	50	08/18/21 16:09	
Benzene	50 U	50	10	50	08/18/21 16:09	
Bromochloromethane	50 U	50	10	50	08/18/21 16:09	
Bromodichloromethane	50 U	50	10	50	08/18/21 16:09	
Bromoform	50 U	50	25	50	08/18/21 16:09	
Bromomethane	250 U	250	110	50	08/18/21 16:09	
Carbon Disulfide	50 U	50	15	50	08/18/21 16:09	
Carbon Tetrachloride	50 U	50	13	50	08/18/21 16:09	
Chlorobenzene	50 U	50	10	50	08/18/21 16:09	
Chloroethane	50 U	50	21	50	08/18/21 16:09	
Chloroform	50 U	50	10	50	08/18/21 16:09	
Chloromethane	100 U	100	70	50	08/18/21 16:09	
Cyclohexane	50 U	50	13	50	08/18/21 16:09	
Dibromochloromethane	50 U	50	10	50	08/18/21 16:09	
Dichlorodifluoromethane (CFC 12)	50 U	50	17	50	08/18/21 16:09	
Dichloromethane	250 U	250	140	50	08/18/21 16:09	
Ethylbenzene	50 U	50	50	50	08/18/21 16:09	
Isopropylbenzene (Cumene)	50 U	50	10	50	08/18/21 16:09	
Methyl Acetate	100 U	100	42	50	08/18/21 16:09	
Methyl tert-Butyl Ether	50 U	50	10	50	08/18/21 16:09	
Methyleyclohexane	50 U	50	16	50	08/18/21 16:09	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125
Sample Matrix: Soil

Service Request: R2107962
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2110062-04

Units: ug/Kg
Basis: As Received

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	50 U	50	10	50	08/18/21 11:23	
1,1,2,2-Tetrachloroethane	50 U	50	22	50	08/18/21 11:23	
1,1,2-Trichloroethane	50 U	50	10	50	08/18/21 11:23	
1,1,2-Trichloro-1,2,2-trifluoroethane	50 U	50	10	50	08/18/21 11:23	
1,1-Dichloroethane (1,1-DCA)	50 U	50	10	50	08/18/21 11:23	
1,1-Dichloroethene (1,1-DCE)	50 U	50	15	50	08/18/21 11:23	
1,2,3-Trichlorobenzene	50 U	50	26	50	08/18/21 11:23	
1,2,4-Trichlorobenzene	50 U	50	21	50	08/18/21 11:23	
1,2,4-Trimethylbenzene	50 U	50	10	50	08/18/21 11:23	
1,2-Dibromo-3-chloropropane (DBCP)	100 U	100	38	50	08/18/21 11:23	
1,2-Dibromoethane	50 U	50	10	50	08/18/21 11:23	
1,2-Dichlorobenzene	50 U	50	10	50	08/18/21 11:23	
1,2-Dichloroethane	50 U	50	10	50	08/18/21 11:23	
1,2-Dichloropropane	50 U	50	10	50	08/18/21 11:23	
1,3,5-Trimethylbenzene	50 U	50	10	50	08/18/21 11:23	
1,3-Dichlorobenzene	50 U	50	10	50	08/18/21 11:23	
1,4-Dichlorobenzene	50 U	50	11	50	08/18/21 11:23	
1,4-Dioxane	2000 U	2000	1000	50	08/18/21 11:23	
2-Butanone (MEK)	190 J	250	100	50	08/18/21 11:23	
2-Hexanone	250 U	250	18	50	08/18/21 11:23	
4-Isopropyltoluene	50 U	50	10	50	08/18/21 11:23	
4-Methyl-2-pentanone	250 U	250	12	50	08/18/21 11:23	
Acetone	1300 U	1300	750	50	08/18/21 11:23	
Benzene	50 U	50	10	50	08/18/21 11:23	
Bromochloromethane	50 U	50	10	50	08/18/21 11:23	
Bromodichloromethane	50 U	50	10	50	08/18/21 11:23	
Bromoform	50 U	50	25	50	08/18/21 11:23	
Bromomethane	250 U	250	110	50	08/18/21 11:23	
Carbon Disulfide	50 U	50	15	50	08/18/21 11:23	
Carbon Tetrachloride	50 U	50	13	50	08/18/21 11:23	
Chlorobenzene	50 U	50	10	50	08/18/21 11:23	
Chloroethane	50 U	50	21	50	08/18/21 11:23	
Chloroform	50 U	50	10	50	08/18/21 11:23	
Chloromethane	100 U	100	70	50	08/18/21 11:23	
Cyclohexane	50 U	50	13	50	08/18/21 11:23	
Dibromochloromethane	50 U	50	10	50	08/18/21 11:23	
Dichlorodifluoromethane (CFC 12)	50 U	50	17	50	08/18/21 11:23	
Dichloromethane	250 U	250	140	50	08/18/21 11:23	
Ethylbenzene	50 U	50	50	50	08/18/21 11:23	
Isopropylbenzene (Cumene)	50 U	50	10	50	08/18/21 11:23	
Methyl Acetate	77 J	100	42	50	08/18/21 11:23	ND No
Methyl tert-Butyl Ether	50 U	50	10	50	08/18/21 11:23	Qual
Methyleyclohexane	50 U	50	16	50	08/18/21 11:23	

Data Path : I:\ACQUDATA\msvoa10\data\081821\
 Data File : T8532.D
 Acq On : 18 Aug 2021 4:30 pm
 Operator : F.NAEGLER
 Sample : R2107962-001|100.0
 Misc : WOOD 9396 T4
 ALS Vial : 18 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 19 13:58:52 2021
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W081121.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Thu Aug 12 09:48:08 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.397	168	316179	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.494	114	481186	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.811	117	440439	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.859	152	228662	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.251	113	128304	43.60	ug/L	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery	=	87.20%	
46) surr1,1,2-dichloroetha...	5.793	65	175374	48.24	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	96.48%	
64) SURR3,Toluene-d8	8.317	98	530944	46.67	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	93.34%	
69) SURR2,BFB	10.884	95	192243	45.70	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	91.40%	
Target Compounds						
5) Bromomethane	1.581	94	876m	Below Cal		
15) Acetone	2.349	43	1969	Below Cal	#	60
21) Methyl Acetate	2.654	43	1733	0.42	ug/L	88
22) Methylene Chloride	2.733	84	1420	0.42	ug/L	# 61
34) 2-Butanone	4.446	43	5817	2.09	ug/L	91
38) Tetrahydrofuran	4.891	42	313	Below Cal	#	41
42) Cyclohexane	5.330	41	415	Below Cal		83
51) n-Heptane	6.372	43	4344	1.15	ug/L	# 81
53) Trichloroethene	6.823	130	4987	1.54	ug/L	# 81
54) Methylcyclohexane	7.061	55	946	0.26	ug/L	# 44
71) Tetrachloroethene	8.982	164	249541	107.25	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Calculation Checks for NYSDEC DUSR

Site: Ace Cleaners

SDG = R2107962

Initial Calibration Check

Instrument ID = MSVOA10

Compound Name = **Trichloroethene**

rt= 4.45 min

Internal standard Name = Fluorobenzene

Level	Concentration (ug/L)	Compound Area	Internal Std Conc (ug/L)	Internal Std Area	RF
1	0.5	1542	50	403713	0.3819545
2	1	2586	50	407515	0.3172889
3	2	5940	50	396072	0.3749318
4	5	13449	50	393819	0.3415021
5	20	51764	50	389069	0.3326145
6	50	129904	50	420501	0.3089267
7	100	291588	50	439004	0.3321018
8	150	422262	50	441445	0.3188483
9	200	672441	50	513730	0.3272346
				Avg =	0.337267
				%RSD =	8.18%

CCV

Continuing Calibration Check

Date = 8/18/2021

Time = 9:36

Concentration (ug/L)	Compound Area	Internal Std Conc (ug/L)	Internal Std Area	RF
50	147864	50	455136	0.3248787
				% D =
				-3.67%

LCS

LCS= LCS-MED

Date = 8/18/2021

Time = 10:10

Compound Area	Internal Std Conc (ug/L)	Internal Std Area	RF
52978	50	429224	0.337267035
Concentration (ug/L)=			18.30

Instrument concentration OKAY

Sample Calculation Check

Field Sample ID = 828133-MW14D014

Lab Sample ID = R2107962-001

Date = 8/18/2021

Time = 16:30

Compound Area	Internal Std Conc (ug/L)	Internal Std Area	RF
4987	50	481186	0.3373
Concentration (ug/L) =			1.54
Sample Wt (g) =			50.00
Dilution Factor =			1.00
Methanol Extraction (mL) =			50.00
Soil Aliquot (uL) =			500.00
Soil Extract Volume (mL) =			50.00
% Solid (decimal) =			100.00
Final Concentration (ug/Kg dry) =			154

Instrument concentration OKAY

Final concentration OKAY

**DATA USABILITY SUMMARY REPORT
OCTOBER AND DECEMBER 2021, AND APRIL 2022 GROUNDWATER SAMPLING
ACE CLEANERS SITE
BROCKPORT, NEW YORK**

1.0 INTRODUCTION

Groundwater samples were collected at the Ace Dry Cleaners Site in October and December 2021, and April 2022 and were submitted to ALS Environmental Laboratories located in Rochester, New York for analysis. Samples included in this review were analyzed by the following method:

- Volatile Organic Compounds (VOCs) by Method 8260C

All results were reported in the following sample delivery groups (SDGs):

- R2110341
- R2112807
- R2112847
- R2202959
- R2202960

A Data Usability Summary Report (DUSR) review was completed based on the New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation guidance (NYSDEC, 2010). Sample event information included in this DUSR is presented in the following Tables:

- Table 1 – Summary of Samples and Analytical Methods
- Table 2 – Summary of Analytical Results
- Table 3 – Summary of Qualification Actions

A summary of table notes applicable to Tables 1, 2, and 3 is presented just before Table 1.

Laboratory deliverables included:

- Category B deliverables as defined in the NYSDEC Analytical Services Protocols (NYSDEC, 2005).

The DUSR review included the following evaluations. A table of the project control limits is presented in Attachment A. Applicable laboratory quality control (QC) summary forms are included in Attachment B to document QC outliers associated with qualification actions.

- Lab Report Narrative Review
- Data Package Completeness and COC Records (Table 1 verification)
- Sample Preservation and Holding Times
- Instrument Calibration (report narrative/lab-qualifier evaluation)
- QC Blanks
- Laboratory Control Samples (LCS)
- Matrix Spike/Matrix Spike Duplicates (MS/MSD)
- Surrogate Spikes (if applicable)

- Field Duplicates
- Target Analyte Identification and Quantitation
- Raw Data (chromatograms), Calculation Checks and Transcription Verifications
- Reporting Limits
- Electronic Data Qualification and Verification

Data qualification actions are applied when necessary based on general procedures in USEPA validation guidelines (USEPA, 2014) and the judgment of the project chemist. The following laboratory or data review qualifiers are used in the final data presentation:

U = target analyte is not detected above the reported detection limit or was qualified not detected

J = concentration is estimated

J+ = concentration is estimated with potential high bias

UJ = target analyte is not detected and value is estimated

Results are interpreted to be usable as reported by the laboratory or as qualified in the following sections.

2.0 POTENTIAL DATA LIMITATIONS

R2202960 – Sample 828133-MW109007 was incorrectly logged in by the lab as 828133-MW109002. The sample ID was corrected to 828133-MW109007 in the database.

R2202960 – Only one trip blank was recorded on the COC; however, the lab analyzed two trip blanks. Both trip blanks had the same sample date and time and had the same results. The PM requested that only the original trip blank requested on the COC is reported.

R2202959, R2202960 – Results for a subset of samples were qualified as estimated (J/UJ) based on high receiving temperatures (9.3 - 14.4°C). Qualified results are included in Table 3 with reason code SP.

R2110341, R2202960 – Results for sample 828133-GW12008 were qualified as estimated (J/UJ) due to significant headspace. Qualified results are included in Table 3 with reason code SP.

R2110341 – Results for 2-butanone, acetone, cyclohexane, and methyl acetate in all samples were qualified as estimated (UJ) based on high percent differences in the associated CCV. Qualified results are included in Table 3 with reason code CCV%D.

R2112807 – Results for 1,4-dioxane, 2-butanone, 2-hexanone, 4-methyl-2-pentanone, acetone, and methyl acetate in samples 828133-MW113-120721 and 828133-GW14-120721 were qualified as estimated (UJ) based on high percent differences in the associated CCV. Qualified results are included in Table 3 with reason code CCV%D.

R2202959 – Results for bromomethane in all samples were qualified as estimated (UJ) based on high percent differences in the associated CCV. Qualified results are included in Table 3 with reason code CCV%D.

R2112807 – The result for chloromethane in sample 828133-MW14D-120721 was qualified as estimated (J+) with potential high bias due to contamination in the trip blank. The qualified result is included in Table 3 with reason code BL2.

R2202959 – The results for chloromethane in samples 828133-MW114010, 828133-GW014012, 828133-MW113011D, 828133-MW113011 were qualified as not detected (U) due to contamination in the associated method blanks. Qualified results are included in Table 3 with reason code BL1.

R2202959 – The results for methyl acetate in samples 828133-MW114010 and 828133-MW14D020 were qualified as not detected (U) due to contamination in the associated method blank and trip blank. Qualified results are included in Table 3 with reason codes BL1 and BL2.

R2110341 – Results for 2-butanone and acetone were qualified as estimated (UJ) in associated samples based on low recoveries in the LCS. Qualified results are included in Table 3 with reason code LCSL.

3.0 ADDITIONAL QC EXCEEDANCES AND OBSERVATIONS

A subset of samples required dilution due to high concentrations of target compounds. Elevated reporting limits are reported as indicated in Table 2.

Reference:

NYSDEC, 2005. "Analytical Services Protocols"; June 2005.

NYSDEC, 2010. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; DER-10; Division of Environmental Remediation; May 2010.

USEPA, 2014. "Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B"; USEPA Region II; HW-24; Revision 4; September 2014.

Data Validator: Gabrielle Davis



June 3, 2022

Reviewed by: Julie Ricardi



June 6, 2022

Standard Table Notes:

Sample Type (QC Code)

FS – field sample
FD – field duplicate
TB – trip blank
EB – equipment blank
FB – field blank

Matrix

GW – ground water
BW – blank water
TW – tap water
SV – soil vapor
SED - sediment

Units

mg/L – milligrams per liter
ng/L – nanograms per liter
µg/L – micrograms per liter
mg/kg – milligrams per kilogram
µg/kg – micrograms per kilogram
µg/m³ – micrograms per cubic meter

Qualifiers

U – not detected above quantitation limit
J – estimated quantity
J+ - estimated quantity, biased high
J- - estimated quantity, biased low
R – data unusable

Fraction

T – total
D – dissolved
N – normal

Qualification Reason Codes

BL1 – method blank qualifier
BL2 – field or trip blank qualifier
CCV – continuing calibration verification recovery outside limits
CCV%D – continuing calibration verification percent difference exceeds goal
CCVRRF – continuing calibration relative response factor low
CI – chromatographic interference present
DCPD – dual column percent difference exceeds limit
E – result exceeds calibration range
FD – field duplicate precision goal exceeded
FP – false positive interference
HT – holding time for prep or analysis exceeded
HTG – holding time for prep or analysis grossly exceeded
ICV – initial calibration verification recovery outside limit
ICVRRF – initial calibration verification relative response factor low
ICVRS D – initial calibration verification % relative standard deviation exceeds goal
ISH – internal standard response greater than limit
ISL – internal standard response less than limit
LCSH – laboratory control sample recovery high
LCSL – laboratory control sample recovery low
LCSRPD – laboratory control sample/duplicate relative % difference precision goal exceeded
LD – lab duplicate precision goal exceeded
MSH – matrix spike and/or MS duplicate recovery high
MSL – matrix spike and/or MS duplicate recovery low
MSRPD – matrix spike/duplicate relative % difference precision goal exceeded
N – analyte identification is not certain
PEM – performance evaluation mixture exceeds limit
PM – sample percent moisture exceeds EPA guideline
SD – serial dilution result exceeds percent difference limit
SP – sample preservation/collection does not meet method requirement
SSH – surrogate recovery high
SSL – surrogate recovery low
TD – dissolved concentration exceeds total

TABLE 1 - SUMMARY OF SAMPLES AND ANALYTICAL METHODS
DATA USABILITY SUMMARY REPORT
OCTOBER AND DECEMBER 2021, APRIL 2022 SAMPLING EVENTS
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Lab	SDG	Location	Field Sample ID	Media	Analysis Method		SW8260C VOCs N Count	SW6010C Metals T Count	9034 Inorganics N Count	9056A Inorganics N Count	RSK175 Dis Gases N Count	SM 2320 B- 1997(2011) Inorganics N Count	SM 4500-S2-F- 2000(2011) Inorganics N Count	SM 5310 B-2014 TOC N Count	SM350 C- 2000(2011) Inorganics N Count
					Sample Date	Method Class Fraction QC Code									
R2110341	QC		828133-TB-100421	BW	10/4/2021	TB	60								
R2110341	GW-14		828133-GW14-100421	GW	10/4/2021	FS	60	2		4	3	1	1		1
R2110341	MW-113		828133-MW113-100421	GW	10/4/2021	FS	60	2		4	3	1	1		1
R2110341	MW-114		828133-MW114-100421	GW	10/4/2021	FS	60	2	1	3	3	1			1
R2110341	MW-114		828133-MW114-100421-Dup	GW	10/4/2021	FD	60								
R2110341	MW-14D		828133-MW14D-100421	GW	10/4/2021	FS	60	2		3	3	1	1		1
R2112807	QC		Trip Blank	BW	12/7/2021	TB	60								
R2112807	GW-14		828133-GW14-120721	GW	12/7/2021	FS	60	2		3	3	1	1		1
R2112807	MW-113		828133-MW113-120721	GW	12/7/2021	FS	60	2		3	3	1	1		1
R2112807	MW-114		828133-MW114-120721	GW	12/7/2021	FS	60	2		3	3	1	1		1
R2112807	MW-114		828133-MW114-120721-Dup	GW	12/7/2021	FD	60								
R2112807	MW-14D		828133-MW14D-120721	GW	12/7/2021	FS	60	2		3	3	1	1		1
R2112847	SUMP		828133-SUMP011	GW	12/8/2021	FS	60								
R2202959	QC		Trip Blank	BW	4/5/2022	TB	60								
R2202959	GW-14		828133-GW014012	GW	4/5/2022	FS	60	2		3	3	1	1	1	
R2202959	MW-113		828133-MW113011	GW	4/5/2022	FS	60	2		3	3	1	1	1	
R2202959	MW-113		828133-MW113011D	GW	4/5/2022	FD	60								
R2202959	MW-114		828133-MW114010	GW	4/5/2022	FS	60	2		3	3	1	1	1	
R2202959	MW-14D		828133-MW14D020	GW	4/5/2022	FS	60	2		3	3	1	1	1	
R2202960	QC		Trip Blank	BW	4/5/2022	TB	60								
R2202960	GW-12		828133-GW12008	GW	4/5/2022	FS	60								
R2202960	GW-2		828133-GW2012	GW	4/6/2022	FS	60								
R2202960	GW-8		828133-GW8008	GW	4/5/2022	FS	60								
R2202960	MW-100		828133-MW100008	GW	4/5/2022	FS	60								
R2202960	MW-100		828133-MW100008D	GW	4/5/2022	FD	60								
R2202960	MW-100D		828133-MW100D018	GW	4/5/2022	FS	60								
R2202960	MW-101		828133-MW101008	GW	4/5/2022	FS	60								
R2202960	MW-101D		828133-MW101D015	GW	4/5/2022	FS	60								
R2202960	MW-102		828133-MW102008	GW	4/6/2022	FS	60								
R2202960	MW-103		828133-MW103007	GW	4/5/2022	FS	60								
R2202960	MW-104		828133-MW104005	GW	4/5/2022	FS	60								
R2202960	MW-105		828133-MW105007	GW	4/5/2022	FS	60								
R2202960	MW-106		828133-MW106007	GW	4/5/2022	FS	60								
R2202960	MW-107		828133-MW107007	GW	4/6/2022	FS	60								
R2202960	MW-108		828133-MW108008	GW	4/5/2022	FS	60								

TABLE 1 - SUMMARY OF SAMPLES AND ANALYTICAL METHODS
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Lab	SDG	Location	Field Sample ID	Media	Sample Date	Analysis Method Method Class Fraction QC Code	SW8260C	SW6010C	9034	9056A	RSK175	SM 2320 B- 1997(2011)	SM 4500-S2-F- 2000(2011)	SM 5310 B-2014	SM350 C- 2000(2011)
							VOCs N Count	Metals T Count	Inorganics N Count	Inorganics N Count	Dis Gases N Count	Inorganics N Count	Inorganics N Count	TOC N Count	Inorganics N Count
R2202960	MW-109	828133-MW109007	GW	4/5/2022	FS		60								
R2202960	MW-110	828133-MW110010	GW	4/6/2022	FS		60								
R2202960	MW-111	828133-MW111007	GW	4/6/2022	FS		60								
R2202960	MW-112	828133-MW112007	GW	4/6/2022	FS		60								
R2202960	MW-12D	828133-MW12D015	GW	4/5/2022	FS		60								
R2202960	MW-2D	828133-MW2D020	GW	4/6/2022	FS		60								

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
OCTOBER AND DECEMBER 2021, APRIL 2022 SAMPLING EVENTS
ACE CLEANERS
BROCKPORT, NEW YORK

					Location Lab SDG Sample Date Field Sample ID Qc Code		GW-12 R2202960 4/5/2022 828133-GW12008 FS		GW-14 R2110341 10/4/2021 828133-GW14-100421 FS		GW-14 R2112807 12/7/2021 828133-GW14-120721 FS		GW-14 R2202959 4/5/2022 828133-GW014012 FS		GW-2 R2202960 4/6/2022 828133-GW2012 FS		GW-8 R2202960 4/5/2022 828133-GW8008 FS	
Method Class	Analysis Method	Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	SW8260C	N	1,1,1-Trichloroethane	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	1,1,2,2-Tetrachloroethane	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	1,1,2-Trichloroethane	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	1,1-Dichloroethane	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	1,1-Dichloroethene	ug/l	1	UJ	8.7	J	1.1	J	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	1,2,3-Trichlorobenzene	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	1,2,4-Trichlorobenzene	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	1,2,4-Trimethylbenzene	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	1,2-Dibromo-3-chloropropane	ug/l	2	UJ	20	U	10	U	2	UJ	2	U	2	U	2	UJ
VOCs	SW8260C	N	1,2-Dibromoethane	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	1,2-Dichlorobenzene	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	1,2-Dichloroethane	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	1,2-Dichloropropane	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	1,3,5-Trimethylbenzene	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	1,3-Dichlorobenzene	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	1,4-Dichlorobenzene	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	1,4-Dioxane	ug/l	40	UJ	400	U	200	UJ	40	UJ	40	U	40	U	40	UJ
VOCs	SW8260C	N	2-Butanone	ug/l	5	UJ	50	UJ	25	UJ	5	UJ	5	U	5	U	5	UJ
VOCs	SW8260C	N	2-Hexanone	ug/l	5	UJ	50	U	25	UJ	5	UJ	5	U	5	U	5	UJ
VOCs	SW8260C	N	4-iso-Propyltoluene	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	4-Methyl-2-pentanone	ug/l	5	UJ	50	U	25	UJ	5	UJ	5	U	5	U	5	UJ
VOCs	SW8260C	N	Acetic acid, methyl ester	ug/l	2	UJ	20	UJ	10	UJ	2	UJ	2	U	2	U	2	UJ
VOCs	SW8260C	N	Acetone	ug/l	5	UJ	50	UJ	25	UJ	5	UJ	5	U	5	U	5	UJ
VOCs	SW8260C	N	Benzene	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	Bromochloromethane	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	Bromodichloromethane	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	Bromoform	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	Bromomethane	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	Carbon disulfide	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	Carbon tetrachloride	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	Chlorobenzene	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	Chloroethane	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	Chloroform	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	Chloromethane	ug/l	1	UJ	3.3	J	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	cis-1,2-Dichloroethene	ug/l	0.43	J	1,400		460		120	J	0.53	J	1	UJ	1	UJ
VOCs	SW8260C	N	cis-1,3-Dichloropropene	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	Cyclohexane	ug/l	1	UJ	10	UJ	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	Dibromochloromethane	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	Dichlorodifluoromethane	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	Ethylbenzene	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	Isopropylbenzene	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	Methyl cyclohexane	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ
VOCs	SW8260C	N	Methyl Tertbutyl Ether	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	U	1	UJ

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
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				Location Lab SDG Sample Date Field Sample ID Qc Code	GW-12 R2202960 4/5/2022 828133-GW12008 FS		GW-14 R2110341 10/4/2021 828133-GW14-100421 FS		GW-14 R2112807 12/7/2021 828133-GW14-120721 FS		GW-14 R2202959 4/5/2022 828133-GW014012 FS		GW-2 R2202960 4/6/2022 828133-GW2012 FS		GW-8 R2202960 4/5/2022 828133-GW8008 FS	
Method Class	Analysis Method	Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	SW8260C	N	Methylene chloride	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	n-Butylbenzene	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Naphthalene	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Propylbenzene	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	sec-Butylbenzene	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Styrene	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	tert-Butylbenzene	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Tetrachloroethene	ug/l	0.33	J	720		9.9		9	J	12		1	UJ
VOCs	SW8260C	N	Toluene	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	trans-1,2-Dichloroethene	ug/l	1	UJ	10	J	3.9	J	1.6	J	1	U	1	UJ
VOCs	SW8260C	N	trans-1,3-Dichloropropene	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Trichloroethene	ug/l	1	UJ	99		57		7.3	J	1		1	UJ
VOCs	SW8260C	N	Trichlorofluoromethane	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Vinyl chloride	ug/l	1	UJ	12		2.5	J	0.82	J	1	U	1	UJ
VOCs	SW8260C	N	Xylene, o	ug/l	1	UJ	10	U	5	U	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Xylenes (m&p)	ug/l	2	UJ	20	U	10	U	2	UJ	2	U	2	UJ
Metals	SW6010C	T	Iron	ug/l			4,530		1,720		587					
Metals	SW6010C	T	Manganese	ug/l			1,540		1,420		727					
Dis Gases	RSK175	N	Ethane	ug/l			0.33	J	1	U	1	U				
Dis Gases	RSK175	N	Ethene	ug/l			1	U	1	U	1	U				
Dis Gases	RSK175	N	Methane	ug/l			14		8.4		3					
Inorganics	9034	N	Sulfide	mg/l												
Inorganics	SM 4500-S2-F-2000(2011)	N	Sulfide	mg/l			1.1	U	0.97	U	1	U				
Inorganics	9056A	N	Chloride	mg/l			374		528		136					
Inorganics	9056A	N	Nitrate as N	mg/l			1	U	1	U	1	U				
Inorganics	9056A	N	Sulfate	mg/l			64.3		316		65.7					
Inorganics	SM 2320 B-1997(2011)	N	Total Alkalinity, as CaCO3	mg/l			444		817		434					
Inorganics	SM350 C-2000(2011)	N	Total Organic Carbon	mg/l			8.7		25.6							
TOC	SM 5310 B-2014	N	Total Organic Carbon	mg/l							10.2					

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
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					Location Lab SDG Sample Date Field Sample ID Qc Code	MW-100 R2202960 4/5/2022 828133-MW100008 FS	MW-100 R2202960 4/5/2022 828133-MW100008D FD	MW-100D R2202960 4/5/2022 828133-MW100D018 FS	MW-101 R2202960 4/5/2022 828133-MW101008 FS	MW-101D R2202960 4/5/2022 828133-MW101D015 FS	MW-102 R2202960 4/6/2022 828133-MW102008 FS			
Method Class	Analysis Method	Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier		
VOCs	SW8260C	N	1,1,1-Trichloroethane	ug/l	250	UJ	250	UJ	100	UJ	1	UJ		
VOCs	SW8260C	N	1,1,2,2-Tetrachloroethane	ug/l	250	UJ	250	UJ	100	UJ	1	UJ		
VOCs	SW8260C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/l	250	UJ	250	UJ	100	UJ	1	UJ		
VOCs	SW8260C	N	1,1,2-Trichloroethane	ug/l	250	UJ	250	UJ	100	UJ	1	UJ		
VOCs	SW8260C	N	1,1-Dichloroethane	ug/l	250	UJ	250	UJ	100	UJ	1	UJ		
VOCs	SW8260C	N	1,1-Dichloroethene	ug/l	250	UJ	250	UJ	100	UJ	1	UJ		
VOCs	SW8260C	N	1,2,3-Trichlorobenzene	ug/l	250	UJ	250	UJ	100	UJ	1	UJ		
VOCs	SW8260C	N	1,2,4-Trichlorobenzene	ug/l	250	UJ	250	UJ	100	UJ	1	UJ		
VOCs	SW8260C	N	1,2,4-Trimethylbenzene	ug/l	250	UJ	250	UJ	100	UJ	1	UJ		
VOCs	SW8260C	N	1,2-Dibromo-3-chloropropane	ug/l	500	UJ	500	UJ	200	UJ	2	UJ		
VOCs	SW8260C	N	1,2-Dibromoethane	ug/l	250	UJ	250	UJ	100	UJ	1	UJ		
VOCs	SW8260C	N	1,2-Dichlorobenzene	ug/l	250	UJ	250	UJ	100	UJ	1	UJ		
VOCs	SW8260C	N	1,2-Dichloroethane	ug/l	250	UJ	250	UJ	100	UJ	1	UJ		
VOCs	SW8260C	N	1,2-Dichloropropane	ug/l	250	UJ	250	UJ	100	UJ	1	UJ		
VOCs	SW8260C	N	1,3,5-Trimethylbenzene	ug/l	250	UJ	250	UJ	100	UJ	1	UJ		
VOCs	SW8260C	N	1,3-Dichlorobenzene	ug/l	250	UJ	250	UJ	100	UJ	1	UJ		
VOCs	SW8260C	N	1,4-Dichlorobenzene	ug/l	250	UJ	250	UJ	100	UJ	1	UJ		
VOCs	SW8260C	N	1,4-Dioxane	ug/l	10,000	UJ	10,000	UJ	4,000	UJ	40	UJ		
VOCs	SW8260C	N	2-Butanone	ug/l	1,300	UJ	1,300	UJ	500	0.86 J	5	UJ		
VOCs	SW8260C	N	2-Hexanone	ug/l	1,300	UJ	1,300	UJ	500	5	UJ	5	UJ	
VOCs	SW8260C	N	4-iso-Propyltoluene	ug/l	250	UJ	250	UJ	100	1	UJ	1	UJ	
VOCs	SW8260C	N	4-Methyl-2-pentanone	ug/l	1,300	UJ	1,300	UJ	500	5	UJ	5	UJ	
VOCs	SW8260C	N	Acetic acid, methyl ester	ug/l	500	UJ	500	UJ	200	2	UJ	2	UJ	
VOCs	SW8260C	N	Acetone	ug/l	1,300	UJ	1,300	UJ	500	6.1 J	5	UJ	5	UJ
VOCs	SW8260C	N	Benzene	ug/l	250	UJ	250	UJ	100	1	UJ	1	UJ	
VOCs	SW8260C	N	Bromochloromethane	ug/l	250	UJ	250	UJ	100	1	UJ	1	UJ	
VOCs	SW8260C	N	Bromodichloromethane	ug/l	250	UJ	250	UJ	100	1	UJ	1	UJ	
VOCs	SW8260C	N	Bromoform	ug/l	250	UJ	250	UJ	100	1	UJ	1	UJ	
VOCs	SW8260C	N	Bromomethane	ug/l	250	UJ	250	UJ	100	1	UJ	1	UJ	
VOCs	SW8260C	N	Carbon disulfide	ug/l	250	UJ	250	UJ	100	9 J	1	UJ	1	UJ
VOCs	SW8260C	N	Carbon tetrachloride	ug/l	250	UJ	250	UJ	100	1	UJ	1	UJ	
VOCs	SW8260C	N	Chlorobenzene	ug/l	250	UJ	250	UJ	100	1	UJ	1	UJ	
VOCs	SW8260C	N	Chloroethane	ug/l	250	UJ	250	UJ	100	1	UJ	1	UJ	
VOCs	SW8260C	N	Chloroform	ug/l	260	J	250	J	100	1	UJ	1	UJ	
VOCs	SW8260C	N	Chloromethane	ug/l	250	UJ	250	UJ	100	1	UJ	1	UJ	
VOCs	SW8260C	N	cis-1,2-Dichloroethene	ug/l	2,300	J	1,800	J	330	4.3 J	2	J	1	UJ
VOCs	SW8260C	N	cis-1,3-Dichloropropene	ug/l	250	UJ	250	UJ	100	1	UJ	1	UJ	
VOCs	SW8260C	N	Cyclohexane	ug/l	250	UJ	250	UJ	100	1	UJ	1	UJ	
VOCs	SW8260C	N	Dibromochloromethane	ug/l	250	UJ	250	UJ	100	1	UJ	1	UJ	
VOCs	SW8260C	N	Dichlorodifluoromethane	ug/l	250	UJ	250	UJ	100	1	UJ	1	UJ	
VOCs	SW8260C	N	Ethylbenzene	ug/l	250	UJ	250	UJ	100	1	UJ	1	UJ	
VOCs	SW8260C	N	Isopropylbenzene	ug/l	250	UJ	250	UJ	100	1	UJ	1	UJ	
VOCs	SW8260C	N	Methyl cyclohexane	ug/l	250	UJ	250	UJ	100	1	UJ	1	UJ	
VOCs	SW8260C	N	Methyl Tertbutyl Ether	ug/l	250	UJ	250	UJ	100	1	UJ	1	UJ	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
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					Location Lab SDG Sample Date Field Sample ID Qc Code		MW-100 R2202960 4/5/2022 828133-MW100008 FS		MW-100 R2202960 4/5/2022 828133-MW100008D FD		MW-100D R2202960 4/5/2022 828133-MW100D018 FS		MW-101 R2202960 4/5/2022 828133-MW101008 FS		MW-101D R2202960 4/5/2022 828133-MW101D015 FS		MW-102 R2202960 4/6/2022 828133-MW102008 FS	
Method Class	Analysis Method	Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	SW8260C	N	Methylene chloride	ug/l	250	UJ	250	UJ	100	UJ	1	UJ	1	UJ	1	UJ	1	U
VOCs	SW8260C	N	n-Butylbenzene	ug/l	250	UJ	250	UJ	100	UJ	1	UJ	1	UJ	1	UJ	1	U
VOCs	SW8260C	N	Naphthalene	ug/l	250	UJ	250	UJ	100	UJ	1	UJ	1	UJ	1	UJ	1	U
VOCs	SW8260C	N	Propylbenzene	ug/l	250	UJ	250	UJ	100	UJ	1	UJ	1	UJ	1	UJ	1	U
VOCs	SW8260C	N	sec-Butylbenzene	ug/l	250	UJ	250	UJ	100	UJ	1	UJ	1	UJ	1	UJ	1	U
VOCs	SW8260C	N	Styrene	ug/l	250	UJ	250	UJ	100	UJ	1	UJ	1	UJ	1	UJ	1	U
VOCs	SW8260C	N	tert-Butylbenzene	ug/l	250	UJ	250	UJ	100	UJ	1	UJ	1	UJ	1	UJ	1	U
VOCs	SW8260C	N	Tetrachloroethene	ug/l	40,000	J	43,000	J	9,500	J	1	UJ	84	J	1	UJ	1	U
VOCs	SW8260C	N	Toluene	ug/l	250	UJ	250	UJ	100	UJ	1	UJ	1	UJ	1	UJ	1	U
VOCs	SW8260C	N	trans-1,2-Dichloroethene	ug/l	250	UJ	250	UJ	100	UJ	1	UJ	1	UJ	1	UJ	1	U
VOCs	SW8260C	N	trans-1,3-Dichloropropene	ug/l	250	UJ	250	UJ	100	UJ	1	UJ	1	UJ	1	UJ	1	U
VOCs	SW8260C	N	Trichloroethene	ug/l	1,500	J	1,400	J	1,400	J	0.73	J	3.4	J	1	UJ	1	U
VOCs	SW8260C	N	Trichlorofluoromethane	ug/l	250	UJ	250	UJ	100	UJ	1	UJ	1	UJ	1	UJ	1	U
VOCs	SW8260C	N	Vinyl chloride	ug/l	210	J	200	J	100	UJ	1	UJ	0.2	J	1	UJ	1	U
VOCs	SW8260C	N	Xylene, o	ug/l	250	UJ	250	UJ	100	UJ	1	UJ	1	UJ	1	UJ	1	U
VOCs	SW8260C	N	Xylenes (m&p)	ug/l	500	UJ	500	UJ	200	UJ	2	UJ	2	UJ	2	UJ	2	U
Metals	SW6010C	T	Iron	ug/l														
Metals	SW6010C	T	Manganese	ug/l														
Dis Gases	RSK175	N	Ethane	ug/l														
Dis Gases	RSK175	N	Ethene	ug/l														
Dis Gases	RSK175	N	Methane	ug/l														
Inorganics	9034	N	Sulfide	mg/l														
Inorganics	SM 4500-S2-F-2000(2011)	N	Sulfide	mg/l														
Inorganics	9056A	N	Chloride	mg/l														
Inorganics	9056A	N	Nitrate as N	mg/l														
Inorganics	9056A	N	Sulfate	mg/l														
Inorganics	SM 2320 B-1997(2011)	N	Total Alkalinity, as CaCO3	mg/l														
Inorganics	SM350 C-2000(2011)	N	Total Organic Carbon	mg/l														
TOC	SM 5310 B-2014	N	Total Organic Carbon	mg/l														

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
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					Location Lab SDG Sample Date Field Sample ID Qc Code		MW-103 R2202960 4/5/2022 828133-MW103007 FS		MW-104 R2202960 4/5/2022 828133-MW104005 FS		MW-105 R2202960 4/5/2022 828133-MW105007 FS		MW-106 R2202960 4/5/2022 828133-MW106007 FS		MW-107 R2202960 4/6/2022 828133-MW107007 FS		MW-108 R2202960 4/5/2022 828133-MW108008 FS	
Method Class	Analysis Method	Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	SW8260C	N	1,1,1-Trichloroethane	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	1,1,2,2-Tetrachloroethane	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	1,1,2-Trichloroethane	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	1,1-Dichloroethane	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	1,1-Dichloroethene	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	1,2,3-Trichlorobenzene	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	1,2,4-Trichlorobenzene	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	1,2,4-Trimethylbenzene	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	1,2-Dibromo-3-chloropropane	ug/l	2	U	2	UJ	2	UJ	2	UJ	2	UJ	2	U	2	UJ
VOCs	SW8260C	N	1,2-Dibromoethane	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	1,2-Dichlorobenzene	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	1,2-Dichloroethane	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	1,2-Dichloropropane	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	1,3,5-Trimethylbenzene	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	1,3-Dichlorobenzene	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	1,4-Dichlorobenzene	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	1,4-Dioxane	ug/l	40	U	40	UJ	40	UJ	40	UJ	40	UJ	40	U	40	UJ
VOCs	SW8260C	N	2-Butanone	ug/l	5	U	5	UJ	5	UJ	5	UJ	5	UJ	5	U	5	UJ
VOCs	SW8260C	N	2-Hexanone	ug/l	5	U	5	UJ	5	UJ	5	UJ	5	UJ	5	U	5	UJ
VOCs	SW8260C	N	4-iso-Propyltoluene	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	4-Methyl-2-pentanone	ug/l	5	U	5	UJ	5	UJ	5	UJ	5	UJ	5	U	5	UJ
VOCs	SW8260C	N	Acetic acid, methyl ester	ug/l	2	U	2	UJ	2	UJ	2	UJ	2	UJ	2	U	2	UJ
VOCs	SW8260C	N	Acetone	ug/l	5	U	5	UJ	5.6	J	5	UJ	5	UJ	5	U	5	UJ
VOCs	SW8260C	N	Benzene	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Bromochloromethane	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Bromodichloromethane	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Bromoform	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Bromomethane	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Carbon disulfide	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Carbon tetrachloride	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Chlorobenzene	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Chloroethane	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Chloroform	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Chloromethane	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	cis-1,2-Dichloroethene	ug/l	2.5		1.3	J	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	cis-1,3-Dichloropropene	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Cyclohexane	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Dibromochloromethane	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Dichlorodifluoromethane	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Ethylbenzene	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Isopropylbenzene	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Methyl cyclohexane	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Methyl Tertbutyl Ether	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
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					Location Lab SDG Sample Date Field Sample ID Qc Code		MW-103 R2202960 4/5/2022 828133-MW103007 FS		MW-104 R2202960 4/5/2022 828133-MW104005 FS		MW-105 R2202960 4/5/2022 828133-MW105007 FS		MW-106 R2202960 4/5/2022 828133-MW106007 FS		MW-107 R2202960 4/6/2022 828133-MW107007 FS		MW-108 R2202960 4/5/2022 828133-MW108008 FS	
Method Class	Analysis Method	Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	SW8260C	N	Methylene chloride	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	n-Butylbenzene	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Naphthalene	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Propylbenzene	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	sec-Butylbenzene	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Styrene	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	tert-Butylbenzene	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Tetrachloroethene	ug/l	0.86	J	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Toluene	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	trans-1,2-Dichloroethene	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	trans-1,3-Dichloropropene	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Trichloroethene	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Trichlorofluoromethane	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Vinyl chloride	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Xylene, o	ug/l	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ
VOCs	SW8260C	N	Xylenes (m&p)	ug/l	2	U	2	UJ	2	UJ	2	UJ	2	UJ	2	U	2	UJ
Metals	SW6010C	T	Iron	ug/l														
Metals	SW6010C	T	Manganese	ug/l														
Dis Gases	RSK175	N	Ethane	ug/l														
Dis Gases	RSK175	N	Ethene	ug/l														
Dis Gases	RSK175	N	Methane	ug/l														
Inorganics	9034	N	Sulfide	mg/l														
Inorganics	SM 4500-S2-F-2000(2011)	N	Sulfide	mg/l														
Inorganics	9056A	N	Chloride	mg/l														
Inorganics	9056A	N	Nitrate as N	mg/l														
Inorganics	9056A	N	Sulfate	mg/l														
Inorganics	SM 2320 B-1997(2011)	N	Total Alkalinity, as CaCO3	mg/l														
Inorganics	SM350 C-2000(2011)	N	Total Organic Carbon	mg/l														
TOC	SM 5310 B-2014	N	Total Organic Carbon	mg/l														

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
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					Location Lab SDG Sample Date Field Sample ID Qc Code		MW-109 R2202960 4/5/2022 828133-MW109007 FS		MW-110 R2202960 4/6/2022 828133-MW110010 FS		MW-111 R2202960 4/6/2022 828133-MW111007 FS		MW-112 R2202960 4/6/2022 828133-MW112007 FS		MW-113 R2110341 10/4/2021 828133-MW113-100421 FS		MW-113 R2112807 12/7/2021 828133-MW113-120721 FS	
Method Class	Analysis Method	Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	SW8260C	N	1,1,1-Trichloroethane	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	1,1,2,2-Tetrachloroethane	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	1,1,2-Trichloroethane	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	1,1-Dichloroethane	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	1,1-Dichloroethene	ug/l	1	UJ	10	J	15		130	J	17	J	20			
VOCs	SW8260C	N	1,2,3-Trichlorobenzene	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	1,2,4-Trichlorobenzene	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	1,2,4-Trimethylbenzene	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	1,2-Dibromo-3-chloropropane	ug/l	2	UJ	50	U	20	U	1,000	U	50	U	40	U		
VOCs	SW8260C	N	1,2-Dibromoethane	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	1,2-Dichlorobenzene	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	1,2-Dichloroethane	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	1,2-Dichloropropane	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	1,3,5-Trimethylbenzene	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	1,3-Dichlorobenzene	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	1,4-Dichlorobenzene	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	1,4-Dioxane	ug/l	40	UJ	1,000	U	400	U	20,000	U	1,000	U	800	UJ		
VOCs	SW8260C	N	2-Butanone	ug/l	5	UJ	130	U	50	U	2,500	U	130	UJ	100	UJ		
VOCs	SW8260C	N	2-Hexanone	ug/l	5	UJ	130	U	50	U	2,500	U	130	U	100	UJ		
VOCs	SW8260C	N	4-iso-Propyltoluene	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	4-Methyl-2-pentanone	ug/l	5	UJ	130	U	50	U	2,500	U	130	U	100	UJ		
VOCs	SW8260C	N	Acetic acid, methyl ester	ug/l	2	UJ	50	U	20	U	1,000	U	50	UJ	40	UJ		
VOCs	SW8260C	N	Acetone	ug/l	5	UJ	130	U	50	U	2,500	U	130	U	100	UJ		
VOCs	SW8260C	N	Benzene	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	Bromochloromethane	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	Bromodichloromethane	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	Bromoform	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	Bromomethane	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	Carbon disulfide	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	Carbon tetrachloride	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	Chlorobenzene	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	Chloroethane	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	Chloroform	ug/l	1	UJ	8.7	J	10	U	430	J	25	U	20	U		
VOCs	SW8260C	N	Chloromethane	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	cis-1,2-Dichloroethene	ug/l	1	UJ	57		220		12,000		390		640			
VOCs	SW8260C	N	cis-1,3-Dichloropropene	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	Cyclohexane	ug/l	1	UJ	25	U	10	U	500	U	25	UJ	20	U		
VOCs	SW8260C	N	Dibromochloromethane	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	Dichlorodifluoromethane	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	Ethylbenzene	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	Isopropylbenzene	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	Methyl cyclohexane	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	Methyl Tertbutyl Ether	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
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					Location Lab SDG Sample Date Field Sample ID Qc Code		MW-109 R2202960 4/5/2022 828133-MW109007 FS		MW-110 R2202960 4/6/2022 828133-MW110010 FS		MW-111 R2202960 4/6/2022 828133-MW111007 FS		MW-112 R2202960 4/6/2022 828133-MW112007 FS		MW-113 R2110341 10/4/2021 828133-MW113-100421 FS		MW-113 R2112807 12/7/2021 828133-MW113-120721 FS	
Method Class	Analysis Method	Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	SW8260C	N	Methylene chloride	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	n-Butylbenzene	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	Naphthalene	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	Propylbenzene	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	sec-Butylbenzene	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	Styrene	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	tert-Butylbenzene	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	Tetrachloroethene	ug/l	1	UJ	5,800		1,500		74,000		4,100		1,800			
VOCs	SW8260C	N	Toluene	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	trans-1,2-Dichloroethene	ug/l	1	UJ	25	U	10	U	500	U	25	U	8.6	J		
VOCs	SW8260C	N	trans-1,3-Dichloropropene	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	Trichloroethene	ug/l	1	UJ	110		220		8,400		1,400		1,700			
VOCs	SW8260C	N	Trichlorofluoromethane	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	Vinyl chloride	ug/l	1	UJ	23	J	31		580		22	J	48			
VOCs	SW8260C	N	Xylene, o	ug/l	1	UJ	25	U	10	U	500	U	25	U	20	U		
VOCs	SW8260C	N	Xylenes (m&p)	ug/l	2	UJ	50	U	20	U	1,000	U	50	U	40	U		
Metals	SW6010C	T	Iron	ug/l									1,380		1,300			
Metals	SW6010C	T	Manganese	ug/l									5,140		3,670			
Dis Gases	RSK175	N	Ethane	ug/l									0.27	J	1	U		
Dis Gases	RSK175	N	Ethene	ug/l									1	U	1.5			
Dis Gases	RSK175	N	Methane	ug/l									18		23			
Inorganics	9034	N	Sulfide	mg/l														
Inorganics	SM 4500-S2-F-2000(2011)	N	Sulfide	mg/l									1.1	U	0.96	U		
Inorganics	9056A	N	Chloride	mg/l									322		253			
Inorganics	9056A	N	Nitrate as N	mg/l									2	U	0.7	J		
Inorganics	9056A	N	Sulfate	mg/l									62.4		50.3			
Inorganics	SM 2320 B-1997(2011)	N	Total Alkalinity, as CaCO3	mg/l									417		516			
Inorganics	SM350 C-2000(2011)	N	Total Organic Carbon	mg/l									4.1		8.1			
TOC	SM 5310 B-2014	N	Total Organic Carbon	mg/l														

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
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					Location Lab SDG Sample Date Field Sample ID Qc Code		MW-113 R2202959 4/5/2022 828133-MW113011 FS		MW-113 R2202959 4/5/2022 828133-MW113011D FD		MW-114 R2110341 10/4/2021 828133-MW114-100421 FS		MW-114 R2110341 10/4/2021 828133-MW114-100421-Dup FD		MW-114 R2112807 12/7/2021 828133-MW114-120721 FS		MW-114 R2112807 12/7/2021 828133-MW114-120721-Dup FD	
Method Class	Analysis Method	Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	SW8260C	N	1,1,1-Trichloroethane	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	1,1,2,2-Tetrachloroethane	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	1,1,2-Trichloroethane	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	1,1-Dichloroethane	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	1,1-Dichloroethene	ug/l	11	J	11	J	20	U	4.1	J	20	U	25	U	25	U
VOCs	SW8260C	N	1,2,3-Trichlorobenzene	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	1,2,4-Trichlorobenzene	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	1,2,4-Trimethylbenzene	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	1,2-Dibromo-3-chloropropane	ug/l	10	UJ	10	UJ	40	U	40	U	40	U	50	U	50	U
VOCs	SW8260C	N	1,2-Dibromoethane	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	1,2-Dichlorobenzene	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	1,2-Dichloroethane	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	1,2-Dichloropropane	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	1,3,5-Trimethylbenzene	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	1,3-Dichlorobenzene	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	1,4-Dichlorobenzene	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	1,4-Dioxane	ug/l	200	UJ	200	UJ	800	U	800	U	800	U	1,000	UJ	1,000	UJ
VOCs	SW8260C	N	2-Butanone	ug/l	25	UJ	25	UJ	100	UJ	100	UJ	100	UJ	130	UJ	130	UJ
VOCs	SW8260C	N	2-Hexanone	ug/l	25	UJ	25	UJ	100	U	100	U	100	U	130	UJ	130	UJ
VOCs	SW8260C	N	4-iso-Propyltoluene	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	4-Methyl-2-pentanone	ug/l	25	UJ	25	UJ	100	U	100	U	100	U	130	UJ	130	UJ
VOCs	SW8260C	N	Acetic acid, methyl ester	ug/l	10	UJ	10	UJ	40	U	40	UJ	40	UJ	50	UJ	50	UJ
VOCs	SW8260C	N	Acetone	ug/l	25	UJ	25	UJ	100	U	100	UJ	100	UJ	130	UJ	130	UJ
VOCs	SW8260C	N	Benzene	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	Bromochloromethane	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	Bromodichloromethane	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	Bromoform	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	Bromomethane	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	Carbon disulfide	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	Carbon tetrachloride	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	Chlorobenzene	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	Chloroethane	ug/l	1.9	J	2.2	J	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	Chloroform	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	Chloromethane	ug/l	5	UJ	5	UJ	5.7	J	20	U	20	U	53		47	
VOCs	SW8260C	N	cis-1,2-Dichloroethene	ug/l	490	J	460	J	20		18	J	20	U	71		70	
VOCs	SW8260C	N	cis-1,3-Dichloropropene	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	Cyclohexane	ug/l	5	UJ	5	UJ	20	UJ	20	UJ	20	UJ	25	U	25	U
VOCs	SW8260C	N	Dibromochloromethane	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	Dichlorodifluoromethane	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	Ethylbenzene	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	Isopropylbenzene	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	Methyl cyclohexane	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U
VOCs	SW8260C	N	Methyl Tertbutyl Ether	ug/l	5	UJ	5	UJ	20	U	20	U	20	U	25	U	25	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
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					Location Lab SDG Sample Date Field Sample ID Qc Code		MW-113 R2202959 4/5/2022 828133-MW113011 FS		MW-113 R2202959 4/5/2022 828133-MW113011D FD		MW-114 R2110341 10/4/2021 828133-MW114-100421 FS		MW-114 R2110341 10/4/2021 828133-MW114-100421-Dup FD		MW-114 R2112807 12/7/2021 828133-MW114-120721 FS		MW-114 R2112807 12/7/2021 828133-MW114-120721-Dup FD	
Method Class	Analysis Method	Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	SW8260C	N	Methylene chloride	ug/l	5	UJ	5	UJ	20	U	20	U	25	U	25	U	25	U
VOCs	SW8260C	N	n-Butylbenzene	ug/l	5	UJ	5	UJ	20	U	20	U	25	U	25	U	25	U
VOCs	SW8260C	N	Naphthalene	ug/l	5	UJ	5	UJ	20	U	20	U	25	U	25	U	25	U
VOCs	SW8260C	N	Propylbenzene	ug/l	5	UJ	5	UJ	20	U	20	U	25	U	25	U	25	U
VOCs	SW8260C	N	sec-Butylbenzene	ug/l	5	UJ	5	UJ	20	U	20	U	25	U	25	U	25	U
VOCs	SW8260C	N	Styrene	ug/l	5	UJ	5	UJ	20	U	20	U	25	U	25	U	25	U
VOCs	SW8260C	N	tert-Butylbenzene	ug/l	5	UJ	5	UJ	20	U	20	U	25	U	25	U	25	U
VOCs	SW8260C	N	Tetrachloroethene	ug/l	780	J	850	J	2,600		2,900		3,000		3,100		3,100	
VOCs	SW8260C	N	Toluene	ug/l	5	UJ	5	UJ	20	U	20	U	25	U	25	U	25	U
VOCs	SW8260C	N	trans-1,2-Dichloroethene	ug/l	3.3	J	3.4	J	20	U	20	U	25	U	25	U	25	U
VOCs	SW8260C	N	trans-1,3-Dichloropropene	ug/l	5	UJ	5	UJ	20	U	20	U	25	U	25	U	25	U
VOCs	SW8260C	N	Trichloroethene	ug/l	310	J	310	J	78		82		140		140		140	
VOCs	SW8260C	N	Trichlorofluoromethane	ug/l	5	UJ	5	UJ	20	U	20	U	25	U	25	U	25	U
VOCs	SW8260C	N	Vinyl chloride	ug/l	23	J	19	J	20	U	20	U	25	U	25	U	25	U
VOCs	SW8260C	N	Xylene, o	ug/l	5	UJ	5	UJ	20	U	20	U	25	U	25	U	25	U
VOCs	SW8260C	N	Xylenes (m&p)	ug/l	10	UJ	10	UJ	40	U	40	U	50	U	50	U	50	U
Metals	SW6010C	T	Iron	ug/l	345				1,260				721					
Metals	SW6010C	T	Manganese	ug/l	187				2,540				754					
Dis Gases	RSK175	N	Ethane	ug/l	0.38	J			1	U			1	U				
Dis Gases	RSK175	N	Ethene	ug/l	8				1	U			1	U				
Dis Gases	RSK175	N	Methane	ug/l	140				4.6				8.9					
Inorganics	9034	N	Sulfide	mg/l					2	U								
Inorganics	SM 4500-S2-F-2000(2011)	N	Sulfide	mg/l	1	U							1	U				
Inorganics	9056A	N	Chloride	mg/l	138				297				304					
Inorganics	9056A	N	Nitrate as N	mg/l	0.8	J			1	U			1	U				
Inorganics	9056A	N	Sulfate	mg/l	64.4				66.3				85.1					
Inorganics	SM 2320 B-1997(2011)	N	Total Alkalinity, as CaCO3	mg/l	594				435				469					
Inorganics	SM350 C-2000(2011)	N	Total Organic Carbon	mg/l					3.9				4.4					
TOC	SM 5310 B-2014	N	Total Organic Carbon	mg/l	46.6													

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
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					Location Lab SDG Sample Date Field Sample ID Qc Code	MW-114 R2202959 4/5/2022 828133-MW114010 FS	MW-12D R2202960 4/5/2022 828133-MW12D015 FS	MW-14D R2110341 10/4/2021 828133-MW14D-100421 FS	MW-14D R2112807 12/7/2021 828133-MW14D-120721 FS	MW-14D R2202959 4/5/2022 828133-MW14D020 FS	MW-2D R2202960 4/6/2022 828133-MW2D020 FS	
Method Class	Analysis Method	Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	SW8260C	N	1,1,1-Trichloroethane	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	1,1,2,2-Tetrachloroethane	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	1,1,2-Trichloroethane	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	1,1-Dichloroethane	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	1,1-Dichloroethene	ug/l	25	UJ	0.64	J	1.1	J	5.2	J
VOCs	SW8260C	N	1,2,3-Trichlorobenzene	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	1,2,4-Trichlorobenzene	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	1,2,4-Trimethylbenzene	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	1,2-Dibromo-3-chloropropane	ug/l	50	UJ	4	UJ	5	U	40	UJ
VOCs	SW8260C	N	1,2-Dibromoethane	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	1,2-Dichlorobenzene	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	1,2-Dichloroethane	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	1,2-Dichloropropane	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	1,3,5-Trimethylbenzene	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	1,3-Dichlorobenzene	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	1,4-Dichlorobenzene	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	1,4-Dioxane	ug/l	1,000	UJ	80	UJ	100	UJ	800	UJ
VOCs	SW8260C	N	2-Butanone	ug/l	130	UJ	10	UJ	13	UJ	100	UJ
VOCs	SW8260C	N	2-Hexanone	ug/l	130	UJ	10	UJ	13	UJ	100	UJ
VOCs	SW8260C	N	4-iso-Propyltoluene	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	4-Methyl-2-pentanone	ug/l	130	UJ	10	UJ	13	UJ	100	UJ
VOCs	SW8260C	N	Acetic acid, methyl ester	ug/l	50	UJ	4	UJ	5	UJ	40	UJ
VOCs	SW8260C	N	Acetone	ug/l	130	UJ	10	UJ	13	UJ	100	UJ
VOCs	SW8260C	N	Benzene	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	Bromochloromethane	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	Bromodichloromethane	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	Bromoform	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	Bromomethane	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	Carbon disulfide	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	Carbon tetrachloride	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	Chlorobenzene	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	Chloroethane	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	Chloroform	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	Chloromethane	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	cis-1,2-Dichloroethene	ug/l	150	J	160	J	390	J	390	J
VOCs	SW8260C	N	cis-1,3-Dichloropropene	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	Cyclohexane	ug/l	25	UJ	2	UJ	2.5	UJ	20	UJ
VOCs	SW8260C	N	Dibromochloromethane	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	Dichlorodifluoromethane	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	Ethylbenzene	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	Isopropylbenzene	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	Methyl cyclohexane	ug/l	25	UJ	2	UJ	2.5	U	20	UJ
VOCs	SW8260C	N	Methyl Tertbutyl Ether	ug/l	25	UJ	2	UJ	2.5	U	20	UJ

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
OCTOBER AND DECEMBER 2021, APRIL 2022 SAMPLING EVENTS
ACE CLEANERS
BROCKPORT, NEW YORK

					Location	MW-114	MW-12D	MW-14D	MW-14D	MW-14D	MW-14D	MW-2D	
					Lab SDG	R2202959	R2202960	R2110341	R2112807	R2202959	R2202960		
					Sample Date	4/5/2022	4/5/2022	10/4/2021	12/7/2021	4/5/2022	4/6/2022		
					Field Sample ID	828133-MW114010	828133-MW12D015	828133-MW14D-100421	828133-MW14D-120721	828133-MW14D020	828133-MW2D020		
					Qc Code	FS	FS	FS	FS	FS	FS	FS	
Method Class	Analysis Method	Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	
VOCs	SW8260C	N	Methylene chloride	ug/l	25	UJ	2	UJ	2.5	U	2.5	U	
VOCs	SW8260C	N	n-Butylbenzene	ug/l	25	UJ	2	UJ	2.5	U	2.5	U	
VOCs	SW8260C	N	Naphthalene	ug/l	25	UJ	2	UJ	2.5	U	2.5	U	
VOCs	SW8260C	N	Propylbenzene	ug/l	25	UJ	2	UJ	2.5	U	2.5	U	
VOCs	SW8260C	N	sec-Butylbenzene	ug/l	25	UJ	2	UJ	2.5	U	2.5	U	
VOCs	SW8260C	N	Styrene	ug/l	25	UJ	2	UJ	2.5	U	2.5	U	
VOCs	SW8260C	N	tert-Butylbenzene	ug/l	25	UJ	2	UJ	2.5	U	2.5	U	
VOCs	SW8260C	N	Tetrachloroethene	ug/l	2,700	J	4.3	J	7.1		1,900		
VOCs	SW8260C	N	Toluene	ug/l	25	UJ	2	UJ	2.5	U	2.5	U	
VOCs	SW8260C	N	trans-1,2-Dichloroethene	ug/l	25	UJ	2	J	4		4.9		
VOCs	SW8260C	N	trans-1,3-Dichloropropene	ug/l	25	UJ	2	UJ	2.5	U	2.5	U	
VOCs	SW8260C	N	Trichloroethene	ug/l	210	J	4.8	J	6.1		280		
VOCs	SW8260C	N	Trichlorofluoromethane	ug/l	25	UJ	2	UJ	2.5	U	2.5	U	
VOCs	SW8260C	N	Vinyl chloride	ug/l	25	UJ	6.7	J	20		220		
VOCs	SW8260C	N	Xylene, o	ug/l	25	UJ	2	UJ	2.5	U	2.5	U	
VOCs	SW8260C	N	Xylenes (m&p)	ug/l	50	UJ	4	UJ	5	U	5	U	
Metals	SW6010C	T	Iron	ug/l	371			417		1,790		1,510	
Metals	SW6010C	T	Manganese	ug/l	639			707		1,170		910	
Dis Gases	RSK175	N	Ethane	ug/l	1	U		440		81		130	
Dis Gases	RSK175	N	Ethene	ug/l	1	U		0.53	J	16		6.9	J
Dis Gases	RSK175	N	Methane	ug/l	5.7			1,900		550		720	
Inorganics	9034	N	Sulfide	mg/l									
Inorganics	SM 4500-S2-F-2000(2011)	N	Sulfide	mg/l	0.98	U		1	U	0.97	U	0.97	U
Inorganics	9056A	N	Chloride	mg/l	304			244		290		283	
Inorganics	9056A	N	Nitrate as N	mg/l	1	U		1	U	1	U	1	U
Inorganics	9056A	N	Sulfate	mg/l	103			88.9		72.3		61.8	
Inorganics	SM 2320 B-1997(2011)	N	Total Alkalinity, as CaCO3	mg/l	469			350		455		433	
Inorganics	SM350 C-2000(2011)	N	Total Organic Carbon	mg/l				1.9		4.8			
TOC	SM 5310 B-2014	N	Total Organic Carbon	mg/l	5.8						3		

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
OCTOBER AND DECEMBER 2021, APRIL 2022 SAMPLING EVENTS
ACE CLEANERS
BROCKPORT, NEW YORK

		Location			SUMP		QC		QC		QC		QC	
		Lab SDG			R2112847		R2110341		R2112807		R2202959		R2202960	
		Sample Date			12/8/2021		10/4/2021		12/7/2021		4/5/2022		4/5/2022	
		Field Sample ID			828133-SUMP011		828133-TB-100421		Trip Blank		Trip Blank		Trip Blank	
		Qc Code			FS		TB		TB		TB		TB	
Method Class	Analysis Method	Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	SW8260C	N	1,1,1-Trichloroethane	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	1,1,2,2-Tetrachloroethane	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	1,1,2-Trichloroethane	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	1,1-Dichloroethane	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	1,1-Dichloroethene	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	1,2,3-Trichlorobenzene	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	1,2,4-Trichlorobenzene	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	1,2,4-Trimethylbenzene	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	1,2-Dibromo-3-chloropropane	ug/l	2 U		2 U		2 U		2 U		2 U	
VOCs	SW8260C	N	1,2-Dibromoethane	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	1,2-Dichlorobenzene	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	1,2-Dichloroethane	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	1,2-Dichloropropane	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	1,3,5-Trimethylbenzene	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	1,3-Dichlorobenzene	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	1,4-Dichlorobenzene	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	1,4-Dioxane	ug/l	40 U		40 U		40 U		40 U		40 U	
VOCs	SW8260C	N	2-Butanone	ug/l	5 U		5 U		5 U		5 U		5 U	
VOCs	SW8260C	N	2-Hexanone	ug/l	5 U		5 U		5 U		5 U		5 U	
VOCs	SW8260C	N	4-iso-Propyltoluene	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	4-Methyl-2-pentanone	ug/l	5 U		5 U		5 U		5 U		5 U	
VOCs	SW8260C	N	Acetic acid, methyl ester	ug/l	2 U		2 U		2 U		0.39 J		2 U	
VOCs	SW8260C	N	Acetone	ug/l	5 U		5 U		5 U		5 U		5 U	
VOCs	SW8260C	N	Benzene	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	Bromochloromethane	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	Bromodichloromethane	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	Bromoform	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	Bromomethane	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	Carbon disulfide	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	Carbon tetrachloride	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	Chlorobenzene	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	Chloroethane	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	Chloroform	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	Chloromethane	ug/l	0.5 J		1 U		1.5		1 U		1 U	
VOCs	SW8260C	N	cis-1,2-Dichloroethene	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	cis-1,3-Dichloropropene	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	Cyclohexane	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	Dibromochloromethane	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	Dichlorodifluoromethane	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	Ethylbenzene	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	Isopropylbenzene	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	Methyl cyclohexane	ug/l	1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	Methyl Tertbutyl Ether	ug/l	0.83 J		1 U		1 U		1 U		1 U	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
OCTOBER AND DECEMBER 2021, APRIL 2022 SAMPLING EVENTS
ACE CLEANERS
BROCKPORT, NEW YORK

					Location		SUMP		QC		QC		QC		QC	
					Lab	SDG	R2112847		R2110341		R2112807		R2202959		R2202960	
					Sample Date		12/8/2021		10/4/2021		12/7/2021		4/5/2022		4/5/2022	
					Field Sample ID		828133-SUMP011		828133-TB-100421		Trip Blank		Trip Blank		Trip Blank	
					Qc Code		FS		TB		TB		TB		TB	
Method Class	Analysis Method	Fraction	Parameter	Units			Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	SW8260C	N	Methylene chloride	ug/l			1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	n-Butylbenzene	ug/l			1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	Naphthalene	ug/l			1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	Propylbenzene	ug/l			1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	sec-Butylbenzene	ug/l			1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	Styrene	ug/l			1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	tert-Butylbenzene	ug/l			1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	Tetrachloroethene	ug/l			1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	Toluene	ug/l			1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	trans-1,2-Dichloroethene	ug/l			1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	trans-1,3-Dichloropropene	ug/l			1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	Trichloroethene	ug/l			1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	Trichlorofluoromethane	ug/l			1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	Vinyl chloride	ug/l			1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	Xylene, o	ug/l			1 U		1 U		1 U		1 U		1 U	
VOCs	SW8260C	N	Xylenes (m&p)	ug/l			2 U		2 U		2 U		2 U		2 U	
Metals	SW6010C	T	Iron	ug/l												
Metals	SW6010C	T	Manganese	ug/l												
Dis Gases	RSK175	N	Ethane	ug/l												
Dis Gases	RSK175	N	Ethene	ug/l												
Dis Gases	RSK175	N	Methane	ug/l												
Inorganics	9034	N	Sulfide	mg/l												
Inorganics	SM 4500-S2-F-2000(2011)	N	Sulfide	mg/l												
Inorganics	9056A	N	Chloride	mg/l												
Inorganics	9056A	N	Nitrate as N	mg/l												
Inorganics	9056A	N	Sulfate	mg/l												
Inorganics	SM 2320 B-1997(2011)	N	Total Alkalinity, as CaCO3	mg/l												
Inorganics	SM350 C-2000(2011)	N	Total Organic Carbon	mg/l												
TOC	SM 5310 B-2014	N	Total Organic Carbon	mg/l												

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
DATA USABILITY SUMMARY REPORT
OCTOBER AND DECEMBER 2021, APRIL 2022 SAMPLING EVENTS
ACE CLEANERS
BROCKPORT, NEW YORK

Lab SDG	Lab Sample ID	Field Sample ID	Analysis Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units	Lab ID
R2110341	R2110341-001	828133-MW113-100421	SW8260C	N	Acetone	130	U	130	U	CCV%D, LCSL	ug/l	ALSRNY
R2110341	R2110341-001	828133-MW113-100421	SW8260C	N	Cyclohexane	25	U	25	UJ	CCV%D	ug/l	ALSRNY
R2110341	R2110341-001	828133-MW113-100421	SW8260C	N	Acetic acid, methyl ester	50	U	50	UJ	CCV%D	ug/l	ALSRNY
R2110341	R2110341-001	828133-MW113-100421	SW8260C	N	2-Butanone	130	U	130	UJ	CCV%D, LCSL	ug/l	ALSRNY
R2110341	R2110341-002	828133-MW114-100421	SW8260C	N	2-Butanone	100	U	100	UJ	CCV%D, LCSL	ug/l	ALSRNY
R2110341	R2110341-002	828133-MW114-100421	SW8260C	N	Acetone	100	U	100	U	CCV%D, LCSL	ug/l	ALSRNY
R2110341	R2110341-002	828133-MW114-100421	SW8260C	N	Cyclohexane	20	U	20	UJ	CCV%D	ug/l	ALSRNY
R2110341	R2110341-002	828133-MW114-100421	SW8260C	N	Acetic acid, methyl ester	40	U	40	U	CCV%D	ug/l	ALSRNY
R2110341	R2110341-003	828133-MW14D-100421	SW8260C	N	Acetic acid, methyl ester	5	U	5	UJ	CCV%D	ug/l	ALSRNY
R2110341	R2110341-003	828133-MW14D-100421	SW8260C	N	Cyclohexane	2.5	U	2.5	UJ	CCV%D	ug/l	ALSRNY
R2110341	R2110341-003	828133-MW14D-100421	SW8260C	N	Acetone	13	U	13	UJ	CCV%D, LCSL	ug/l	ALSRNY
R2110341	R2110341-003	828133-MW14D-100421	SW8260C	N	2-Butanone	13	U	13	UJ	CCV%D, LCSL	ug/l	ALSRNY
R2110341	R2110341-004	828133-GW14-100421	SW8260C	N	Acetone	50	U	50	UJ	CCV%D, LCSL	ug/l	ALSRNY
R2110341	R2110341-004	828133-GW14-100421	SW8260C	N	2-Butanone	50	U	50	UJ	CCV%D, LCSL	ug/l	ALSRNY
R2110341	R2110341-004	828133-GW14-100421	SW8260C	N	Cyclohexane	10	U	10	UJ	CCV%D	ug/l	ALSRNY
R2110341	R2110341-004	828133-GW14-100421	SW8260C	N	Acetic acid, methyl ester	20	U	20	UJ	CCV%D	ug/l	ALSRNY
R2110341	R2110341-006	828133-MW114-100421-Dup	SW8260C	N	2-Butanone	100	U	100	UJ	CCV%D, LCSL	ug/l	ALSRNY
R2110341	R2110341-006	828133-MW114-100421-Dup	SW8260C	N	Acetone	100	U	100	UJ	CCV%D, LCSL	ug/l	ALSRNY
R2110341	R2110341-006	828133-MW114-100421-Dup	SW8260C	N	Cyclohexane	20	U	20	UJ	CCV%D	ug/l	ALSRNY
R2110341	R2110341-006	828133-MW114-100421-Dup	SW8260C	N	Acetic acid, methyl ester	40	U	40	UJ	CCV%D	ug/l	ALSRNY
R2112807	R2112807-001	828133-MW114-120721	SW8260C	N	Acetone	130	U	130	UJ	CCV%D	ug/l	ALSRNY
R2112807	R2112807-001	828133-MW114-120721	SW8260C	N	Acetic acid, methyl ester	50	U	50	UJ	CCV%D	ug/l	ALSRNY
R2112807	R2112807-001	828133-MW114-120721	SW8260C	N	4-Methyl-2-pentanone	130	U	130	UJ	CCV%D	ug/l	ALSRNY
R2112807	R2112807-001	828133-MW114-120721	SW8260C	N	1,4-Dioxane	1,000	U	1,000	UJ	CCV%D	ug/l	ALSRNY
R2112807	R2112807-001	828133-MW114-120721	SW8260C	N	2-Butanone	130	U	130	UJ	CCV%D	ug/l	ALSRNY
R2112807	R2112807-001	828133-MW114-120721	SW8260C	N	2-Hexanone	130	U	130	UJ	CCV%D	ug/l	ALSRNY
R2112807	R2112807-002	828133-MW114-120721-Dup	SW8260C	N	Acetic acid, methyl ester	50	U	50	UJ	CCV%D	ug/l	ALSRNY
R2112807	R2112807-002	828133-MW114-120721-Dup	SW8260C	N	Acetone	130	U	130	UJ	CCV%D	ug/l	ALSRNY
R2112807	R2112807-002	828133-MW114-120721-Dup	SW8260C	N	4-Methyl-2-pentanone	130	U	130	UJ	CCV%D	ug/l	ALSRNY
R2112807	R2112807-002	828133-MW114-120721-Dup	SW8260C	N	2-Butanone	130	U	130	UJ	CCV%D	ug/l	ALSRNY
R2112807	R2112807-002	828133-MW114-120721-Dup	SW8260C	N	1,4-Dioxane	1,000	U	1,000	UJ	CCV%D	ug/l	ALSRNY
R2112807	R2112807-002	828133-MW114-120721-Dup	SW8260C	N	2-Hexanone	130	U	130	UJ	CCV%D	ug/l	ALSRNY
R2112807	R2112807-003	828133-MW14D-120721	SW8260C	N	Chloromethane	5.1		5.1	J+	BL2	ug/l	ALSRNY
R2112807	R2112807-003	828133-MW14D-120721	SW8260C	N	Acetic acid, methyl ester	5	U	5	UJ	CCV%D	ug/l	ALSRNY
R2112807	R2112807-003	828133-MW14D-120721	SW8260C	N	Acetone	13	U	13	UJ	CCV%D	ug/l	ALSRNY
R2112807	R2112807-003	828133-MW14D-120721	SW8260C	N	1,4-Dioxane	100	U	100	UJ	CCV%D	ug/l	ALSRNY
R2112807	R2112807-003	828133-MW14D-120721	SW8260C	N	2-Hexanone	13	U	13	UJ	CCV%D	ug/l	ALSRNY
R2112807	R2112807-003	828133-MW14D-120721	SW8260C	N	2-Butanone	13	U	13	UJ	CCV%D	ug/l	ALSRNY
R2112807	R2112807-003	828133-MW14D-120721	SW8260C	N	4-Methyl-2-pentanone	13	U	13	UJ	CCV%D	ug/l	ALSRNY
R2112807	R2112807-004	828133-MW113-120721	SW8260C	N	Acetic acid, methyl ester	40	U	40	UJ	CCV%D	ug/l	ALSRNY
R2112807	R2112807-004	828133-MW113-120721	SW8260C	N	Acetone	100	U	100	UJ	CCV%D	ug/l	ALSRNY

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
DATA USABILITY SUMMARY REPORT
OCTOBER AND DECEMBER 2021, APRIL 2022 SAMPLING EVENTS
ACE CLEANERS
BROCKPORT, NEW YORK

Lab SDG	Lab Sample ID	Field Sample ID	Analysis Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units	Lab ID
R2112807	R2112807-004	828133-MW113-120721	SW8260C	N	1,4-Dioxane	800 U		800 UJ		CCV%D	ug/l	ALSRNY
R2112807	R2112807-004	828133-MW113-120721	SW8260C	N	2-Hexanone	100 U		100 UJ		CCV%D	ug/l	ALSRNY
R2112807	R2112807-004	828133-MW113-120721	SW8260C	N	2-Butanone	100 U		100 UJ		CCV%D	ug/l	ALSRNY
R2112807	R2112807-004	828133-MW113-120721	SW8260C	N	4-Methyl-2-pentanone	100 U		100 UJ		CCV%D	ug/l	ALSRNY
R2112807	R2112807-005	828133-GW14-120721	SW8260C	N	1,4-Dioxane	200 U		200 UJ		CCV%D	ug/l	ALSRNY
R2112807	R2112807-005	828133-GW14-120721	SW8260C	N	2-Butanone	25 U		25 UJ		CCV%D	ug/l	ALSRNY
R2112807	R2112807-005	828133-GW14-120721	SW8260C	N	2-Hexanone	25 U		25 UJ		CCV%D	ug/l	ALSRNY
R2112807	R2112807-005	828133-GW14-120721	SW8260C	N	Acetone	25 U		25 UJ		CCV%D	ug/l	ALSRNY
R2112807	R2112807-005	828133-GW14-120721	SW8260C	N	Acetic acid, methyl ester	10 U		10 UJ		CCV%D	ug/l	ALSRNY
R2112807	R2112807-005	828133-GW14-120721	SW8260C	N	4-Methyl-2-pentanone	25 U		25 UJ		CCV%D	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Naphthalene	25 U		25 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Tetrachloroethene	2,700		2,700 J		SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Styrene	25 U		25 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Methyl cyclohexane	25 U		25 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Ethylbenzene	25 U		25 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Acetic acid, methyl ester	9.8 J		50 UJ		SP, BL1, BL2	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Isopropylbenzene	25 U		25 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Toluene	25 U		25 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Methylene chloride	25 U		25 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Methyl Tertbutyl Ether	25 U		25 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Trichloroethene	210		210 J		SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Xylenes (m&p)	50 U		50 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Vinyl chloride	25 U		25 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Dichlorodifluoromethane	25 U		25 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	trans-1,3-Dichloropropene	25 U		25 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	trans-1,2-Dichloroethene	25 U		25 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	tert-Butylbenzene	25 U		25 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Trichlorofluoromethane	25 U		25 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	sec-Butylbenzene	25 U		25 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Propylbenzene	25 U		25 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	n-Butylbenzene	25 U		25 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	cis-1,3-Dichloropropene	25 U		25 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	cis-1,2-Dichloroethene	150		150 J		SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Xylene, o	25 U		25 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Cyclohexane	25 U		25 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Dibromochloromethane	25 U		25 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Chloroform	25 U		25 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	1,2-Dichloropropane	25 U		25 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	1,2-Dichloroethane	25 U		25 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	1,2-Dichlorobenzene	25 U		25 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	1,2-Dibromoethane	25 U		25 UJ		SP	ug/l	ALSRNY

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
DATA USABILITY SUMMARY REPORT
OCTOBER AND DECEMBER 2021, APRIL 2022 SAMPLING EVENTS
ACE CLEANERS
BROCKPORT, NEW YORK

Lab SDG	Lab Sample ID	Field Sample ID	Analysis Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units	Lab ID
R2202959	R2202959-001	828133-MW114010	SW8260C	N	1,2-Dibromo-3-chloropropane	50	U	50	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	1,2,4-Trimethylbenzene	25	U	25	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	1,3,5-Trimethylbenzene	25	U	25	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	1,2,4-Trichlorobenzene	25	U	25	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Chloromethane	8.1	J	25	UJ	SP, BL1	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	1,1-Dichloroethane	25	U	25	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	25	U	25	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	1,1,2-Trichloroethane	25	U	25	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	1,1,2,2-Tetrachloroethane	25	U	25	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	1,1,1-Trichloroethane	25	U	25	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	1,2,3-Trichlorobenzene	25	U	25	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	1,3-Dichlorobenzene	25	U	25	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	1,1-Dichloroethene	25	U	25	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	1,4-Dioxane	1,000	U	1,000	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Bromoform	25	U	25	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Carbon tetrachloride	25	U	25	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Chlorobenzene	25	U	25	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Chloroethane	25	U	25	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	1,4-Dichlorobenzene	25	U	25	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Bromomethane	25	U	25	UJ	SP, CCV%D	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Bromodichloromethane	25	U	25	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Carbon disulfide	25	U	25	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	2-Butanone	130	U	130	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Benzene	25	U	25	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	2-Hexanone	130	U	130	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Acetone	130	U	130	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	4-iso-Propyltoluene	25	U	25	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	4-Methyl-2-pentanone	130	U	130	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-001	828133-MW114010	SW8260C	N	Bromochloromethane	25	U	25	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Methylene chloride	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Styrene	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Naphthalene	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Methyl cyclohexane	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Methyl Tertbutyl Ether	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Isopropylbenzene	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Tetrachloroethene	2,300		2,300	J	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Acetic acid, methyl ester	6.7	J	40	UJ	SP, BL1, BL2	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Trichlorofluoromethane	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Trichloroethene	260		260	J	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	tert-Butylbenzene	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	sec-Butylbenzene	20	U	20	UJ	SP	ug/l	ALSRNY

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ACE CLEANERS
BROCKPORT, NEW YORK

Lab SDG	Lab Sample ID	Field Sample ID	Analysis Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units	Lab ID
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Xylene, o	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Propylbenzene	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Toluene	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	n-Butylbenzene	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	cis-1,3-Dichloropropene	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	cis-1,2-Dichloroethene	390		390	J	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Vinyl chloride	110		110	J	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Dichlorodifluoromethane	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Xylenes (m&p)	40	U	40	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Dibromochloromethane	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Bromomethane	20	U	20	UJ	SP, CCV%D	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Chloromethane	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	2-Hexanone	100	U	100	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	2-Butanone	100	U	100	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	1,4-Dioxane	800	U	800	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	4-iso-Propyltoluene	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	1,4-Dichlorobenzene	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	1,3,5-Trimethylbenzene	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	1,2-Dichloropropane	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	1,2-Dichloroethane	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	1,3-Dichlorobenzene	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	4-Methyl-2-pentanone	100	U	100	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Acetone	100	U	100	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Benzene	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Chloroform	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Chloroethane	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Chlorobenzene	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Carbon tetrachloride	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Carbon disulfide	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Bromoform	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Bromodichloromethane	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Bromochloromethane	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	trans-1,2-Dichloroethene	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Cyclohexane	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	trans-1,3-Dichloropropene	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	Ethylbenzene	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	1,2-Dibromo-3-chloropropane	40	U	40	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	1,2-Dichlorobenzene	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	1,2-Dibromoethane	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	1,2,4-Trimethylbenzene	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	1,2,4-Trichlorobenzene	20	U	20	UJ	SP	ug/l	ALSRNY

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ACE CLEANERS
BROCKPORT, NEW YORK

Lab SDG	Lab Sample ID	Field Sample ID	Analysis Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units	Lab ID
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	1,2,3-Trichlorobenzene	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	1,1-Dichloroethene	5.2	J	5.2	J	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	1,1,2-Trichloroethane	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	1,1,2,2-Tetrachloroethane	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	1,1,1-Trichloroethane	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-002	828133-MW14D020	SW8260C	N	1,1-Dichloroethane	20	U	20	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	1,3-Dichlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	1,3,5-Trimethylbenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	1,2-Dichloropropane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	1,4-Dichlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Dichlorodifluoromethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	2-Butanone	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	2-Hexanone	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	1,2-Dichloroethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	4-iso-Propyltoluene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	1,4-Dioxane	40	U	40	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	1,2-Dichlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	1	U	1	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	1,2,4-Trimethylbenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Dibromochloromethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	1,1,1-Trichloroethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	1,1,2,2-Tetrachloroethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	1,1,2-Trichloroethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	4-Methyl-2-pentanone	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	1,1-Dichloroethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	1,1-Dichloroethene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	1,2,3-Trichlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	1,2,4-Trichlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	1,2-Dibromoethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Acetone	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	1,2-Dibromo-3-chloropropane	2	U	2	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Bromochloromethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	cis-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	cis-1,2-Dichloroethene	120		120	J	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Vinyl chloride	0.82	J	0.82	J	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Trichlorofluoromethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Trichloroethene	7.3		7.3	J	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Toluene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Tetrachloroethene	9		9	J	SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Styrene	1	U	1	UJ	SP	ug/l	ALSRNY

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
DATA USABILITY SUMMARY REPORT
OCTOBER AND DECEMBER 2021, APRIL 2022 SAMPLING EVENTS
ACE CLEANERS
BROCKPORT, NEW YORK

Lab SDG	Lab Sample ID	Field Sample ID	Analysis Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units	Lab ID
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Naphthalene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Methyl cyclohexane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Benzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Acetic acid, methyl ester	2 U		2 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Isopropylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Ethylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Methylene chloride	1 U		1 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Xylenes (m&p)	2 U		2 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	n-Butylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Methyl Tertbutyl Ether	1 U		1 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Xylene, o	1 U		1 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Propylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Bromodichloromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Bromoform	1 U		1 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Carbon disulfide	1 U		1 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Carbon tetrachloride	1 U		1 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Chlorobenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Chloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Bromomethane	1 U		1 UJ		SP, CCV%D	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	tert-Butylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Chloromethane	0.64 BJ		1 UJ		SP, BL1	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Cyclohexane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	trans-1,3-Dichloropropene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	Chloroform	1 U		1 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	sec-Butylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-003	828133-GW014012	SW8260C	N	trans-1,2-Dichloroethene	1.6		1.6 J		SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	4-iso-Propyltoluene	5 U		5 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Bromoform	5 U		5 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	1,4-Dioxane	200 U		200 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	2-Hexanone	25 U		25 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	2-Butanone	25 U		25 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Benzene	5 U		5 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Acetone	25 U		25 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Bromochloromethane	5 U		5 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Bromodichloromethane	5 U		5 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	1,4-Dichlorobenzene	5 U		5 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Bromomethane	5 U		5 UJ		SP, CCV%D	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	4-Methyl-2-pentanone	25 U		25 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	1,3-Dichlorobenzene	5 U		5 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	1,2,4-Trichlorobenzene	5 U		5 UJ		SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	1,2-Dichloropropane	5 U		5 UJ		SP	ug/l	ALSRNY

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
DATA USABILITY SUMMARY REPORT
OCTOBER AND DECEMBER 2021, APRIL 2022 SAMPLING EVENTS
ACE CLEANERS
BROCKPORT, NEW YORK

Lab SDG	Lab Sample ID	Field Sample ID	Analysis Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units	Lab ID
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Carbon disulfide	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	1,1,1-Trichloroethane	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	1,1,2,2-Tetrachloroethane	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	1,1,2-Trichloroethane	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	1,3,5-Trimethylbenzene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	1,1-Dichloroethane	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	1,2,4-Trimethylbenzene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	1,2-Dibromo-3-chloropropane	10	U	10	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	1,2-Dibromoethane	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	1,2-Dichlorobenzene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	1,2-Dichloroethane	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	1,1-Dichloroethene	11		11	J	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Carbon tetrachloride	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	1,2,3-Trichlorobenzene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Chloroethane	2.2	J	2	J	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Trichlorofluoromethane	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Vinyl chloride	19		19	J	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	cis-1,2-Dichloroethene	460		460	J	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	cis-1,3-Dichloropropene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Chlorobenzene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Trichloroethene	310		310	J	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	n-Butylbenzene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Xylene, o	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	sec-Butylbenzene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	tert-Butylbenzene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	trans-1,2-Dichloroethene	3.4	J	3.4	J	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	trans-1,3-Dichloropropene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Propylbenzene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Toluene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Xylenes (m&p)	10	U	10	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Styrene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Tetrachloroethene	850		850	J	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Chloroform	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Chloromethane	3	BJ	5	UJ	SP, BL1	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Cyclohexane	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Dichlorodifluoromethane	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Methylene chloride	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Dibromochloromethane	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Isopropylbenzene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Ethylbenzene	5	U	5	UJ	SP	ug/l	ALSRNY

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ACE CLEANERS
BROCKPORT, NEW YORK

Lab SDG	Lab Sample ID	Field Sample ID	Analysis Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units	Lab ID
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Methyl cyclohexane	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Naphthalene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Acetic acid, methyl ester	10	U	10	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-004	828133-MW113011D	SW8260C	N	Methyl Tertbutyl Ether	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	2-Hexanone	25	U	25	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	1,4-Dichlorobenzene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	1,4-Dioxane	200	U	200	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	2-Butanone	25	U	25	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	4-iso-Propyltoluene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Bromomethane	5	U	5	UJ	SP, CCV%D	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Acetone	25	U	25	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Benzene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Bromochloromethane	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Bromodichloromethane	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Bromoform	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	4-Methyl-2-pentanone	25	U	25	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	1,3,5-Trimethylbenzene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	1,1,1-Trichloroethane	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	1,2-Dichloroethane	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Carbon disulfide	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	1,1,2,2-Tetrachloroethane	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	1,1,2-Trichloroethane	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	1,1-Dichloroethane	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	1,2-Dichloropropane	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	1,1-Dichloroethene	11		11	J	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	1,2,4-Trichlorobenzene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	1,2,4-Trimethylbenzene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	1,2-Dibromo-3-chloropropane	10	U	10	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	1,2-Dibromoethane	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	1,2-Dichlorobenzene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	1,2,3-Trichlorobenzene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Carbon tetrachloride	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	1,3-Dichlorobenzene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Chloroethane	1.9	J	1.9	J	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Trichlorofluoromethane	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Vinyl chloride	23		23	J	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	cis-1,2-Dichloroethene	490		490	J	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	cis-1,3-Dichloropropene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Xylenes (m&p)	10	U	10	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Trichloroethene	310		310	J	SP	ug/l	ALSRNY

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
DATA USABILITY SUMMARY REPORT
OCTOBER AND DECEMBER 2021, APRIL 2022 SAMPLING EVENTS
ACE CLEANERS
BROCKPORT, NEW YORK

Lab SDG	Lab Sample ID	Field Sample ID	Analysis Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units	Lab ID
R2202959	R2202959-005	828133-MW113011	SW8260C	N	n-Butylbenzene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Xylene, o	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	sec-Butylbenzene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	tert-Butylbenzene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	trans-1,2-Dichloroethene	3.3	J	3.3	J	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Chlorobenzene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Propylbenzene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Toluene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	trans-1,3-Dichloropropene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Styrene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Chloroform	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Chloromethane	2.8	BJ	5	UJ	SP, BL1	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Cyclohexane	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Dibromochloromethane	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Tetrachloroethene	780		780	J	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Methylene chloride	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Dichlorodifluoromethane	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Isopropylbenzene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Acetic acid, methyl ester	10	U	10	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Methyl Tertbutyl Ether	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Methyl cyclohexane	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Naphthalene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202959	R2202959-005	828133-MW113011	SW8260C	N	Ethylbenzene	5	U	5	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Bromodichloromethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Bromoform	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Bromomethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Carbon disulfide	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Dibromochloromethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Chlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Chloroethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Chloroform	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Chloromethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Cyclohexane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Carbon tetrachloride	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Bromochloromethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	1,4-Dioxane	40	U	40	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Acetone	5	U	5	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Dichlorodifluoromethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	1,2-Dibromoethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	1,2-Dichlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	1,2-Dichloroethane	1	U	1	UJ	SP	ug/l	ALSRNY

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
DATA USABILITY SUMMARY REPORT
OCTOBER AND DECEMBER 2021, APRIL 2022 SAMPLING EVENTS
ACE CLEANERS
BROCKPORT, NEW YORK

Lab SDG	Lab Sample ID	Field Sample ID	Analysis Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units	Lab ID
R2202960	R2202960-001	828133-MW108008	SW8260C	N	1,2-Dichloropropane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Benzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	1,3,5-Trimethylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	1,4-Dichlorobenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	2-Butanone	5 U		5 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	2-Hexanone	5 U		5 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	4-iso-Propyltoluene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	4-Methyl-2-pentanone	5 U		5 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	1,3-Dichlorobenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Methylene chloride	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	1,1,1-Trichloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Isopropylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	1,1-Dichloroethene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	1,2,3-Trichlorobenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	1,2,4-Trichlorobenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	n-Butylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Propylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Xylene, o	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	sec-Butylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	tert-Butylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	trans-1,2-Dichloroethene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	trans-1,3-Dichloropropene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	1,2-Dibromo-3-chloropropane	2 U		2 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	1,1-Dichloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	1,1,2-Trichloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	1,1,2,2-Tetrachloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Acetic acid, methyl ester	2 U		2 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Methyl Tertbutyl Ether	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Methyl cyclohexane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Naphthalene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Tetrachloroethene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Ethylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Toluene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Trichlorofluoromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Vinyl chloride	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	cis-1,2-Dichloroethene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	cis-1,3-Dichloropropene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Xylenes (m&p)	2 U		2 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Trichloroethene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-001	828133-MW108008	SW8260C	N	1,2,4-Trimethylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
DATA USABILITY SUMMARY REPORT
OCTOBER AND DECEMBER 2021, APRIL 2022 SAMPLING EVENTS
ACE CLEANERS
BROCKPORT, NEW YORK

Lab SDG	Lab Sample ID	Field Sample ID	Analysis Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units	Lab ID
R2202960	R2202960-001	828133-MW108008	SW8260C	N	Styrene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Carbon disulfide	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	1,2-Dibromoethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	1,2-Dibromo-3-chloropropane	2 U		2 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	1,2,4-Trimethylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	1,2,4-Trichlorobenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	1,2,3-Trichlorobenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	1,1-Dichloroethene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	1,1-Dichloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	1,1,2-Trichloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	1,1,2,2-Tetrachloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	1,1,1-Trichloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	1,2-Dichloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	1,2-Dichloropropane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	1,3,5-Trimethylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	1,3-Dichlorobenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Bromoform	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Bromomethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Bromodichloromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Bromochloromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Benzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	trans-1,3-Dichloropropene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Acetone	5 U		5 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	4-iso-Propyltoluene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	2-Hexanone	5 U		5 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	2-Butanone	5 U		5 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	1,4-Dioxane	40 U		40 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	1,4-Dichlorobenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	4-Methyl-2-pentanone	5 U		5 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	trans-1,2-Dichloroethene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	1,2-Dichlorobenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	sec-Butylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Acetic acid, methyl ester	2 U		2 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Isopropylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Ethylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Dichlorodifluoromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Dibromochloromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Methyl Tertbutyl Ether	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Cyclohexane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Chloroform	1 U		1 UJ		SP	ug/l	ALSRNY

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
DATA USABILITY SUMMARY REPORT
OCTOBER AND DECEMBER 2021, APRIL 2022 SAMPLING EVENTS
ACE CLEANERS
BROCKPORT, NEW YORK

Lab SDG	Lab Sample ID	Field Sample ID	Analysis Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units	Lab ID
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Chloroethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	tert-Butylbenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Chlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Carbon tetrachloride	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Chloromethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Methyl cyclohexane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Methylene chloride	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Styrene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Xylene, o	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Propylbenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Naphthalene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Xylenes (m&p)	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	cis-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	cis-1,2-Dichloroethene	1.3		1.3	J	SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	n-Butylbenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Trichlorofluoromethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Trichloroethene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Toluene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Tetrachloroethene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-002	828133-MW104005	SW8260C	N	Vinyl chloride	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Dibromochloromethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Bromodichloromethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Cyclohexane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Chloromethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Chloroform	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Chlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Carbon tetrachloride	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Carbon disulfide	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Bromomethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Bromoform	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Dichlorodifluoromethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Chloroethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Methylene chloride	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Vinyl chloride	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Isopropylbenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	cis-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	cis-1,2-Dichloroethene	0.43	J	0	J	SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Trichlorofluoromethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Trichloroethene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Toluene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Tetrachloroethene	0.33	J	0.33	J	SP	ug/l	ALSRNY

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
DATA USABILITY SUMMARY REPORT
OCTOBER AND DECEMBER 2021, APRIL 2022 SAMPLING EVENTS
ACE CLEANERS
BROCKPORT, NEW YORK

Lab SDG	Lab Sample ID	Field Sample ID	Analysis Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units	Lab ID
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Styrene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Naphthalene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Methyl cyclohexane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Methyl Tertbutyl Ether	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Acetic acid, methyl ester	2 U		2 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Ethylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Benzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Bromochloromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	4-Methyl-2-pentanone	5 U		5 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Acetone	5 U		5 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	1,1,2-Trichloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	1,1,2,2-Tetrachloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	1,1,1-Trichloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	1,1-Dichloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	trans-1,3-Dichloropropene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	tert-Butylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	sec-Butylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Xylene, o	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Propylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	n-Butylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	trans-1,2-Dichloroethene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	1,1-Dichloroethene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	Xylenes (m&p)	2 U		2 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	1,2,4-Trichlorobenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	1,2-Dibromo-3-chloropropane	2 U		2 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	1,2,3-Trichlorobenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	1,2,4-Trimethylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	1,2-Dichlorobenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	1,2-Dichloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	1,2-Dichloropropane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	1,2-Dibromoethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	1,3-Dichlorobenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	1,4-Dichlorobenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	1,4-Dioxane	40 U		40 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	4-iso-Propyltoluene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	2-Butanone	5 U		5 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	1,3,5-Trimethylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-003	828133-GW12008	SW8260C	N	2-Hexanone	5 U		5 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	1,2,3-Trichlorobenzene	2 U		2 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	1,2,4-Trichlorobenzene	2 U		2 UJ		SP	ug/l	ALSRNY

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
DATA USABILITY SUMMARY REPORT
OCTOBER AND DECEMBER 2021, APRIL 2022 SAMPLING EVENTS
ACE CLEANERS
BROCKPORT, NEW YORK

Lab SDG	Lab Sample ID	Field Sample ID	Analysis Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units	Lab ID
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	1,4-Dioxane	80	U	80	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	2-Hexanone	10	U	10	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	4-iso-Propyltoluene	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	4-Methyl-2-pentanone	10	U	10	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	1,1-Dichloroethene	0.64	J	0.64	J	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Acetone	10	U	10	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	2-Butanone	10	U	10	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	1,1-Dichloroethane	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	1,3,5-Trimethylbenzene	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	1,1,2-Trichloroethane	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	1,2,4-Trimethylbenzene	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	1,2-Dibromoethane	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	1,2-Dichlorobenzene	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	1,2-Dichloroethane	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	1,2-Dichloropropane	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	1,3-Dichlorobenzene	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	1,4-Dichlorobenzene	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	1,1,1-Trichloroethane	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	1,1,2,2-Tetrachloroethane	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Benzene	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Bromodichloromethane	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Bromoform	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Toluene	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Trichloroethene	4.8		5	J	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Trichlorofluoromethane	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Vinyl chloride	6.7		6.7	J	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	cis-1,2-Dichloroethene	160		160	J	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	cis-1,3-Dichloropropene	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Tetrachloroethene	4.3		4.3	J	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Xylenes (m&p)	4	U	4	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Propylbenzene	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Xylene, o	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	sec-Butylbenzene	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	tert-Butylbenzene	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	trans-1,2-Dichloroethene	2	J	2	J	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	trans-1,3-Dichloropropene	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	n-Butylbenzene	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Bromochloromethane	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Styrene	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Methyl cyclohexane	2	U	2	UJ	SP	ug/l	ALSRNY

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ACE CLEANERS
BROCKPORT, NEW YORK

Lab SDG	Lab Sample ID	Field Sample ID	Analysis Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units	Lab ID
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Bromomethane	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Carbon disulfide	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Carbon tetrachloride	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Chlorobenzene	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Chloroethane	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Chloroform	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Naphthalene	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Cyclohexane	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Dichlorodifluoromethane	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Methylene chloride	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Ethylbenzene	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Isopropylbenzene	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Acetic acid, methyl ester	4	U	4	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Methyl Tertbutyl Ether	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Dibromochloromethane	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	Chloromethane	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-004	828133-MW12D015	SW8260C	N	1,2-Dibromo-3-chloropropane	4	U	4	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	cis-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	1,4-Dioxane	40	U	40	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	1,4-Dichlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	1,3-Dichlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	1,3,5-Trimethylbenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	1,2-Dichloropropane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	1,2-Dichloroethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	1,2-Dichlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	1,2-Dibromoethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	1,2-Dibromo-3-chloropropane	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	1,2,4-Trimethylbenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	1,2,4-Trichlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	2-Butanone	5	U	5	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	2-Hexanone	5	U	5	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	4-iso-Propyltoluene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	4-Methyl-2-pentanone	5	U	5	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Chloroform	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Chloromethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Chloroethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Chlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Carbon tetrachloride	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	1,2,3-Trichlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Carbon disulfide	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Bromoform	1	U	1	UJ	SP	ug/l	ALSRNY

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
DATA USABILITY SUMMARY REPORT
OCTOBER AND DECEMBER 2021, APRIL 2022 SAMPLING EVENTS
ACE CLEANERS
BROCKPORT, NEW YORK

Lab SDG	Lab Sample ID	Field Sample ID	Analysis Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units	Lab ID
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Bromodichloromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Bromochloromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Benzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Acetone	5.6		5.6 J		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Bromomethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	1,1-Dichloroethene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Cyclohexane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Toluene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Tetrachloroethene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Styrene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	1,1-Dichloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Methyl cyclohexane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Methyl Tertbutyl Ether	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Acetic acid, methyl ester	2 U		2 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Isopropylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Ethylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Methylene chloride	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Dibromochloromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Trichloroethene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Trichlorofluoromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Naphthalene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	cis-1,2-Dichloroethene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	1,1,2-Trichloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Vinyl chloride	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	1,1,2,2-Tetrachloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	1,1,1-Trichloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	trans-1,3-Dichloropropene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	tert-Butylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	trans-1,2-Dichloroethene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Xylene, o	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Propylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	n-Butylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Xylenes (m&p)	2 U		2 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	Dichlorodifluoromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-007	828133-MW105007	SW8260C	N	sec-Butylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	1,2,3-Trichlorobenzene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	1,1-Dichloroethane	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	1,1-Dichloroethene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	1,2,4-Trichlorobenzene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	1,3,5-Trimethylbenzene	250 U		250 UJ		SP	ug/l	ALSRNY

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
DATA USABILITY SUMMARY REPORT
OCTOBER AND DECEMBER 2021, APRIL 2022 SAMPLING EVENTS
ACE CLEANERS
BROCKPORT, NEW YORK

Lab SDG	Lab Sample ID	Field Sample ID	Analysis Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units	Lab ID
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	1,2-Dibromo-3-chloropropane	500 U		500 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	1,2-Dibromoethane	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	1,2-Dichlorobenzene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	1,2-Dichloroethane	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	1,2-Dichloropropane	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	1,2,4-Trimethylbenzene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	tert-Butylbenzene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	1,1,2,2-Tetrachloroethane	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	trans-1,3-Dichloropropene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	trans-1,2-Dichloroethene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	1,4-Dichlorobenzene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	sec-Butylbenzene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Xylene, o	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	1,1,2-Trichloroethane	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Propylbenzene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Xylenes (m&p)	500 U		500 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	cis-1,3-Dichloropropene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	cis-1,2-Dichloroethene	1,800		1,800 J		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Vinyl chloride	200 J		200 J		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Trichlorofluoromethane	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	n-Butylbenzene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	1,4-Dioxane	10,000 U		10,000 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	1,1,1-Trichloroethane	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	2-Hexanone	1,300 U		1,300 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Dichlorodifluoromethane	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Methylene chloride	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Ethylbenzene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Isopropylbenzene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Acetic acid, methyl ester	500 U		500 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	2-Butanone	1,300 U		1,300 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Methyl Tertbutyl Ether	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Naphthalene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Styrene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Tetrachloroethene	43,000		43,000 J		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Toluene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Trichloroethene	1,400		1,400 J		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Methyl cyclohexane	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Dibromochloromethane	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	1,3-Dichlorobenzene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Chloromethane	250 U		250 UJ		SP	ug/l	ALSRNY

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ACE CLEANERS
BROCKPORT, NEW YORK

Lab SDG	Lab Sample ID	Field Sample ID	Analysis Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units	Lab ID
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Chloroform	250		250 J		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Chloroethane	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Chlorobenzene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Carbon tetrachloride	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Carbon disulfide	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Bromomethane	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Cyclohexane	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Bromodichloromethane	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Bromochloromethane	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Benzene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Acetone	1,300 U		1,300 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	4-Methyl-2-pentanone	1,300 U		1,300 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	Bromoform	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-008	828133-MW100008D	SW8260C	N	4-iso-Propyltoluene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	trans-1,3-Dichloropropene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	1,2,4-Trichlorobenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	1,2,4-Trimethylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	1,2-Dibromoethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	trans-1,2-Dichloroethene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	1,2-Dichlorobenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	1,2-Dichloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	1,2-Dichloropropane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	1,2-Dibromo-3-chloropropane	2 U		2 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	tert-Butylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Propylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Xylene, o	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	1,1,1-Trichloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	1,1,2,2-Tetrachloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	1,1,2-Trichloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	1,1-Dichloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	1,3,5-Trimethylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	1,2,3-Trichlorobenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Xylenes (m&p)	2 U		2 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	n-Butylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	sec-Butylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	1,1-Dichloroethene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	1,3-Dichlorobenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	1,4-Dioxane	40 U		40 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Ethylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Isopropylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
DATA USABILITY SUMMARY REPORT
OCTOBER AND DECEMBER 2021, APRIL 2022 SAMPLING EVENTS
ACE CLEANERS
BROCKPORT, NEW YORK

Lab SDG	Lab Sample ID	Field Sample ID	Analysis Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units	Lab ID
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Acetic acid, methyl ester	2 U		2 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Methyl Tertbutyl Ether	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Methyl cyclohexane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Naphthalene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Methylene chloride	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Styrene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Toluene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Trichloroethene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Trichlorofluoromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Vinyl chloride	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	cis-1,2-Dichloroethene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	cis-1,3-Dichloropropene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Tetrachloroethene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	1,4-Dichlorobenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Dichlorodifluoromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Cyclohexane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	2-Butanone	5 U		5 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	2-Hexanone	5 U		5 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	4-iso-Propyltoluene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	4-Methyl-2-pentanone	5 U		5 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Acetone	5 U		5 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Bromochloromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Dibromochloromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Bromodichloromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Bromomethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Carbon disulfide	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Carbon tetrachloride	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Chlorobenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Chloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Chloroform	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Chloromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Bromoform	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-009	828133-GW8008	SW8260C	N	Benzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	1,1,2,2-Tetrachloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	1,1,2-Trichloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	2-Hexanone	5 U		5 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Xylene, o	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	sec-Butylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	tert-Butylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	trans-1,2-Dichloroethene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	trans-1,3-Dichloropropene	1 U		1 UJ		SP	ug/l	ALSRNY

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
DATA USABILITY SUMMARY REPORT
OCTOBER AND DECEMBER 2021, APRIL 2022 SAMPLING EVENTS
ACE CLEANERS
BROCKPORT, NEW YORK

Lab SDG	Lab Sample ID	Field Sample ID	Analysis Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units	Lab ID
R2202960	R2202960-011	828133-MW109007	SW8260C	N	1,1,1-Trichloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Propylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Cyclohexane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Chloroform	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Chloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Chlorobenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Carbon tetrachloride	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Carbon disulfide	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Bromomethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Chloromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Bromoform	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	n-Butylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	cis-1,3-Dichloropropene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Methylene chloride	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Ethylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Isopropylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Acetic acid, methyl ester	2 U		2 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Methyl Tertbutyl Ether	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Methyl cyclohexane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Xylenes (m&p)	2 U		2 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Naphthalene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Tetrachloroethene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Toluene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Trichloroethene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Trichlorofluoromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Vinyl chloride	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	cis-1,2-Dichloroethene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Styrene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Bromodichloromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Bromochloromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Benzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	1,2-Dibromoethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	1,2-Dibromo-3-chloropropane	2 U		2 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	1,2,4-Trimethylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	1,2-Dichlorobenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	1,2,4-Trichlorobenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	1,1-Dichloroethene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	1,1-Dichloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Dichlorodifluoromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	1,2-Dichloroethane	1 U		1 UJ		SP	ug/l	ALSRNY

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
DATA USABILITY SUMMARY REPORT
OCTOBER AND DECEMBER 2021, APRIL 2022 SAMPLING EVENTS
ACE CLEANERS
BROCKPORT, NEW YORK

Lab SDG	Lab Sample ID	Field Sample ID	Analysis Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units	Lab ID
R2202960	R2202960-011	828133-MW109007	SW8260C	N	1,2,3-Trichlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	1,3,5-Trimethylbenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	1,2-Dichloropropane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Acetone	5	U	5	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	4-Methyl-2-pentanone	5	U	5	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	4-iso-Propyltoluene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	Dibromochloromethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	2-Butanone	5	U	5	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	1,4-Dioxane	40	U	40	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	1,4-Dichlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-011	828133-MW109007	SW8260C	N	1,3-Dichlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Trichloroethene	0.73	J	0.73	J	SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Trichlorofluoromethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Vinyl chloride	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	cis-1,2-Dichloroethene	4.3		4.3	J	SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	cis-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Xylenes (m&p)	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Propylbenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Toluene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Xylene, o	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	sec-Butylbenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	trans-1,2-Dichloroethene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	trans-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	n-Butylbenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	tert-Butylbenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	1,1,2,2-Tetrachloroethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	4-Methyl-2-pentanone	5	U	5	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	4-iso-Propyltoluene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	2-Hexanone	5	U	5	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	2-Butanone	0.86	J	0.86	J	SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	1,4-Dioxane	40	U	40	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	1,4-Dichlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	1,1,1-Trichloroethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	1,3-Dichlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	1,3,5-Trimethylbenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	1,2-Dichloropropane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	1,2-Dichloroethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	1,1-Dichloroethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	1,1-Dichloroethene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	1,2,3-Trichlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
DATA USABILITY SUMMARY REPORT
OCTOBER AND DECEMBER 2021, APRIL 2022 SAMPLING EVENTS
ACE CLEANERS
BROCKPORT, NEW YORK

Lab SDG	Lab Sample ID	Field Sample ID	Analysis Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units	Lab ID
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Acetone	6.1		6.1 J		SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	1,2,4-Trichlorobenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	1,2-Dibromo-3-chloropropane	2 U		2 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	1,2-Dibromoethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	1,2-Dichlorobenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	1,2,4-Trimethylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Benzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	1,1,2-Trichloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Bromodichloromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Isopropylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Chloromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Ethylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Acetic acid, methyl ester	2 U		2 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Methylene chloride	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Dibromochloromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Cyclohexane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Bromochloromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Dichlorodifluoromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Methyl cyclohexane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Methyl Tertbutyl Ether	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Carbon tetrachloride	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Styrene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Tetrachloroethene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Chloroform	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Chloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Chlorobenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Naphthalene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Carbon disulfide	9		9 J		SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Bromomethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-012	828133-MW101008	SW8260C	N	Bromoform	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Methylene chloride	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Dichlorodifluoromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Ethylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Methyl cyclohexane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Acetic acid, methyl ester	2 U		2 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Methyl Tertbutyl Ether	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Dibromochloromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Isopropylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Cyclohexane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Bromochloromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Chloroform	1 U		1 UJ		SP	ug/l	ALSRNY

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
DATA USABILITY SUMMARY REPORT
OCTOBER AND DECEMBER 2021, APRIL 2022 SAMPLING EVENTS
ACE CLEANERS
BROCKPORT, NEW YORK

Lab SDG	Lab Sample ID	Field Sample ID	Analysis Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units	Lab ID
R2202960	R2202960-013	828133-MW106007	SW8260C	N	4-Methyl-2-pentanone	5	U	5	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Naphthalene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Bromodichloromethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Bromoform	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Bromomethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Carbon disulfide	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Carbon tetrachloride	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Chlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Chloroethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Chloromethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Styrene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Vinyl chloride	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Toluene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	1,2,4-Trichlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	1,2,4-Trimethylbenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	1,2-Dibromo-3-chloropropane	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	1,2-Dibromoethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	1,2-Dichlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	1,2-Dichloroethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	1,2,3-Trichlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	1,2-Dichloropropane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	1,3-Dichlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	1,4-Dichlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	1,4-Dioxane	40	U	40	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	2-Butanone	5	U	5	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	2-Hexanone	5	U	5	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	4-iso-Propyltoluene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	1,3,5-Trimethylbenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Tetrachloroethene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	1,1-Dichloroethene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Trichloroethene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Trichlorofluoromethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	cis-1,2-Dichloroethene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	cis-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Xylenes (m&p)	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	n-Butylbenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	1,1-Dichloroethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Propylbenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	sec-Butylbenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	tert-Butylbenzene	1	U	1	UJ	SP	ug/l	ALSRNY

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
DATA USABILITY SUMMARY REPORT
OCTOBER AND DECEMBER 2021, APRIL 2022 SAMPLING EVENTS
ACE CLEANERS
BROCKPORT, NEW YORK

Lab SDG	Lab Sample ID	Field Sample ID	Analysis Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units	Lab ID
R2202960	R2202960-013	828133-MW106007	SW8260C	N	trans-1,2-Dichloroethene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	trans-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	1,1,2,2-Tetrachloroethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	1,1,2-Trichloroethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Xylene, o	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	1,1,1-Trichloroethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Benzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-013	828133-MW106007	SW8260C	N	Acetone	5	U	5	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Carbon tetrachloride	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	1,4-Dioxane	40	U	40	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	2-Butanone	5	U	5	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	2-Hexanone	5	U	5	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	4-iso-Propyltoluene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	4-Methyl-2-pentanone	5	U	5	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Acetone	5	U	5	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Benzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Bromochloromethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Bromodichloromethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Bromoform	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Bromomethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	1,4-Dichlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	1,3-Dichlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	1,3,5-Trimethylbenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	1,2-Dichloropropane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	1,1,2-Trichloroethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	1,1-Dichloroethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	1,1-Dichloroethene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	1,2,3-Trichlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	1,2,4-Trichlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	1,2,4-Trimethylbenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	1,2-Dibromo-3-chloropropane	2	U	2	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	1,2-Dibromoethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	1,2-Dichlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	1,2-Dichloroethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Carbon disulfide	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Chlorobenzene	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Chloroethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Chloroform	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Trichlorofluoromethane	1	U	1	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Vinyl chloride	0.2	J	0.2	J	SP	ug/l	ALSRNY

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ACE CLEANERS
BROCKPORT, NEW YORK

Lab SDG	Lab Sample ID	Field Sample ID	Analysis Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units	Lab ID
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	cis-1,2-Dichloroethene	2		2 J		SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	cis-1,3-Dichloropropene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Xylenes (m&p)	2 U		2 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Trichloroethene	3.4		3.4 J		SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	n-Butylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Xylene, o	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	sec-Butylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	tert-Butylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	trans-1,2-Dichloroethene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	trans-1,3-Dichloropropene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Propylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	1,1,2,2-Tetrachloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Toluene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Styrene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Chloromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Cyclohexane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Dibromochloromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Dichlorodifluoromethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Tetrachloroethene	84		84 J		SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Methylene chloride	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Isopropylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Acetic acid, methyl ester	2 U		2 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Methyl Tertbutyl Ether	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Methyl cyclohexane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Naphthalene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	Ethylbenzene	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-016	828133-MW101D015	SW8260C	N	1,1,1-Trichloroethane	1 U		1 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Bromodichloromethane	100 U		100 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Bromoform	100 U		100 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Bromomethane	100 U		100 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Styrene	100 U		100 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Tetrachloroethene	9,500		9,500 J		SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Toluene	100 U		100 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Trichloroethene	1,400		1,400 J		SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Trichlorofluoromethane	100 U		100 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Vinyl chloride	100 U		100 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	cis-1,2-Dichloroethene	330		330 J		SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	cis-1,3-Dichloropropene	100 U		100 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Xylenes (m&p)	200 U		200 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	n-Butylbenzene	100 U		100 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Propylbenzene	100 U		100 UJ		SP	ug/l	ALSRNY

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
DATA USABILITY SUMMARY REPORT
OCTOBER AND DECEMBER 2021, APRIL 2022 SAMPLING EVENTS
ACE CLEANERS
BROCKPORT, NEW YORK

Lab SDG	Lab Sample ID	Field Sample ID	Analysis Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units	Lab ID
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Methyl cyclohexane	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Xylene, o	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Methyl Tertbutyl Ether	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Isopropylbenzene	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Carbon disulfide	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Carbon tetrachloride	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Chlorobenzene	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Chloroethane	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Chloroform	100		100	J	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Chloromethane	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Cyclohexane	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Dibromochloromethane	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Dichlorodifluoromethane	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Methylene chloride	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Ethylbenzene	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Acetic acid, methyl ester	200	U	200	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	sec-Butylbenzene	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Naphthalene	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	trans-1,2-Dichloroethene	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Acetone	500	U	500	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	4-Methyl-2-pentanone	500	U	500	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	4-iso-Propyltoluene	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	2-Hexanone	500	U	500	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	2-Butanone	500	U	500	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	1,4-Dioxane	4,000	U	4,000	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	1,4-Dichlorobenzene	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	1,3-Dichlorobenzene	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	1,3,5-Trimethylbenzene	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	1,2-Dichloropropane	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	tert-Butylbenzene	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Benzene	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	1,2-Dichloroethane	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	Bromochloromethane	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	1,2-Dibromoethane	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	1,2-Dichlorobenzene	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	1,1,1-Trichloroethane	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	1,1,2,2-Tetrachloroethane	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	1,1,2-Trichloroethane	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	1,1-Dichloroethane	100	U	100	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	trans-1,3-Dichloropropene	100	U	100	UJ	SP	ug/l	ALSRNY

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ACE CLEANERS
BROCKPORT, NEW YORK

Lab SDG	Lab Sample ID	Field Sample ID	Analysis Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units	Lab ID
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	1,2,3-Trichlorobenzene	100 U		100 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	1,2,4-Trichlorobenzene	100 U		100 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	1,2,4-Trimethylbenzene	100 U		100 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	1,2-Dibromo-3-chloropropane	200 U		200 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-017	828133-MW100D018	SW8260C	N	1,1-Dichloroethene	100 U		100 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	1,3-Dichlorobenzene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	1,4-Dichlorobenzene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	1,4-Dioxane	10,000 U		10,000 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Bromodichloromethane	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	2-Butanone	1,300 U		1,300 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	4-Methyl-2-pentanone	1,300 U		1,300 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	4-iso-Propyltoluene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Acetone	1,300 U		1,300 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Benzene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Bromochloromethane	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	1,3,5-Trimethylbenzene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	2-Hexanone	1,300 U		1,300 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	1,2-Dichloropropane	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	1,2,4-Trichlorobenzene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	1,2-Dichlorobenzene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Bromoform	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	1,1,1-Trichloroethane	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	1,1,2,2-Tetrachloroethane	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	1,1,2-Trichloroethane	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	1,1-Dichloroethane	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	1,1-Dichloroethene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	1,2,3-Trichlorobenzene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	1,2,4-Trimethylbenzene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	1,2-Dibromo-3-chloropropane	500 U		500 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	1,2-Dibromoethane	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	1,2-Dichloroethane	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Bromomethane	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	trans-1,2-Dichloroethene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Carbon tetrachloride	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Toluene	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Trichloroethene	1,500		1,500 J		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Trichlorofluoromethane	250 U		250 UJ		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Vinyl chloride	210 J		210 J		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	cis-1,2-Dichloroethene	2,300		2,300 J		SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Tetrachloroethene	40,000		40,000 J		SP	ug/l	ALSRNY

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R2202960	R2202960-018	828133-MW100008	SW8260C	N	cis-1,3-Dichloropropene	250	U	250	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	n-Butylbenzene	250	U	250	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Propylbenzene	250	U	250	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Xylene, o	250	U	250	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	tert-Butylbenzene	250	U	250	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	trans-1,3-Dichloropropene	250	U	250	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Xylenes (m&p)	500	U	500	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Carbon disulfide	250	U	250	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Styrene	250	U	250	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Methyl cyclohexane	250	U	250	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Chlorobenzene	250	U	250	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Chloroethane	250	U	250	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Chloroform	260		260	J	SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Chloromethane	250	U	250	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Cyclohexane	250	U	250	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Naphthalene	250	U	250	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Dibromochloromethane	250	U	250	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Methylene chloride	250	U	250	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Ethylbenzene	250	U	250	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Isopropylbenzene	250	U	250	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Acetic acid, methyl ester	500	U	500	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Methyl Tertbutyl Ether	250	U	250	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	Dichlorodifluoromethane	250	U	250	UJ	SP	ug/l	ALSRNY
R2202960	R2202960-018	828133-MW100008	SW8260C	N	sec-Butylbenzene	250	U	250	UJ	SP	ug/l	ALSRNY

ATTACHMENT A
SUMMARY OF VALIDATION QC LIMITS FOR SURROGATES, SPIKES, AND DUPLICATES
BASED ON THE REGION 2 VALIDATION GUIDELINES

PARAMETER	QC TEST	ANALYTE	Soil	Soil	WATER	Water
			(%R)	(RPD)	(%R)	(RPD)
Volatiles	Surrogate	All Surrogate Compounds	70 - 130		80 - 120	
	LCS	All Target Compounds	70 - 130		70 - 130	
	MS/MSD	All Target Compounds	70 - 130	35	70 - 130	20
	Field Duplicate	All Target Compounds		100		50

Notes:

(1) For PFAS, surrogate = extracted isotope dilution standard

LCS - Laboratory Control Sample

MS/MSD - Matrix spike/ Matrix Spike Duplicate

RPD = Relative percent difference

%R = percent recovery

QC Limits are based on USEPA Region II Data Validation Guidelines and Project QA/QC Objectives

**DATA USABILITY SUMMARY REPORT
OCTOBER AND DECEMBER 2021, AND APRIL 2022 GROUNDWATER SAMPLING
ACE CLEANER'S SITE
BROCKPORT, NEW YORK**

ATTACHMENT B

VOCs

NYSDEC DUSR PROJECT CHEMIST REVIEW RECORD

Project: Ace Cleaners October 2021

Method: 8260C

Laboratory: ALS

SDG(s): R2110341

Date: 12/10/2021

Reviewer: Gabrielle Davis

Review Level ☒ NYSDEC DUSR

☐ USEPA Region II Guideline

1. ☒ **Case Narrative Review and COC/Data Package Completeness**

COMMENTS

Were problems noted? yes, see attached

See attached - sample ID on COC

Are Field Sample IDs and Locations assigned correctly? YES NO (circle one)

incorrect - lab reported correct one

Were all the samples on the COC analyzed for the requested analyses? YES NO (circle one)

2. ☒ **Holding time and Sample Collection**

All samples were analyzed within the 14 day holding time. YES NO (circle one) See attached - no quals

3. ☒ **QC Blanks**

Are method blanks free of contamination? YES NO (circle one)

Are Trip blanks free of contamination? YES NO (circle one)

Are Rinse blanks free of contamination? YES NO NA (circle one)

4. ☒ **Instrument Tuning – Data Package Narrative Review**

Did the laboratory narrative identify any results that were not within method criteria? YES NO (circle one)

If yes, use professional judgment to evaluate data and qualify results if needed

5. ☒ **Instrument Calibration – Data Package Narrative Review**

Did the laboratory narrative identify compounds that were not within criteria in the initial and/or continuing calibration standards? YES NO (circle one) See attached

Initial Calibration %RSD = 20% (30% for 1,1-DCE, chloroform, 1,2-DCP, toluene, ethylbenzene, VC)

Initial Avg RRF and Continuing RRF should be ≥ 0.05 and 0.10 for Chloromethane, 1,1-Dichloroethane, Bromoform and 0.30 for Chlorobenzene and 1,1,2,2-Tetrachloroethane

Continuing Calibration %D = 20%

Did the laboratory qualify results based on initial or continuing calibration exceedances? YES NO

If yes to above, use professional judgment to evaluate data and qualify results if needed

6. ☒ **Internal Standards – Data Package Narrative Review**

(Area Limits = -50% to +100%, RTs within 30 seconds of daily CCAL standard (or ICAL mid-point if samples follow ICAL))

Did the laboratory narrative identify any sample internal standards that were not within criteria? YES NO (circle one)

Did the laboratory qualify results based on internal standard exceedances? YES NO

If yes to above, use professional judgment to evaluate data and qualify results if needed

7. ☒ **Surrogate Recovery - Region II limits (water 80-120%, soil 70-130%)**

Were all results within Region II limits? YES NO (circle one)

8. ☒ **Matrix Spike - Region II limits (water and soil 70-130%, water RPD 20, soil RPD 35)**

Were MS/MSDs submitted/analyzed? YES NO

Were all results within the Region II limits? YES NO NA (circle one)

GTD

9. ☒ **Duplicates** - Region II Limits (water RPD 50, soil RPD 100)
Were Field Duplicates submitted/analyzed? **YES** NO
Were all results within Region II limits? (soil RPD<100, water RPD<50) **YES** NO NA
10. ☒ **Laboratory Control Sample Results** - Region II (Water and soil 70-130%)
Were all results were within Region II control limits? YES **NO** (circle one) **See attached - UJ, LCSL**
11. ☒ **Reporting Limits:** Were samples analyzed at a dilution? **YES** NO (circle one)
MW113 - 25X, MW114 and MW114-DUP - 20X, GW14D - 2.5X, GW14 - 10X - elevated RL provided for NDs
12. ☒ **Raw Data Review and Calculation Checks**
See attached for calculation checks - no ICAL levels provided- assuming ICAL summary is correct
13. ☒ **Electronic Data Review and Edits**
Does the EDD match the Form Is? **YES** NO (circle one)
14. ☒ **Tables and TIC Review**
Table 1 (Samples and Analytical Methods)
Table 2 (Analytical Results)
Table 3 (Qualification Actions)
Were all tables produced and reviewed? **YES** NO (circle one)
Table 4 (TICs) Did lab report TICs? YES **NO** (circle one)

GTD

Client: Wood E&IS - Portland ME
Project: Ace Cleaners
Sample Matrix: Water

Service Request: R2110341
Date Received: 10/04/2021

CASE NARRATIVE

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

Sample Receipt:

Six water samples were received for analysis at ALS Environmental on 10/04/2021. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

Method 9034, R2110341-002: The Method Reporting Limit (MRL) was elevated due to color and reactivity of sample. Method 9056A: The analysis of one or more samples was initially attempted within holding time but was not useable due to an analytical system or QC failure. Efforts were made to reanalyze the sample(s) as soon as possible after the analytical system was back in control. However, the reanalysis of the sample(s) was performed past the recommended holding time. The results from the reanalysis are reported. The data is flagged to indicate the holding time exceedance. **Only completeness check**

Subcontracted Analytical Parameters:

No significant anomalies were noted with this analysis.

Volatiles by GC:

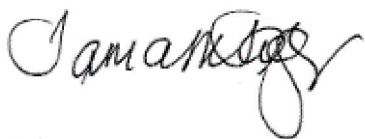
No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 8260C, 10/13/2021: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

See attached for CCV review

GTD



Approved by _____

Date 11/09/2021

Client: Wood E&IS - Portland ME
Project: Ace Cleaners/3616206125

Service Request: R2110341

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2110341-001	✓ 828133-MW113-100421	10/4/2021	0910
R2110341-002	✓ 828133-MW114-100421	10/4/2021	1125
R2110341-003	✓ 828133-MW14D-100421	10/4/2021	1325
R2110341-004	✓ 828133-GW14-100421	10/4/2021	1345
R2110341-005	✓ 828133-TB-100421	10/4/2021	1720
R2110341-006	✓ 828133-MW114-100421-Dup	10/4/2021	1125

GTD



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM 061318

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

Project Name ACE Cleaner		Project Number 3616206125		ANALYSIS REQUESTED (Include Method Number and Container Preservative)													
Project Manager Chuck Staples		Report OC		PRESERVATIVE	1	2	3	4	5	6	7	8	9	10	11	12	
Company/Address 511 Congress St Portland ME 04101																	
Phone # 207 450-9772		Email Charles.Staples@woodplc.com															
Sampler's Signature [Signature]		Sampler's Print Name Ben Paulus															
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	DATE	SAMPLING TIME	MATRIX	GCMS VOCs 8260 • 824 • CLP	GCMS SVOCs 8270 • 825	GC VOCs 8270 • 825	PESTICIDES 8081 • 801/802	PCBs 8082 • 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	Risk (List in comments below)	Risk CO2 S.m.i.	ToC S.L.D.	Alkalinity C1504 N03	REMARKS/ ALTERNATE DESCRIPTION	
828133-MW115-100421		10/04/21	0910	GW	19	X											
828133-MW114-100421		10/04/21	1125	GW	19	X											
828133-GW145-100421	incorrect	10/04/21	1325	GW	19	X											
828133-GW141-100421		10/04/21	1345	GW	25	X											MS/MSD included
828133-TB-100421		9/24/21	1720	TB	3	X											
828133-MW114-100421-DUP		10/04/21	1125	GW	3	X											
SPECIAL INSTRUCTIONS/COMMENTS Metals Fe, Mn																	
INVOICE INFORMATION PO # 3616206125 BILL TO: Charles Staples 511 Congress St Portland ME 04101																	
REPORT REQUIREMENTS I. Results Only II. Results + OC Summaries (LCS, DUP, MS/MSD as required) III. Results + OC and Calibration Summaries IV. Data Validation Report with Raw Data Edata Yes No																	
TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day 2 day 3 day 4 day 5 day Standard (10 business days-No Surcharge) REQUESTED REPORT DATE																	
STATE WHERE SAMPLES WERE COLLECTED NY																	
RELINQUISHED BY Signature [Signature] Printed Name Ben Paulus Firm ALS Date/Time 10/04/21 17:15		RECEIVED BY Signature [Signature] Printed Name Ben Paulus Firm ALS Date/Time 10/04/21 17:15		RELINQUISHED BY Signature Printed Name Firm Date/Time		RECEIVED BY Signature Printed Name Firm Date/Time		RELINQUISHED BY Signature Printed Name Firm Date/Time		RECEIVED BY Signature Printed Name Firm Date/Time		RELINQUISHED BY Signature Printed Name Firm Date/Time		RECEIVED BY Signature Printed Name Firm Date/Time		RELINQUISHED BY Signature Printed Name Firm Date/Time	
R2110341 Wood E&S - Portland ME Ace Cleaners Barcode																	



No temp quals - temperature taken on day of collection -
no time to come to temperature

R2110341

Wood E&S - Portland ME
Ace Cleaners

5

Cooler Receipt and Preservation Check Form

Project/Client ACE Cleaners Folder Number _____

Cooler received on 10/4/21 by: MM

COURIER: ALS UPS FEDEX VELOCITY CLIENT

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

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

8. Temperature Readings Date: 10/4/21 Time: 17:35 ID: IR#7 R#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>14.4</u>						
Within 0-6°C?	<u>Y</u> <u>N</u>	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

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

All samples held in storage location: R/room by MM on 10/4/21 at 17:55
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 10/5/21 Time: 1306 by: Q

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

pH	Lot of test paper	Reagent	Preserved?	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH		<u>214719</u>					
≤2	<u>203419</u>	HNO ₃	✓	<u>8/121021</u>					
≤2		H ₂ SO ₄	✓	<u>1FJ0053</u>					
<4		NaHSO ₄							
5-9		For 608pest		No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522		If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃							
		ZnAcetate	- -	<u>216303</u>					
		HCl	** **						

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

Bottle lot numbers: 1-027-008 2596 21-09-10 21-08-19 12121-21111

Explain all Discrepancies/ Other Comments:

Ice on bottom

QC on VOC's only Rec'd

* All alk bottles, 828133-6W14-100421 RSK 3 vials & RSK-CO₂ 51ml
3 vials, 828133-MW114-100421 8260 2 vials & RSK-CO₂ 51ml
3 vials, 828133-MW114-100421-DUP 8260 1 vial 313 headspace

HPRD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Still 1 vial with no headspace - no quals

Labels secondary reviewed by: Q
PC Secondary Review: MM 10/19/21

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

GTD

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners/3616206125
Sample Matrix: Water

Service Request: R2110341
Date Analyzed: 10/13/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2112949-03

70-130

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	17.8	20.0	89	75-125
1,1,2,2-Tetrachloroethane	8260C	22.0	20.0	110	78-126
1,1,2-Trichloroethane	8260C	20.3	20.0	102	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	17.8	20.0	89	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	17.9	20.0	90	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	19.2	20.0	96	71-118
1,2,3-Trichlorobenzene	8260C	21.6	20.0	108	67-136
1,2,4-Trichlorobenzene	8260C	21.3	20.0	107	75-132
1,2,4-Trimethylbenzene	8260C	20.5	20.0	102	81-126
1,2-Dibromo-3-chloropropane (DBCP)	8260C	21.6	20.0	108	55-136
1,2-Dibromoethane	8260C	20.8	20.0	104	82-127
1,2-Dichlorobenzene	8260C	20.7	20.0	104	80-119
1,2-Dichloroethane	8260C	16.9	20.0	84	71-127
1,2-Dichloropropane	8260C	17.8	20.0	89	80-119
1,3,5-Trimethylbenzene	8260C	20.4	20.0	102	81-128
1,3-Dichlorobenzene	8260C	19.8	20.0	99	83-121
1,4-Dichlorobenzene	8260C	19.1	20.0	96	79-119
1,4-Dioxane	8260C	372	400	93	44-154
2-Butanone (MEK) UJ, LCSL	8260C	12.9	20.0	64	61-137
2-Hexanone	8260C	16.0	20.0	80	63-124
4-Isopropyltoluene	8260C	20.4	20.0	102	78-133
4-Methyl-2-pentanone	8260C	15.5	20.0	78	66-124
Acetone UJ, LCSL	8260C	12.3	20.0	62	40-161
Benzene	8260C	19.2	20.0	96	79-119
Bromochloromethane	8260C	20.6	20.0	103	81-126
Bromodichloromethane	8260C	18.5	20.0	93	81-123
Bromoform	8260C	21.0	20.0	105	65-146
Bromomethane	8260C	21.1	20.0	105	42-166
Carbon Disulfide	8260C	22.8	20.0	114	66-128
Carbon Tetrachloride	8260C	18.3	20.0	91	70-127
Chlorobenzene	8260C	20.6	20.0	103	80-121
Chloroethane	8260C	19.9	20.0	99	62-131
Chloroform	8260C	18.4	20.0	92	79-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners/3616206125

Service Request: R2110341
Date Analyzed: 10/13/21 10:54

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
File ID: I:\ACQUDATA\msvoa12\Data\101321\K7814.D\
Signal ID: 1

Calibration Date: 9/2/2021
Calibration ID: RC2100117
Analysis Lot: 742295
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	45.2	0.8006	0.7237	-9.6	NA	±20	Average RF
1,1,2,2-Tetrachloroethane	50.0	51.6	1.0518	1.0861	3.3	NA	±20	Average RF
1,1,2-Trichloroethane	50.0	49.6	0.3391	0.3363	-0.9	NA	±20	Average RF
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.5	0.4749	0.4701	-1.0	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	44.3	1.0007	0.8857	-11.5	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	50.0	0.4863	0.4865	0.1	NA	±20	Average RF
1,2,3-Trichlorobenzene	50.0	53.3	1.2274	1.3088	6.6	NA	±20	Average RF
1,2,4-Trichlorobenzene	50.0	53.7	1.2258	1.3162	7.4	NA	±20	Average RF
1,2,4-Trimethylbenzene	50.0	52.2	3.1437	3.2809	4.4	NA	±20	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	58.7	0.2286	0.2684	17.4	NA	±20	Average RF
1,2-Dibromoethane	50.0	51.1	0.3684	0.3762	2.1	NA	±20	Average RF
1,2-Dichlorobenzene	50.0	51.9	1.7002	1.7638	3.7	NA	±20	Average RF
1,2-Dichloroethane	50.0	42.4	0.5325	0.4513	-15.3	NA	±20	Average RF
1,2-Dichloropropane	50.0	46.2	0.3677	0.3398	-7.6	NA	±20	Average RF
1,3,5-Trimethylbenzene	50.0	51.7	3.1517	3.2618	3.5	NA	±20	Average RF
1,3-Dichlorobenzene	50.0	51.2	1.7073	1.7485	2.4	NA	±20	Average RF
1,4-Dichlorobenzene	50.0	49.4	1.8379	1.8169	-1.1	NA	±20	Average RF
1,4-Dioxane	1000	950	0.0081	0.0077	-5.0	NA	±20	Average RF
2-Butanone (MEK)	50.0	35.8	0.4319	0.3095	-28.3*	NA	±20	Average RF
2-Hexanone	50.0	41.6	0.3937	0.3276	-16.8	NA	±20	Average RF
4-Isopropyltoluene	50.0	52.4	3.2579	3.4162	4.9	NA	±20	Average RF
4-Methyl-2-pentanone	50.0	40.1	0.49	0.393	-19.8	NA	±20	Average RF
Acetone	50.0	35.4	0.2959	0.2077	NA	-29.2*	±20	Quadratic
Benzene	50.0	49.6	1.4176	1.4063	-0.8	NA	±20	Average RF
Bromochloromethane	50.0	49.6	0.3498	0.3473	-0.7	NA	±20	Average RF
Bromodichloromethane	50.0	47.1	0.445	0.4189	-5.9	NA	±20	Average RF
Bromoform	50.0	53.0	0.3884	0.412	6.1	NA	±20	Average RF
Bromomethane	50.0	52.4	0.4413	0.4626	4.8	NA	±20	Average RF
Carbon Disulfide	50.0	56.1	1.1766	1.3211	12.3	NA	±20	Average RF
Carbon Tetrachloride	50.0	46.5	0.3851	0.3582	-7.0	NA	±20	Average RF
Chlorobenzene	50.0	52.0	1.064	1.1064	4.0	NA	±20	Average RF
Chloroethane	50.0	42.9	0.444	0.3809	-14.2	NA	±20	Average RF
Chloroform	50.0	45.3	1.0722	0.8821	NA	-9.5	±20	Linear
Chloromethane	50.0	44.2	0.5808	0.5136	-11.6	NA	±20	Average RF
Cyclohexane	50.0	39.4	0.3309	0.2607	-21.2*	NA	±20	Average RF
Dibromochloromethane	50.0	53.7	0.3031	0.3257	7.4	NA	±20	Average RF
Dichlorodifluoromethane (CFC 12)	50.0	47.4	0.6748	0.6393	-5.3	NA	±20	Average RF
Dichloromethane	50.0	45.3	0.58	0.5255	-9.4	NA	±20	Average RF
Ethylbenzene	50.0	52.1	0.5863	0.6104	4.1	NA	±20	Average RF

Printed 11/9/2021 10:10:19 AM

Superset Reference:21-0000605766 rev 00

All samples qual'd UJ, CCV%D

GTD

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners/3616206125

Service Request: R2110341
Date Analyzed: 10/13/21 10:54

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
File ID: I:\ACQUDATA\msvoo12\Data\101321\K7814.D\
Signal ID: 1

Calibration Date: 9/2/2021
Calibration ID: RC2100117
Analysis Lot: 742295
Units: ppb

Isopropylbenzene (Cumene)	50.0	50.9	3.3914	3.4554	1.9	NA	±20	Average RF
Methyl Acetate	50.0	36.5	0.6375	0.465	-27.1*	NA	±20	Average RF
Methyl tert-Butyl Ether	50.0	46.3	1.9545	1.8085	-7.5	NA	±20	Average RF
Methylcyclohexane	50.0	46.6	0.4629	0.4315	-6.8	NA	±20	Average RF
Naphthalene	50.0	57.4	3.853	4.421	14.7	NA	±20	Average RF
Styrene	50.0	53.7	1.1713	1.2591	7.5	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	50.4	0.2882	0.2906	0.9	NA	±20	Average RF
Toluene	50.0	52.0	1.5183	1.5795	4.0	NA	±20	Average RF
Trichloroethene (TCE)	50.0	49.9	0.3519	0.3515	-0.1	NA	±20	Average RF
Trichlorofluoromethane (CFC 11)	50.0	45.0	0.8575	0.772	-10.0	NA	±20	Average RF
Vinyl Chloride	50.0	44.4	0.6763	0.6012	-11.1	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	47.6	0.6128	0.5833	-4.8	NA	±20	Average RF
cis-1,3-Dichloropropene	50.0	49.2	0.5372	0.5286	-1.6	NA	±20	Average RF
m,p-Xylenes	100	106	0.7087	0.7499	5.8	NA	±20	Average RF
n-Butylbenzene	50.0	51.5	3.0111	3.0989	2.9	NA	±20	Average RF
n-Propylbenzene	50.0	51.1	4.2326	4.3279	2.3	NA	±20	Average RF
o-Xylene	50.0	52.1	0.6999	0.729	4.2	NA	±20	Average RF
sec-Butylbenzene	50.0	51.9	3.718	3.8615	3.9	NA	±20	Average RF
tert-Butylbenzene	50.0	50.3	2.5901	2.6055	0.6	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	49.4	0.532	0.5253	-1.3	NA	±20	Average RF
trans-1,3-Dichloropropene	50.0	50.2	0.4981	0.5005	0.5	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	52.4	0.5079	0.5324	4.8	NA	±20	Average RF
Dibromofluoromethane	50.0	52.2	0.2722	0.284	4.4	NA	±20	Average RF
Toluene-d8	50.0	53.8	1.2794	1.3771	7.6	NA	±20	Average RF

All samples qual'd UJ, CCV%D

GTD

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners

Service Request: R2110341
Calibration Date: 9/2/2021

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2100117
Instrument ID: R-MS-12

Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC2100117-01	0.5ppb	I:\ACQUDATA\msvoa12\Data\090221\K6356.D	09/02/2021 12:07
02	RC2100117-02	1.0ppb	I:\ACQUDATA\msvoa12\Data\090221\K6357.D	09/02/2021 12:29
03	RC2100117-03	2.0ppb	I:\ACQUDATA\msvoa12\Data\090221\K6358.D	09/02/2021 12:51
04	RC2100117-04	5.0ppb	I:\ACQUDATA\msvoa12\Data\090221\K6359.D	09/02/2021 13:13
05	RC2100117-05	20ppb	I:\ACQUDATA\msvoa12\Data\090221\K6360.D	09/02/2021 13:35
06	RC2100117-06	50ppb	I:\ACQUDATA\msvoa12\Data\090221\K6361.D	09/02/2021 13:57
07	RC2100117-07	100ppb	I:\ACQUDATA\msvoa12\Data\090221\K6362.D	09/02/2021 14:18
08	RC2100117-08	150ppb	I:\ACQUDATA\msvoa12\Data\090221\K6363.D	09/02/2021 14:40
09	RC2100117-09	200ppb	I:\ACQUDATA\msvoa12\Data\090221\K6364.D	09/02/2021 15:02

Analyte

1,1,1-Trichloroethane (TCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8585	02	1.000	0.8017	03	2.000	0.8029	04	5.000	0.8101
05	20.000	0.7424	06	50.000	0.8241	07	100.000	0.7763	08	150.000	0.8016
09	200.000	0.7877									

1,1,2,2-Tetrachloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.124	02	1.000	0.9724	03	2.000	0.9269	04	5.000	1.093
05	20.000	1.068	06	50.000	1.136	07	100.000	1.045	08	150.000	1.026
09	200.000	1.075									

1,1,2-Trichloro-1,2,2-trifluoroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4638	02	1.000	0.5506	03	2.000	0.5199	04	5.000	0.4756
05	20.000	0.4346	06	50.000	0.4733	07	100.000	0.4426	08	150.000	0.4614
09	200.000	0.4528									

1,1,2-Trichloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4028	02	1.000	0.3623	03	2.000	0.3651	04	5.000	0.3362
05	20.000	0.3166	06	50.000	0.3211	07	100.000	0.3161	08	150.000	0.3238
09	200.000	0.3083									

1,1-Dichloroethane (1,1-DCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.128	02	1.000	0.9369	03	2.000	0.935	04	5.000	1.054
05	20.000	0.9801	06	50.000	1.034	07	100.000	0.9778	08	150.000	0.9915
09	200.000	0.9683									

1,1-Dichloroethene (1,1-DCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5512	02	1.000	0.448	03	2.000	0.4884	04	5.000	0.5264
05	20.000	0.46	06	50.000	0.4824	07	100.000	0.4687	08	150.000	0.4779
09	200.000	0.4735									

GTD

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners

Service Request: R2110341
Calibration Date: 9/2/2021

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2100117
Instrument ID: R-MS-12

Signal ID: 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
1,1,1-Trichloroethane (TCA)	TRG	Average RF	% RSD	4.0	≤20	0.8006	0.100
1,1,2,2-Tetrachloroethane	TRG	Average RF	% RSD	6.5	≤20	1.052	0.300
1,1,2-Trichloro-1,2,2-trifluoroethane	TRG	Average RF	% RSD	7.9	≤20	0.4749	0.100
1,1,2-Trichloroethane	TRG	Average RF	% RSD	9.2	≤20	0.3391	0.100
1,1-Dichloroethane (1,1-DCA)	TRG	Average RF	% RSD	6.2	≤20	1.001	0.200
1,1-Dichloroethene (1,1-DCE)	TRG	Average RF	% RSD	✓ 6.7	≤20	✓ 0.4863	0.100
1,2,3-Trichlorobenzene	TRG	Average RF	% RSD	5.2	≤20	1.227	
1,2,4-Trichlorobenzene	TRG	Average RF	% RSD	4.3	≤20	1.226	0.200
1,2,4-Trimethylbenzene	TRG	Average RF	% RSD	5.7	≤20	3.144	
1,2-Dibromo-3-chloropropane (DBCP)	TRG	Average RF	% RSD	14.9	≤20	0.2286	0.050
1,2-Dibromoethane	TRG	Average RF	% RSD	3.4	≤20	0.3684	0.100
1,2-Dichlorobenzene	TRG	Average RF	% RSD	8.0	≤20	1.7	0.400
1,2-Dichloroethane	TRG	Average RF	% RSD	6.9	≤20	0.5325	0.100
1,2-Dichloropropane	TRG	Average RF	% RSD	7.9	≤20	0.3677	0.100
1,3,5-Trimethylbenzene	TRG	Average RF	% RSD	5.5	≤20	3.152	
1,3-Dichlorobenzene	TRG	Average RF	% RSD	6.2	≤20	1.707	0.600
1,4-Dichlorobenzene	TRG	Average RF	% RSD	9.9	≤20	1.838	0.500
1,4-Dioxane	TRG	Average RF	% RSD	9.8	≤20	0.008057	
2-Butanone (MEK)	TRG	Average RF	% RSD	13.1	≤20	0.4319	0.05
2-Hexanone	TRG	Average RF	% RSD	5.9	≤20	0.3937	0.05
4-Bromofluorobenzene	SURR	Average RF	% RSD	4.8	≤20	0.5079	
4-Isopropyltoluene	TRG	Average RF	% RSD	4.7	≤20	3.258	
4-Methyl-2-pentanone	TRG	Average RF	% RSD	4.7	≤20	0.49	0.05
Acetone	TRG	Quadratic	COD	0.9984	≥0.99	0.2959	0.05
Benzene	TRG	Average RF	% RSD	6.0	≤20	1.418	0.500
Bromochloromethane	TRG	Average RF	% RSD	7.9	≤20	0.3498	
Bromodichloromethane	TRG	Average RF	% RSD	5.2	≤20	0.445	0.200
Bromoform	TRG	Average RF	% RSD	14.9	≤20	0.3884	0.100
Bromomethane	TRG	Average RF	% RSD	52.9	≤20	0.4413	0.100
Carbon Disulfide	TRG	Average RF	% RSD	4.2	≤20	1.177	0.100
Carbon Tetrachloride	TRG	Average RF	% RSD	7.0	≤20	0.3851	0.05
Chlorobenzene	TRG	Average RF	% RSD	5.8	≤20	1.064	0.500
Chloroethane	TRG	Average RF	% RSD	13.9	≤20	0.444	0.100
Chloroform	TRG	Linear	R2	0.9964	≥0.99	1.072	0.200

GTD

Data Path : I:\ACQUDATA\msvoa12\Data\101321\
 Data File : K7835.D
 Acq On : 13 Oct 2021 6:54 pm
 Operator : K.Ruest
 Sample : R2110341-001|25
 Misc : WOOD 8260 T4
 ALS Vial : 20 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Oct 15 17:17:59 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.450	168	360266	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.529	114	591274	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	520521	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	263448	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	161405	50.14	ppb	0.00
Spiked Amount	50.000	Range	80 - 116	Recovery	=	100.28%
48) surr1,1,2-dichloroetha...	5.852	65	219614	46.92	ppb	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	93.84%
65) SURR3,Toluene-d8	8.315	98	796270	52.63	ppb	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	105.26%
70) SURR2,BFB	10.870	95	295272	49.16	ppb	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	98.32%
Target Compounds						
3) Chloromethane	1.323	50	997	0.24	ppb	Qvalue 83
4) Vinyl Chloride	1.402	62	4374	0.90	ppb	82
5) Bromomethane	1.640	94	1367m	0.43	ppb	
13) 1,1-Diclethene	2.335	96	2419	✓ 0.69	ppb	# 62
34) cis-1,2-Dichloroethene	4.444	96	69319	15.70	ppb	84
40) Chloroform	5.054	83	2446m	Below	Cal	
54) Trichloroethene	6.840	130	224719	54.00	ppb	97
72) Tetrachloroethene	8.968	164	488040	162.69	ppb	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

GTD

DUSR Calculations Sheet

Sample ID: 828133-MW113-100421

TC: 1,1-Dichloroethene

ICAL Level: N/A

Val File Result for TC: 17 J

Ical Calc

No raw data for levels provided - assuming the ICAL is correct

Area TC	1	0.5512
Area IS	2	0.448
	3	0.4884
Conc TC	4	0.5264
Conc IS	5	0.46
	6	0.4824
RRF =	7	0.4687
	8	0.4779
	9	0.4735
	10	
Avg RRF =		0.486278
Std Dev =		0.032677
%RSD =		6.719855

Sample Calc

Area TC	2419	DF	25
Area IS	360266		
Conc IS	50		
Avg RRF	0.486278		
Conc TC =	0.690396 µg/L	Conc TC =	17.2575

Notes:

Green = matched reported value

Red = did not match reported value

GTD

RPD < 50 - all within limits - no quals

Sample ID: 828133-MW114-100421 / 828133-MW114-100421-DUP

Compound	Result	LabQual	DF	Dup	LabQual	DF	RPD
Tetrachloroethene	2600			2900			10.9
Trichloroethene	78			82			5.0
Cis-1,2-dichloroethene	20			18 J			10.5

GTD

From: [Staples, Charles R.](#)
To: [Davis, Gabrielle](#)
Cc: [Ricardi, Julie A](#)
Subject: FW: Sample Confirmation from ALS Environmental for (R2110341)
Date: Friday, December 10, 2021 10:27:06 AM

Gabby - The Sample ID was wrong on the COC. I had Janice correct it after I received the sample log in confirmation.

See below.

Thanks for checking!!

Chuck

-----Original Message-----

From: Staples, Charles R.
Sent: Monday, October 18, 2021 2:23 PM
To: Janice.Jaeger@alsglobal.com
Cc: Paulus, Benjamin <benjamin.paulus@woodplc.com>
Subject: RE: Sample Confirmation from ALS Environmental for (R2110341)

Janice,

Looks like we may have written one of the sample IDs down wrong.

For Lab Sample ID R2110341-003, can you change the Wood sample ID from "GW" to "MW": 828133-MW14D-100421.

The other sample IDs look good.

Thanks,

Chuck

GTD

-----Original Message-----

From: Janice.Jaeger@alsglobal.com <Janice.Jaeger@alsglobal.com>
Sent: Monday, October 18, 2021 5:29 AM
To: Staples, Charles R. <charles.staples@woodplc.com>
Subject: Sample Confirmation from ALS Environmental for (R2110341)

CAUTION: External email. Please do not click on links/attachments unless you know the content is genuine and safe.

Privileged Communications: This email (and/or the documents attached to it) may contain confidential information belonging to the sender which is privileged. The information is intended only for the use of the individual or entity named on the distribution. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution or the taking of any action in reliance on the contents of this information is strictly prohibited. If you received this email in error, please notify us by telephone to arrange for the return of the documents.

VOCs

NYSDEC DUSR PROJECT CHEMIST REVIEW RECORD

Project: Ace Cleaners December 2021 GW

Method: 8260C

Laboratory: ALS

SDG(s): R2112807 and R2112847

Date: 5/4/2022

Reviewer: Gabrielle Davis

Review Level ☒ NYSDEC DUSR

☐ USEPA Region II Guideline

1. ☒ **Case Narrative Review and COC/Data Package Completeness** COMMENTS

Were problems noted? Yes, see attached

Are Field Sample IDs and Locations assigned correctly? YES NO (circle one)

Were all the samples on the COC analyzed for the requested analyses? YES NO (circle one)

2. ☒ **Holding time and Sample Collection**

All samples were analyzed within the 14 day holding time. YES NO (circle one)

See attached - no quals

3. ☒ **QC Blanks**

Are method blanks free of contamination? YES NO (circle one)

See attached for MB and TB review

Are Trip blanks free of contamination? YES NO (circle one)

Are Rinse blanks free of contamination? YES NO NA (circle one)

4. ☒ **Instrument Tuning – Data Package Narrative Review**

Did the laboratory narrative identify any results that were not within method criteria? YES NO (circle one)

If yes, use professional judgment to evaluate data and qualify results if needed

5. ☒ **Instrument Calibration – Data Package Narrative Review**

Did the laboratory narrative identify compounds that were not within criteria in the initial and/or continuing calibration standards? YES NO (circle one)

Initial Calibration %RSD = 20% (30% for 1,1-DCE, chloroform, 1,2-DCP, toluene, ethylbenzene, VC)

Initial Avg RRF and Continuing RRF should be ≥ 0.05 and 0.10 for Chloromethane, 1,1-Dichloroethane, Bromoform and 0.30 for Chlorobenzene and 1,1,2,2-Tetrachloroethane

Continuing Calibration %D = 20%

See attached - subset UJ, CCV%D

Did the laboratory qualify results based on initial or continuing calibration exceedances? YES NO

If yes to above, use professional judgment to evaluate data and qualify results if needed

6. ☒ **Internal Standards – Data Package Narrative Review**

(Area Limits = -50% to +100%, RTs within 30 seconds of daily CCAL standard (or ICAL mid-point if samples follow ICAL))

Did the laboratory narrative identify any sample internal standards that were not within criteria? YES NO (circle one)

Did the laboratory qualify results based on internal standard exceedances? YES NO

If yes to above, use professional judgment to evaluate data and qualify results if needed

7. ☒ **Surrogate Recovery - Region II limits (water 80-120%, soil 70-130%)**

Were all results within Region II limits? YES NO (circle one)

8. ☒ **Matrix Spike - Region II limits (water and soil 70-130%, water RPD 20, soil RPD 35)**

Were MS/MSDs submitted/analyzed? YES NO

Extra volume submitted with sample 828133-MW14D-120721 for MS analysis - not reported

Were all results within the Region II limits? YES NO NA (circle one)

GTD

9. ☒ **Duplicates** - Region II Limits (water RPD 50, soil RPD 100)
Were Field Duplicates submitted/analyzed? YES NO 828133-MW114-120721 / 828133-MW114-120721-Dup
Were all results within Region II limits? (soil RPD<100, water RPD<50) YES NO NA
10. ☒ **Laboratory Control Sample Results** - Region II (Water and soil 70-130%)
See attached - no quals
Were all results were within Region II control limits? YES NO (circle one)
11. ☒ **Reporting Limits:** Were samples analyzed at a dilution? YES NO (circle one)
828133-MW114-120721 (25X), 828133-MW114-120721-Dup (25X), 828133-MW14D-120721 (2.5 and 25X),
828133-MW113-120721 (20X), 828133-GW14-120721 (5X)
12. ☒ **Raw Data Review and Calculation Checks**
See attached for calculations - no ICAL levels provided - assuming ICAL is correct
13. ☒ **Electronic Data Review and Edits**
Does the EDD match the Form Is? YES NO (circle one)
14. ☒ **Tables and TIC Review**
Table 1 (Samples and Analytical Methods)
Table 2 (Analytical Results)
Table 3 (Qualification Actions)
Were all tables produced and reviewed? YES NO (circle one)
Table 4 (TICs) Did lab report TICs? YES NO (circle one)

GTD

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125.02

Service Request: R2112807

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2112807-001	828133-MW114-120721 ✓	12/7/2021	0945
R2112807-002	828133-MW114-120721-Dup ✓	12/7/2021	0945
R2112807-003	828133-MW14D-120721 ✓	12/7/2021	1000
R2112807-004	828133-MW113-120721 ✓	12/7/2021	1125
R2112807-005	828133-GW14-120721 ✓	12/7/2021	1150
R2112807-006	Trip Blank ✓	12/7/2021	

TB not included on COC - noted during lab receipt

GTD



No quals for temp - samples temp read day of collection - no time to come to temperature

R2112807

Wood E&S - Portland ME
Ace Cleaners Site #628133

5

Cooler Receipt and Preservation Check Form

Project/Client Wood Folder Number _____

Cooler received on 12/7/21 by: Q COURIER: ALS UPS FEDEX VELOCITY CLIENT

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

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

8. Temperature Readings Date: 12/7/21 Time: 13:15 ID: IR#7 IR#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>9.7</u>						
Within 0-6°C?	Y <u>N</u>	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y <u>N</u>	Y N	Y N	Y N	Y N	Y N	Y N

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

All samples held in storage location: R-002 by Q on 12/7/21 at 13:18
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 12/7/21 Time: 0839 by: Q

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

pH	Lot of test paper	Reagent	Preserved?	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH	Yes No	<u>214719</u>	<u>4/22</u>				
<u>2</u>	<u>245320</u>	HNO ₃	<u>✓</u>	<u>1121062</u>					
<u>2</u>		H ₂ SO ₄	<u>✓</u>	<u>21420053</u>					
<4		NaHSO ₄							
5-9		For 608pest		No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522		If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃							
		ZnAcetate	- -	<u>216303</u>	<u>3/22</u>				
		HCl	** **						

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

Bottle lot numbers: 1027-009, 2696, 2110-20, 101121-2AA

Explain all Discrepancies/ Other Comments:

headspace: all sulfide & alk.
1 vial RSK - MW114
2 vial RSK - GW14
1 vial RSK - GW14 - CO₂

TB - not in COC

No headspace VOAs - no quals

HPRD	BULK
HTR	FLDT
<u>SUB</u>	HGFB
ALS	LL3541

Labels secondary reviewed by: SW
PC Secondary Review: SW 12/8/21

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

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125.02

Service Request: R2112847

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2112847-001	828133-SUMP011 ✓	12/8/2021	1045

GTD



No quals for temp - temp taken same day as
sample collection - no time to come to temperature

R2112847

Wood E&S - Portland ME
Acc Cleaners Site #826133

5

Cooler Receipt and Preservation Check Form

Project/Client Wood Folder Number _____

Cooler received on 12/8/21 by: MM COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <u>N</u>	5a	Perchlorate samples have required headspace?	Y <u>N</u> <u>NA</u>
2	Custody papers properly completed (ink, signed)?	Y <u>N</u>	5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y <u>N</u> <u>NA</u>
3	Did all bottles arrive in good condition (unbroken)?	Y <u>N</u>	6	Where did the bottles originate?	<u>ALS/ROC</u> <u>CLIENT</u>
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present? <u>Y</u> <u>N</u>		7	Soil VOA received as: Bulk Encore 5035set <u>NA</u>	

8. Temperature Readings Date: 12/8/21 Time: 12:05 ID: IR#7 IR#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>10.6</u>						
Within 0-6°C?	Y <u>N</u>	Y <u>N</u>	Y <u>N</u>	Y <u>N</u>	Y <u>N</u>	Y <u>N</u>	Y <u>N</u>
If <0°C, were samples frozen?	Y <u>N</u>	Y <u>N</u>	Y <u>N</u>	Y <u>N</u>	Y <u>N</u>	Y <u>N</u>	Y <u>N</u>

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: 12/002 by MM on 12/8/21 at 12:10
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 12/9/21 Time: 0806 by: Q

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

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

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

Bottle lot numbers: 2621

Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: Q
PC Secondary Review: MM 12/11/21 *significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133
Sample Matrix: Water

Service Request: R2112807
Date Received: 12/07/2021

CASE NARRATIVE

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

Sample Receipt:

Six water samples were received for analysis at ALS Environmental on 12/07/2021. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

One or more samples were subcontracted to another laboratory for testing. The certified analytical report from the subcontractor has been included in its entirety at the end of this report and includes the name and address of the subcontracted laboratory.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Subcontracted Analytical Parameters:

No significant anomalies were noted with this analysis.

Volatiles by GC:

No significant anomalies were noted with this analysis.

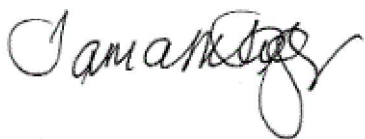
Volatiles by GC/MS:

Method 8260C, 12/20/2021: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 12/18/2021: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

See attached for CCV reviews - subset UJ, CCV%D

GTD



Approved by _____

Date 01/19/2022



Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133
Sample Matrix: Water

Service Request: R2112847
Date Received: 12/08/2021

CASE NARRATIVE

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

Sample Receipt:

One water sample was received for analysis at ALS Environmental on 12/08/2021. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Volatiles by GC/MS:

No significant anomalies were noted with this analysis.

GTD

Approved by

A handwritten signature in black ink, appearing to read "Samantha".

Date

12/20/2021

ALS Group USA, Corp.
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Analytical Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125.02
Sample Matrix: Water

Service Request: R2112807
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2116109-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C Associated with samples 828133-MW14D-120721, 828133-MW114-1201721, and 828133-MW114-120721-Dup
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Naphthalene	1.0 U	1.0	0.55	1	12/16/21 22:00	
Styrene	1.0 U	1.0	0.20	1	12/16/21 22:00	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	12/16/21 22:00	
Toluene Samples ND - no quals	0.23 J	1.0	0.20	1	12/16/21 22:00	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	12/16/21 22:00	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	12/16/21 22:00	
Vinyl Chloride	1.0 U	1.0	0.20	1	12/16/21 22:00	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	12/16/21 22:00	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	12/16/21 22:00	
m,p-Xylenes	2.0 U	2.0	0.20	1	12/16/21 22:00	
n-Butylbenzene	1.0 U	1.0	0.20	1	12/16/21 22:00	
n-Propylbenzene	1.0 U	1.0	0.20	1	12/16/21 22:00	
o-Xylene	1.0 U	1.0	0.20	1	12/16/21 22:00	
sec-Butylbenzene	1.0 U	1.0	0.20	1	12/16/21 22:00	
tert-Butylbenzene	1.0 U	1.0	0.20	1	12/16/21 22:00	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	12/16/21 22:00	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	12/16/21 22:00	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	12/16/21 22:00	
Dibromofluoromethane	98	80 - 116	12/16/21 22:00	
Toluene-d8	103	87 - 121	12/16/21 22:00	

GTD

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125.02
Sample Matrix: Water

Service Request: R2112807
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2116148-06

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C Associated with 828133-MW14D-120721 25X dilution

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	12/18/21 01:25	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	12/18/21 01:25	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	12/18/21 01:25	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	12/18/21 01:25	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	12/18/21 01:25	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	12/18/21 01:25	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	12/18/21 01:25	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	12/18/21 01:25	
1,2,4-Trimethylbenzene	1.0 U	1.0	0.20	1	12/18/21 01:25	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	12/18/21 01:25	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	12/18/21 01:25	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	12/18/21 01:25	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	12/18/21 01:25	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	12/18/21 01:25	
1,3,5-Trimethylbenzene	1.0 U	1.0	0.20	1	12/18/21 01:25	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	12/18/21 01:25	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	12/18/21 01:25	
1,4-Dioxane	40 U	40	13	1	12/18/21 01:25	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	12/18/21 01:25	
2-Hexanone	5.0 U	5.0	0.20	1	12/18/21 01:25	
4-Isopropyltoluene	1.0 U	1.0	0.20	1	12/18/21 01:25	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	12/18/21 01:25	
Acetone	5.0 U	5.0	5.0	1	12/18/21 01:25	
Benzene	1.0 U	1.0	0.20	1	12/18/21 01:25	
Bromochloromethane	1.0 U	1.0	0.20	1	12/18/21 01:25	
Bromodichloromethane	1.0 U	1.0	0.20	1	12/18/21 01:25	
Bromoform	1.0 U	1.0	0.25	1	12/18/21 01:25	
Bromomethane	1.0 U	1.0	0.70	1	12/18/21 01:25	
Carbon Disulfide	1.0 U	1.0	0.42	1	12/18/21 01:25	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	12/18/21 01:25	
Chlorobenzene	1.0 U	1.0	0.20	1	12/18/21 01:25	
Chloroethane	1.0 U	1.0	0.23	1	12/18/21 01:25	
Chloroform	1.0 U	1.0	0.24	1	12/18/21 01:25	
Chloromethane	Not reported from the dilution - no quals	0.41 J	0.28	1	12/18/21 01:25	
Cyclohexane	1.0 U	1.0	0.26	1	12/18/21 01:25	
Dibromochloromethane	1.0 U	1.0	0.20	1	12/18/21 01:25	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	12/18/21 01:25	
Dichloromethane	1.0 U	1.0	0.65	1	12/18/21 01:25	
Ethylbenzene	1.0 U	1.0	0.20	1	12/18/21 01:25	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	12/18/21 01:25	
Methyl Acetate	2.0 U	2.0	0.33	1	12/18/21 01:25	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	12/18/21 01:25	
Methylcyclohexane	1.0 U	1.0	0.20	1	12/18/21 01:25	

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Analytical Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125.02
Sample Matrix: Water

Service Request: R2112807
Date Collected: 12/07/21
Date Received: 12/07/21 13:21

Sample Name: Trip Blank
Lab Code: R2112807-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	12/17/21 03:36	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	12/17/21 03:36	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	12/17/21 03:36	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	12/17/21 03:36	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	12/17/21 03:36	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	12/17/21 03:36	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	12/17/21 03:36	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	12/17/21 03:36	
1,2,4-Trimethylbenzene	1.0 U	1.0	0.20	1	12/17/21 03:36	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	12/17/21 03:36	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	12/17/21 03:36	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	12/17/21 03:36	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	12/17/21 03:36	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	12/17/21 03:36	
1,3,5-Trimethylbenzene	1.0 U	1.0	0.20	1	12/17/21 03:36	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	12/17/21 03:36	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	12/17/21 03:36	
1,4-Dioxane	40 U	40	13	1	12/17/21 03:36	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	12/17/21 03:36	
2-Hexanone	5.0 U	5.0	0.20	1	12/17/21 03:36	
4-Isopropyltoluene	1.0 U	1.0	0.20	1	12/17/21 03:36	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	12/17/21 03:36	
Acetone	5.0 U	5.0	5.0	1	12/17/21 03:36	
Benzene	1.0 U	1.0	0.20	1	12/17/21 03:36	
Bromochloromethane	1.0 U	1.0	0.20	1	12/17/21 03:36	
Bromodichloromethane	1.0 U	1.0	0.20	1	12/17/21 03:36	
Bromoform	1.0 U	1.0	0.25	1	12/17/21 03:36	
Bromomethane	1.0 U	1.0	0.70	1	12/17/21 03:36	
Carbon Disulfide	1.0 U	1.0	0.42	1	12/17/21 03:36	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	12/17/21 03:36	
Chlorobenzene	1.0 U	1.0	0.20	1	12/17/21 03:36	
Chloroethane	1.0 U	1.0	0.23	1	12/17/21 03:36	
Chloroform	1.0 U	1.0	0.24	1	12/17/21 03:36	
Chloromethane	828133-MW14D-120721 J+, BL2 Others ND or >5x blank - no quals 1.5	1.0	0.28	1	12/17/21 03:36	
Cyclohexane	1.0 U	1.0	0.26	1	12/17/21 03:36	
Dibromochloromethane	1.0 U	1.0	0.20	1	12/17/21 03:36	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	12/17/21 03:36	
Dichloromethane	1.0 U	1.0	0.65	1	12/17/21 03:36	
Ethylbenzene	1.0 U	1.0	0.20	1	12/17/21 03:36	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	12/17/21 03:36	
Methyl Acetate	2.0 U	2.0	0.33	1	12/17/21 03:36	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	12/17/21 03:36	
Methylcyclohexane	1.0 U	1.0	0.20	1	12/17/21 03:36	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125.02
Sample Matrix: Water

Service Request: R2112847
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2116109-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C *Associated with sample 828133-SUMP011*
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Naphthalene	1.0 U	1.0	0.55	1	12/16/21 22:00	
Styrene	1.0 U	1.0	0.20	1	12/16/21 22:00	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	12/16/21 22:00	
Toluene Sample ND - no quals	0.23 J	1.0	0.20	1	12/16/21 22:00	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	12/16/21 22:00	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	12/16/21 22:00	
Vinyl Chloride	1.0 U	1.0	0.20	1	12/16/21 22:00	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	12/16/21 22:00	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	12/16/21 22:00	
m,p-Xylenes	2.0 U	2.0	0.20	1	12/16/21 22:00	
n-Butylbenzene	1.0 U	1.0	0.20	1	12/16/21 22:00	
n-Propylbenzene	1.0 U	1.0	0.20	1	12/16/21 22:00	
o-Xylene	1.0 U	1.0	0.20	1	12/16/21 22:00	
sec-Butylbenzene	1.0 U	1.0	0.20	1	12/16/21 22:00	
tert-Butylbenzene	1.0 U	1.0	0.20	1	12/16/21 22:00	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	12/16/21 22:00	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	12/16/21 22:00	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	12/16/21 22:00	
Dibromofluoromethane	98	80 - 116	12/16/21 22:00	
Toluene-d8	103	87 - 121	12/16/21 22:00	

GTD

ALS Group USA, Corp.
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QA/QC Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125.02
Sample Matrix: Water

Service Request: R2112807
Date Analyzed: 12/18/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Associated with sample 828133-MW14D-120721 25X dilution

Units:ug/L
Basis:NA

Lab Control Sample

RQ2116148-04

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	23.6	20.0	118	65-135
Cyclohexane	8260C	17.5	20.0	87	69-120
Dibromochloromethane	8260C	16.4	20.0	82	72-128
Dichlorodifluoromethane (CFC 12)	8260C	16.9	20.0	84	59-155
Dichloromethane	8260C	17.0	20.0	85	73-122
Ethylbenzene	8260C	18.9	20.0	94	76-120
Isopropylbenzene (Cumene)	8260C	18.9	20.0	95	77-128
Methyl Acetate	8260C	12.4	20.0	62	61-133
Methyl tert-Butyl Ether	8260C	16.5	20.0	83	75-118
Methylcyclohexane	8260C	17.2	20.0	86	51-129
Naphthalene	8260C	17.0	20.0	85	59-140
Styrene	8260C	18.6	20.0	93	80-124
Tetrachloroethene (PCE)	8260C	19.5	20.0	97	72-125
Toluene	8260C	19.2	20.0	96	79-119
Trichloroethene (TCE)	8260C	18.6	20.0	93	74-122
Trichlorofluoromethane (CFC 11)	8260C	17.4	20.0	87	71-136
Vinyl Chloride	8260C	18.7	20.0	94	74-159
cis-1,2-Dichloroethene	8260C	17.7	20.0	88	80-121
cis-1,3-Dichloropropene	8260C	16.6	20.0	83	77-122
m,p-Xylenes	8260C	37.8	40.0	95	80-126
n-Butylbenzene	8260C	18.0	20.0	90	78-133
n-Propylbenzene	8260C	19.2	20.0	96	78-131
o-Xylene	8260C	19.0	20.0	95	79-123
sec-Butylbenzene	8260C	18.6	20.0	93	75-129
tert-Butylbenzene	8260C	18.3	20.0	91	76-126
trans-1,2-Dichloroethene	8260C	18.1	20.0	91	73-118
trans-1,3-Dichloropropene	8260C	15.5	20.0	78	71-133

GTD

RPD < 50 - all within limits - no quals

Sample ID: 828133-MW114-120721 / 828133-MW114-120721-Dup

Compound	Result	LabQual	DF	Dup	LabQual	DF	RPD
Chloroform	53			47			12.0
Tetrachloroethene	3000			3100			3.3
Trichloroethene	140			140			0.0
Cis-1,2-dichloroethene	71			70			1.4

GTD

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QA/QC Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125.02

Service Request: R2112807
Date Analyzed: 12/17/21 23:33

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
File ID: I:\ACQUDATA\MSVOA14\Data\121721\V0958.D\
Signal ID: 1

Calibration Date: 11/12/2021
Calibration ID: RC2100143
Analysis Lot: 749470
Units: ug/L

Associated with sample 828133-MW14D-120721

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	50.0	0.7133	0.7128	-0.1	NA	±20	Average RF
1,1,2,2-Tetrachloroethane	50.0	43.1	1.0435	0.8987	-13.9	NA	±20	Average RF
1,1,2-Trichloroethane	50.0	51.5	0.3265	0.3361	2.9	NA	±20	Average RF
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.6	0.4129	0.4182	1.3	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	52.3	0.8324	0.8705	4.6	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	52.9	0.4067	0.4306	5.9	NA	±20	Average RF
1,2,3-Trichlorobenzene	50.0	54.5	1.0859	1.1829	8.9	NA	±20	Average RF
1,2,4-Trichlorobenzene	50.0	54.4	1.0795	1.1751	8.9	NA	±20	Average RF
1,2,4-Trimethylbenzene	50.0	52.9	2.573	2.7227	5.8	NA	±20	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	49.3	0.2813	0.2771	-1.5	NA	±20	Average RF
1,2-Dibromoethane	50.0	53.4	0.3838	0.4102	6.9	NA	±20	Average RF
1,2-Dichlorobenzene	50.0	53.4	1.4973	1.5994	6.8	NA	±20	Average RF
1,2-Dichloroethane	50.0	51.3	0.484	0.4967	2.6	NA	±20	Average RF
1,2-Dichloropropane	50.0	52.3	0.3415	0.3574	4.7	NA	±20	Average RF
1,3,5-Trimethylbenzene	50.0	53.0	2.5669	2.7209	6.0	NA	±20	Average RF
1,3-Dichlorobenzene	50.0	53.2	1.4864	1.5814	6.4	NA	±20	Average RF
1,4-Dichlorobenzene	50.0	52.2	1.5641	1.6328	4.4	NA	±20	Average RF
1,4-Dioxane	1000	1030	0.0079	0.0081	3.1	NA	±20	Average RF
2-Butanone (MEK)	50.0	50.0	0.438	0.4376	-0.1	NA	±20	Average RF
2-Hexanone	50.0	51.9	0.4394	0.4563	3.8	NA	±20	Average RF
4-Isopropyltoluene	50.0	53.9	2.6832	2.891	7.7	NA	±20	Average RF
4-Methyl-2-pentanone	50.0	51.5	0.5203	0.5355	2.9	NA	±20	Average RF
Acetone	50.0	51.2	0.3049	0.3126	2.5	NA	±20	Average RF
Benzene	50.0	53.9	1.2288	1.3253	7.9	NA	±20	Average RF
Bromochloromethane	50.0	51.0	0.3463	0.3533	2.0	NA	±20	Average RF
Bromodichloromethane	50.0	50.4	0.4357	0.439	0.8	NA	±20	Average RF
Bromoform	50.0	49.3	0.2803	0.2762	-1.5	NA	±20	Average RF
Bromomethane	50.0	46.0	0.3923	0.3015	NA	-8.0	±20	Quadratic
Carbon Disulfide	50.0	56.1	1.088	1.2204	12.2	NA	±20	Average RF
Carbon Tetrachloride	50.0	50.8	0.3982	0.4047	1.6	NA	±20	Average RF
Chlorobenzene	50.0	52.6	0.9743	1.0254	5.3	NA	±20	Average RF
Chloroethane	50.0	50.9	0.3008	0.3062	1.8	NA	±20	Average RF
Chloroform	50.0	51.9	0.8478	0.8793	3.7	NA	±20	Average RF
Chloromethane	50.0	61.7	0.4946	0.6106	23.4*	NA	±20	Average RF
Cyclohexane	50.0	49.2	0.2916	0.2872	-1.5	NA	±20	Average RF
Dibromochloromethane	50.0	51.4	0.3662	0.3765	2.8	NA	±20	Average RF
Dichlorodifluoromethane (CFC 12)	50.0	58.5	0.5426	0.6354	17.1	NA	±20	Average RF
Dichloromethane	50.0	48.6	0.5067	0.493	-2.7	NA	±20	Average RF
Ethylbenzene	50.0	55.0	0.4911	0.5404	10.0	NA	±20	Average RF

Reported from the initial
run - no quals

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125.02

Service Request: R2112807
Date Analyzed: 12/17/21 23:33

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
File ID: I:\ACQUDATA\MSVOA14\Data\121721\V0958.D\
Signal ID: 1

Calibration Date: 11/12/2021
Calibration ID: RC2100143
Analysis Lot: 749470
Units: ug/L

Isopropylbenzene (Cumene)	50.0	54.4	1.4883	1.619	8.8	NA	±20	Average RF
Methyl Acetate	50.0	59.9	0.7654	0.9164	19.7	NA	±20	Average RF
Methyl tert-Butyl Ether	50.0	48.6	1.688	1.6414	-2.8	NA	±20	Average RF
Methylcyclohexane	50.0	47.9	0.3943	0.3776	-4.2	NA	±20	Average RF
Naphthalene	50.0	51.0	3.7285	3.8038	2.0	NA	±20	Average RF
Styrene	50.0	54.2	1.036	1.1222	8.3	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	57.1	0.2716	0.3101	14.2	NA	±20	Average RF
Toluene	50.0	53.2	1.309	1.3931	6.4	NA	±20	Average RF
Trichloroethene (TCE)	50.0	60.9	0.3349	0.4077	21.7*	NA	±20	Average RF
Trichlorofluoromethane (CFC 11)	50.0	52.9	0.6523	0.6907	5.9	NA	±20	Average RF
Vinyl Chloride	50.0	51.8	0.5018	0.5202	3.7	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	52.6	0.5152	0.5419	5.2	NA	±20	Average RF
cis-1,3-Dichloropropene	50.0	49.9	0.5093	0.508	-0.3	NA	±20	Average RF
m,p-Xylenes	100	109	0.6149	0.6688	8.8	NA	±20	Average RF
n-Butylbenzene	50.0	53.3	2.396	2.5537	6.6	NA	±20	Average RF
n-Propylbenzene	50.0	54.3	3.3238	3.6124	8.7	NA	±20	Average RF
o-Xylene	50.0	54.9	0.605	0.6648	9.9	NA	±20	Average RF
sec-Butylbenzene	50.0	53.8	3.0499	3.2834	7.7	NA	±20	Average RF
tert-Butylbenzene	50.0	52.5	2.1509	2.2577	5.0	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	53.1	0.4449	0.4725	6.2	NA	±20	Average RF
trans-1,3-Dichloropropene	50.0	47.3	0.4828	0.4567	-5.4	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	50.9	0.461	0.4692	1.8	NA	±20	Average RF
Dibromofluoromethane	50.0	51.9	0.3148	0.3267	3.8	NA	±20	Average RF
Toluene-d8	50.0	52.0	1.1883	1.2361	4.0	NA	±20	Average RF

GTD

ALS Group USA, Corp.
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QA/QC Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125.02

Service Request: R2112807
Date Analyzed: 12/20/21 08:31

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
File ID: I:\ACQUADATA\msvoa10\data\122021\B1006.D\
Signal ID: 1

Calibration Date: 12/17/2021
Calibration ID: RC2100159
Analysis Lot: 749622
Units: ug/L

Associated with samples 828133-MW113-120721 and 828133-GW14-120721

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	45.6	0.7179	0.6553	-8.7	NA	±20	Average RF
1,1,2,2-Tetrachloroethane	50.0	40.3	1.0115	0.8143	-19.5	NA	±20	Average RF
1,1,2-Trichloroethane	50.0	43.2	0.322	0.2784	-13.6	NA	±20	Average RF
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.5	0.4274	0.4144	-3.1	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	47.4	0.9135	0.8659	-5.2	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	47.2	0.4126	0.3899	-5.5	NA	±20	Average RF
1,2,3-Trichlorobenzene	50.0	45.9	1.0253	0.9404	-8.3	NA	±20	Average RF
1,2,4-Trichlorobenzene	50.0	47.6	1.0249	0.9763	-4.7	NA	±20	Average RF
1,2,4-Trimethylbenzene	50.0	46.0	2.5871	2.3805	-8.0	NA	±20	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	39.8	0.2531	0.2015	-20.4	NA	±20	Average RF
1,2-Dibromoethane	50.0	43.2	0.3734	0.3224	-13.6	NA	±20	Average RF
1,2-Dichlorobenzene	50.0	44.6	1.5159	1.3508	-10.9	NA	±20	Average RF
1,2-Dichloroethane	50.0	45.5	0.5198	0.4729	-9.0	NA	±20	Average RF
1,2-Dichloropropane	50.0	47.0	0.3525	0.3314	-6.0	NA	±20	Average RF
1,3,5-Trimethylbenzene	50.0	46.2	2.5687	2.375	-7.5	NA	±20	Average RF
1,3-Dichlorobenzene	50.0	45.1	1.5147	1.367	-9.7	NA	±20	Average RF
1,4-Dichlorobenzene	50.0	46.7	1.5162	1.4147	-6.7	NA	±20	Average RF
1,4-Dioxane	1000	755	0.0067	0.0051	-24.5*	NA	±20	Average RF
2-Butanone (MEK)	50.0	39.2	0.4343	0.3401	-21.7*	NA	±20	Average RF
2-Hexanone	50.0	37.9	0.4423	0.3355	-24.1*	NA	±20	Average RF
4-Isopropyltoluene	50.0	46.7	2.6708	2.493	-6.7	NA	±20	Average RF
4-Methyl-2-pentanone	50.0	39.1	0.542	0.424	-21.8*	NA	±20	Average RF
Acetone	50.0	38.7	0.3195	0.2474	-22.6*	NA	±20	Average RF
Benzene	50.0	44.9	1.2774	1.1474	-10.2	NA	±20	Average RF
Bromochloromethane	50.0	47.7	0.3313	0.3161	-4.6	NA	±20	Average RF
Bromodichloromethane	50.0	45.8	0.4515	0.4131	-8.5	NA	±20	Average RF
Bromoform	50.0	43.6	0.2808	0.2447	-12.9	NA	±20	Average RF
Bromomethane	50.0	50.9	0.4991	0.4414	NA	1.8	±20	Quadratic
Carbon Disulfide	50.0	48.4	1.2174	1.1773	-3.3	NA	±20	Average RF
Carbon Tetrachloride	50.0	45.4	0.4232	0.3841	-9.2	NA	±20	Average RF
Chlorobenzene	50.0	45.4	0.9485	0.8622	-9.1	NA	±20	Average RF
Chloroethane	50.0	46.0	0.3639	0.3345	-8.1	NA	±20	Average RF
Chloroform	50.0	45.5	0.8759	0.7972	-9.0	NA	±20	Average RF
Chloromethane	50.0	42.4	0.741	0.6277	-15.3	NA	±20	Average RF
Cyclohexane	50.0	45.2	0.3562	0.3219	-9.6	NA	±20	Average RF
Dibromochloromethane	50.0	45.8	0.3617	0.3311	-8.5	NA	±20	Average RF
Dichlorodifluoromethane (CFC 12)	50.0	50.2	0.5987	0.6006	0.3	NA	±20	Average RF
Dichloromethane	50.0	44.9	0.5114	0.4591	-10.2	NA	±20	Average RF
Ethylbenzene	50.0	44.9	0.5007	0.4493	-10.3	NA	±20	Average RF

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Superset Reference:21-0000612493 rev 00

GTD

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QA/QC Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125.02

Service Request: R2112807
Date Analyzed: 12/20/21 08:31

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
File ID: I:\ACQUDATA\msvoa10\data\122021\B1006.D\
Signal ID: 1

Calibration Date: 12/17/2021
Calibration ID: RC2100159
Analysis Lot: 749622
Units: ug/L

Isopropylbenzene (Cumene)	50.0	46.0	1.4775	1.3604	-7.9	NA	±20	Average RF
Methyl Acetate UJ, CCV%D	50.0	38.1	0.7007	0.5341	-23.8*	NA	±20	Average RF
Methyl tert-Butyl Ether	50.0	45.1	1.6501	1.4871	-9.9	NA	±20	Average RF
Methylcyclohexane	50.0	46.3	0.4423	0.4091	-7.5	NA	±20	Average RF
Naphthalene	50.0	44.1	3.0705	2.7085	-11.8	NA	±20	Average RF
Styrene	50.0	46.8	1.032	0.966	-6.4	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	44.8	0.2794	0.2504	-10.4	NA	±20	Average RF
Toluene	50.0	45.6	1.3473	1.2281	-8.9	NA	±20	Average RF
Trichloroethene (TCE)	50.0	44.9	0.339	0.3046	-10.1	NA	±20	Average RF
Trichlorofluoromethane (CFC 11)	50.0	48.1	0.7172	0.6897	-3.8	NA	±20	Average RF
Vinyl Chloride	50.0	48.2	0.5911	0.5698	-3.6	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	45.1	0.54	0.4876	-9.7	NA	±20	Average RF
cis-1,3-Dichloropropene	50.0	46.2	0.5425	0.5016	-7.5	NA	±20	Average RF
m,p-Xylenes	100	92.9	0.6142	0.5703	-7.1	NA	±20	Average RF
n-Butylbenzene	50.0	47.7	2.3994	2.289	-4.6	NA	±20	Average RF
n-Propylbenzene	50.0	45.8	3.4399	3.1477	-8.5	NA	±20	Average RF
o-Xylene	50.0	44.9	0.621	0.5573	-10.3	NA	±20	Average RF
sec-Butylbenzene	50.0	46.0	3.0615	2.8186	-7.9	NA	±20	Average RF
tert-Butylbenzene	50.0	45.4	2.1549	1.9546	-9.3	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	45.5	0.4694	0.4271	-9.0	NA	±20	Average RF
trans-1,3-Dichloropropene	50.0	46.7	0.5094	0.4757	-6.6	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	47.3	0.4759	0.45	-5.4	NA	±20	Average RF
Dibromofluoromethane	50.0	46.7	0.3059	0.2858	-6.6	NA	±20	Average RF
Toluene-d8	50.0	47.5	1.1801	1.1217	-4.9	NA	±20	Average RF

GTD

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133

Service Request: R2112807
Calibration Date: 11/12/2021

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2100143
Instrument ID: R-MS-14

Signal ID: 1

Analyte

Toluene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	200.000	1.393									

Toluene-d8

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	1.28	05	20.000	1.098	06	50.000	1.2	07	100.000	1.194
08	200.000	1.17									

Trichloroethene (TCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2945	02	1.000	0.3363	03	2.000	0.3432	04	5.000	0.3356
05	20.000	0.3559	06	50.000	0.3471	07	100.000	0.339	08	150.000	0.3166
09	200.000	0.3457									

Trichlorofluoromethane (CFC 11)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5276	02	1.000	0.644	03	2.000	0.6485	04	5.000	0.6576
05	20.000	0.7183	06	50.000	0.6882	07	100.000	0.673	08	150.000	0.6178
09	200.000	0.6957									

Vinyl Chloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4183	02	1.000	0.4967	03	2.000	0.4967	04	5.000	0.4778
05	20.000	0.5462	06	50.000	0.5273	07	100.000	0.5149	08	150.000	0.4935
09	200.000	0.545									

cis-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4528	02	1.000	0.5095	03	2.000	0.515	04	5.000	0.5166
05	20.000	0.5522	06	50.000	0.5338	07	100.000	0.5202	08	150.000	0.4996
09	200.000	0.5368									

cis-1,3-Dichloropropene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4196	02	1.000	0.4562	03	2.000	0.4625	04	5.000	0.4867
05	20.000	0.5566	06	50.000	0.5491	07	100.000	0.5476	08	150.000	0.5358
09	200.000	0.5695									

m,p-Xylenes

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.5024	02	2.000	0.5716	03	4.000	0.6327	04	10.000	0.607
05	40.000	0.6914	06	100.000	0.6392	07	200.000	0.6297	08	300.000	0.594
09	400.000	0.6664									

n-Butylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.922	02	1.000	2.126	03	2.000	2.378	04	5.000	2.378
05	20.000	2.744	06	50.000	2.577	07	100.000	2.496	08	150.000	2.268

GTD

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133

Service Request: R2112807
Calibration Date: 11/12/2021

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2100143
Instrument ID: R-MS-14

Signal ID: 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Chloromethane	TRG	Average RF	% RSD	5.2	≤20	0.4946	0.100
Cyclohexane	TRG	Average RF	% RSD	8.6	≤20	0.2916	0.100
Dibromochloromethane	TRG	Average RF	% RSD	10.7	≤20	0.3662	0.100
Dibromofluoromethane	SURR	Average RF	% RSD	6.4	≤20	0.3148	
Dichlorodifluoromethane (CFC 12)	TRG	Average RF	% RSD	13.8	≤20	0.5426	0.100
Dichloromethane	TRG	Average RF	% RSD	5.5	≤20	0.5067	0.100
Ethylbenzene	TRG	Average RF	% RSD	10.0	≤20	0.4911	0.100
Isopropylbenzene (Cumene)	TRG	Average RF	% RSD	8.7	≤20	1.488	0.100
Methyl Acetate	TRG	Average RF	% RSD	4.1	≤20	0.7654	0.100
Methyl tert-Butyl Ether	TRG	Average RF	% RSD	3.4	≤20	1.688	0.100
Methylcyclohexane	TRG	Average RF	% RSD	7.7	≤20	0.3943	0.100
Naphthalene	TRG	Average RF	% RSD	8.4	≤20	3.729	
Styrene	TRG	Average RF	% RSD	9.4	≤20	1.036	0.300
Tetrachloroethene (PCE)	TRG	Average RF	% RSD	10.0	≤20	0.2716	0.200
Toluene	TRG	Average RF	% RSD	6.7	≤20	1.309	0.400
Toluene-d8	SURR	Average RF	% RSD	5.5	≤20	1.188	
Trichloroethene (TCE)	TRG	Average RF	% RSD	5.5 ✓	≤20	0.3349 ✓	0.200
Trichlorofluoromethane (CFC 11)	TRG	Average RF	% RSD	8.5	≤20	0.6523	0.100
Vinyl Chloride	TRG	Average RF	% RSD	7.8	≤20	0.5018	0.100
cis-1,2-Dichloroethene	TRG	Average RF	% RSD	5.5	≤20	0.5152	0.100
cis-1,3-Dichloropropene	TRG	Average RF	% RSD	10.6	≤20	0.5093	0.200
m,p-Xylenes	TRG	Average RF	% RSD	9.0	≤20	0.6149	0.100
n-Butylbenzene	TRG	Average RF	% RSD	11.0	≤20	2.396	
n-Propylbenzene	TRG	Average RF	% RSD	9.8	≤20	3.324	
o-Xylene	TRG	Average RF	% RSD	8.2	≤20	0.605	0.300
sec-Butylbenzene	TRG	Average RF	% RSD	10.9	≤20	3.05	
tert-Butylbenzene	TRG	Average RF	% RSD	8.5	≤20	2.151	
trans-1,2-Dichloroethene	TRG	Average RF	% RSD	6.7	≤20	0.4449	0.100
trans-1,3-Dichloropropene	TRG	Average RF	% RSD	13.0	≤20	0.4828	0.100

GTD

Data Path : I:\ACQUDATA\MSVOA14\Data\121621\
 Data File : V0910.D
 Acq On : 17 Dec 2021 4:21 am
 Operator : F.NAEGLER
 Sample : R2112807-001|25.0
 Misc : WOOD 19396 T4
 ALS Vial : 53 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Dec 17 10:19:35 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W111221.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Nov 15 14:52:28 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.681	168	480222	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.931	114	693511	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.570	117	628119	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	333068	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.523	113	222089	50.87	ug/L	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery	=	101.74%	
47) surr1,1,2-dichloroetha...	5.108	65	284690	52.81	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	105.62%	
64) SURR3,Toluene-d8	7.943	98	859004	52.12	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	104.24%	
69) SURR2,BFB	10.723	95	324934	50.82	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	101.64%	
Target Compounds						
3) Chloromethane	1.151	50	10161	2.14	ug/L	Qvalue 98
15) Acetone	2.048	43	1544	0.53	ug/L	90
16) 2-Propanol	2.163	45	557	0.89	ug/L	90
33) cis-1,2-Dichloroethene	3.779	96	14109	2.85	ug/L	92
53) Trichloroethene	6.297	130	26408	✓ 5.69	ug/L	96
71) Tetrachloroethene	8.668	164	411584	120.62	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

GTD

DUSR Calculations Sheet

Sample ID: 828133-MW114-120721

TC: Trichloroethene

ICAL Level: N/A

Val File Result for TC: 140 µg/L

Ical Calc

No raw data for levels provided - assuming the ICAL is correct

Area TC	1	0.2945
Area IS	2	0.3363
	3	0.3432
Conc TC	4	0.3356
Conc IS	5	0.3559
	6	0.3471
RRF =	7	0.339
	8	0.3166
	9	0.3457
	10	
Avg RRF =		0.334878
Std Dev =		0.01858
%RSD =		5.548237

Sample Calc

Area TC	26408	DF	25
Area IS	693511		
Conc IS	50		
Avg RRF	0.334878		
Conc TC =	5.685463 µg/L	Conc TC =	142.1366

Notes:

Green = matched reported value

Red = did not match reported value

GTD

VOCs

NYSDEC DUSR PROJECT CHEMIST REVIEW RECORD

Project: Ace Cleaners April 2022 GW

Method: 8260C

Laboratory: ALS

SDG(s): R2202960 and R2202959

Date: 5/4/2022

Reviewer: Gabrielle Davis

Review Level ☒ NYSDEC DUSR

☐ USEPA Region II Guideline

1. ☒ **Case Narrative Review and COC/Data Package Completeness** COMMENTS
Were problems noted? Yes, see attached
Are Field Sample IDs and Locations assigned correctly? YES **NO** (circle one) See attached for discrepancies
Were all the samples on the COC analyzed for the requested analyses? **YES** NO (circle one)
2. ☒ **Holding time and Sample Collection**
All samples were analyzed within the 14 day holding time. **YES** NO (circle one) See attached - J/UJ SP
3. ☒ **QC Blanks**
Are method blanks free of contamination? YES **NO** (circle one) See attached - U @ RL, BL1
Are Trip blanks free of contamination? YES **NO** (circle one) See attached - U @ RL, BL2
Are Rinse blanks free of contamination? YES NO **NA** (circle one)
4. ☒ **Instrument Tuning – Data Package Narrative Review**
Did the laboratory narrative identify any results that were not within method criteria? YES **NO** (circle one)
If yes, use professional judgment to evaluate data and qualify results if needed
5. ☒ **Instrument Calibration – Data Package Narrative Review**
Did the laboratory narrative identify compounds that were not within criteria in the initial and/or continuing calibration standards? **YES** NO (circle one) See attached for CCV review - subset UJ, CCV%D

Initial Calibration %RSD = 20% (30% for 1,1-DCE, chloroform, 1,2-DCP, toluene, ethylbenzene, VC)
Initial Avg RRF and Continuing RRF should be ≥ 0.05 and 0.10 for Chloromethane, 1,1-Dichloroethane, Bromoform and 0.30 for Chlorobenzene and 1,1,2,2-Tetrachloroethane

Continuing Calibration %D = 20%

Did the laboratory qualify results based on initial or continuing calibration exceedances? YES **NO**
If yes to above, use professional judgment to evaluate data and qualify results if needed
6. ☒ **Internal Standards – Data Package Narrative Review**
(Area Limits = -50% to +100%, RTs within 30 seconds of daily CCAL standard (or ICAL mid-point if samples follow ICAL))
Did the laboratory narrative identify any sample internal standards that were not within criteria? YES **NO** (circle one)

Did the laboratory qualify results based on internal standard exceedances? YES **NO**
If yes to above, use professional judgment to evaluate data and qualify results if needed
7. ☒ **Surrogate Recovery - Region II limits (water 80-120%, soil 70-130%)**

Were all results within Region II limits? **YES** NO (circle one)
8. ☒ **Matrix Spike - Region II limits (water and soil 70-130%, water RPD 20, soil RPD 35)**

Were MS/MSDs submitted/analyzed? **YES** NO

Were all results within the Region II limits? **YES** NO NA (circle one)

Completeness check for
MNA parameters - no
validation

GTD

See attached

9. ☒ **Duplicates** - Region II Limits (water RPD 50, soil RPD 100) 828133-MW100008/828133-MW100008D

Were Field Duplicates submitted/analyzed? YES NO

Were all results within Region II limits? (soil RPD<100, water RPD<50) YES NO NA

10. ☒ **Laboratory Control Sample Results** - Region II (Water and soil 70-130%)

Were all results were within Region II control limits? YES NO (circle one)

11. ☒ **Reporting Limits:** Were samples analyzed at a dilution? YES NO (circle one)

Samples 828133-MW12D015 (2X), 828133-MW100008D (250X), 828133-MW112007 (500X), 828133-MW111007 (10X), 828133-MW100D018 (100X), 828133-MW100008 (250X), 828133-MW110010 (25X and 50X), 828133-MW2D020 (2X)

12. ☒ **Raw Data Review and Calculation Checks**

See attached for calculations - no ICAL levels provided - assuming ICAL is correct

13. ☒ **Electronic Data Review and Edits**

Does the EDD match the Form Is? YES NO (circle one)

14. ☒ **Tables and TIC Review**

Table 1 (Samples and Analytical Methods)

Table 2 (Analytical Results)

Table 3 (Qualification Actions)

Were all tables produced and reviewed? YES NO (circle one)

Table 4 (TICs) Did lab report TICs? YES NO (circle one)

Samples 828133-MW114010 (25X), 828133-MW14D020 (20X), 828133-MW113011D (5X), 828133-MW113011 (5X)

GTD



Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133
Sample Matrix: Water

Service Request: R2202960
Date Received: 04/06/2022

CASE NARRATIVE

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

Sample Receipt:

Twenty three water samples were received for analysis at ALS Environmental on 04/06/2022. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Volatiles by GC/MS:

Method 8260C, 04/13/2022: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 04/14/2022: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

See attached for CCV reviews - no quals

Method 8260C, 760562: Analysis was performed on a sample with headspace. Headspace-free sample was not available.

Okay, see attached - J/UJ, SP

GTD

Approved by _____

Date 04/21/2022



Cooler Receipt and Preservation Check Form

R2202960

Wood E&S - Portland ME
Ace Cleaners Site #628133

5



Project/Client Wood Folder Number _____

Cooler received on 4/6/22 by: MS COURIER: ALS UPS FEDEX VELOCITY CLIENT

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

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

8. Temperature Readings Date: 4/6/22 Time: 11:37 ID: IR#7 IR#11 Front: Temp Blank Sample Bottle

Observed Temp (°C)	<u>10.5</u>	<u>9.3</u>	J/UJ, SP for samples collected on 4/5				
Within 0-6°C?	<u>Y</u> N	<u>Y</u> N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

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

All samples held in storage location: R-002 by MS on 4/6/22 at 11:45
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 4/6/22 Time: 1945 by: @

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

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

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

Bottle lot numbers: 2621

Explain all Discrepancies/ Other Comments:

* Bags of ice placed on top of bottles.

* All headspace for VOA marked on the COL.

GTD

added another TB and 2 Teries don't match coc

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: @

PC Secondary Review: MS 4/3/22 *significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

ANALYSIS REQUESTED (Include Method Number and Container Preservative)					
Project Name	Project Number	Report CC	PRESERVATIVE	NUMBER OF CONTAINERS	REMARKS/ ALTERNATE DESCRIPTION
Ace Cleaner	3616206125.0Z		1		
Charles Staples					
511 Congress					
Rothard ME04101					
Phone #	Email				
	Charles.Staples@woodpc.com				
Sample's Signature	Sample's Printed Name				
	Ben Paulus				
CLIENT SAMPLE ID	SAMPLING DATE	MATRIX			
828133-MW108007	4/5/22	GW	X	3	
828133-MW104005	4/5/22	GW	X	2	
828133-GW12009	4/5/22	GW	X	2	2 of 2 vials X
828133-MW120015	4/5/22	GW	X	2	1 of 2 vials X
Trip Blank	3/28/22	GW	X	3	
828133-MW107007	4/5/22	GW	X	2	1 of 2 vials X
828133-MW105007	4/5/22	GW	X	2	1 of 2 vials X
828133-MW101008D	4/5/22	GW	X	2	1 of 2 vials X
828133-GW18008	4/5/22	GW	X	2	1 of 2 vials X
828133-MW12007	4/6/22	GW	X	2	1 of 2 vials X
828133-MW109007	4/5/22	GW	X	2	1 of 2 vials X
SPECIAL INSTRUCTIONS/COMMENTS Metals					
STATE WHERE SAMPLES WERE COLLECTED					
RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY			
Signature	Signature	Signature			
Printed Name	Printed Name	Printed Name			
Firm	Firm	Firm			
Date/Time	Date/Time	Date/Time			
4/6/22 1130	4/6/22 11:30	4/6/22 11:30			
See QAPP ☐					
TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day 2 day 3 day 4 day 5 day Standard (10 business days-No Surcharge) REQUESTED REPORT DATE					
REPORT REQUIREMENTS I. Results Only II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results - QC and Calibration Summaries IV. Data Validation Report with Raw Data Edata Yes No					
INVOICE INFORMATION PO # BILL TO: RECEIVED BY					
C012507268 Charles Staples RECEIVED BY					

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125.02

Service Request: R2202960

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2202960-001	828133-MW108008 ✓	4/5/2022	1340
R2202960-002	828133-MW104005 ✓	4/5/2022	1435
R2202960-003	828133-GW12008 ✓	4/5/2022	1445
R2202960-004	828133-MW12D015 ✓	4/5/2022	1500
R2202960-005	Trip Blank ✓	4/5/2022	0920
R2202960-006	828133-MW103007 ✓	4/5/2022	1330
R2202960-007	828133-MW105007 ✓	4/5/2022	1410
R2202960-008	828133-MW100008D ✓	4/5/2022	1550
R2202960-009	828133-GW8008 ✓	4/5/2022	1630
R2202960-010	828133-MW112007 ✓	4/6/2022	0750
R2202960-011	828133-MW109002 ✓ 828133-MW109007 - corrected in TED - confirmed with Chuck, no revised report needed	4/5/2022	1355
R2202960-012	828133-MW101008 ✓	4/5/2022	1610
R2202960-013	828133-MW106007 ✓	4/5/2022	1420
R2202960-014	828133-GW2012 ✓	4/6/2022	0815
R2202960-015	828133-MW111007 ✓	4/6/2022	0800
R2202960-016	828133-MW101D015 ✓	4/5/2022	1620
R2202960-017	828133-MW100D018 ✓	4/5/2022	1600
R2202960-018	828133-MW100008 ✓	4/5/2022	1550
R2202960-019	828133-MW110010 ✓	4/6/2022	0805
R2202960-020	828133-MW2D020 ✓	4/6/2022	0825
R2202960-021	828133-MW102008 ✓	4/6/2022	0845
R2202960-022	828133-MW107007 ✓	4/6/2022	0855
R2202960-023	Trip Blank 2 Only 1 TB sent on the COC, both TBs are listed as the same sample time and date, confirmed with Chuck - only reporting the first TB that was on the COC.	4/5/2022	0920

GTD

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125.02
Sample Matrix: Water

Service Request: R2202960
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2203801-04

Associated with samples 1-4, 6-7, 9, 12-14, 16-17, 19-20

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	04/13/22 22:59	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/13/22 22:59	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/13/22 22:59	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/13/22 22:59	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/13/22 22:59	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	04/13/22 22:59	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/13/22 22:59	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/13/22 22:59	
1,2,4-Trimethylbenzene	1.0 U	1.0	0.20	1	04/13/22 22:59	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/13/22 22:59	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/13/22 22:59	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/13/22 22:59	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/13/22 22:59	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/13/22 22:59	
1,3,5-Trimethylbenzene	1.0 U	1.0	0.20	1	04/13/22 22:59	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/13/22 22:59	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/13/22 22:59	
1,4-Dioxane	40 U	40	13	1	04/13/22 22:59	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/13/22 22:59	
2-Hexanone	5.0 U	5.0	0.20	1	04/13/22 22:59	
4-Isopropyltoluene	1.0 U	1.0	0.20	1	04/13/22 22:59	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/13/22 22:59	
Acetone	5.0 U	5.0	5.0	1	04/13/22 22:59	
Benzene	1.0 U	1.0	0.20	1	04/13/22 22:59	
Bromochloromethane	1.0 U	1.0	0.20	1	04/13/22 22:59	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/13/22 22:59	
Bromoform	1.0 U	1.0	0.25	1	04/13/22 22:59	
Bromomethane	1.0 U	1.0	0.70	1	04/13/22 22:59	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/13/22 22:59	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/13/22 22:59	
Chlorobenzene	1.0 U	1.0	0.20	1	04/13/22 22:59	
Chloroethane	1.0 U	1.0	0.23	1	04/13/22 22:59	
Chloroform	1.0 U	1.0	0.24	1	04/13/22 22:59	
Chloromethane	0.32 J	1.0	0.28	1	04/13/22 22:59	
Cyclohexane	1.0 U	1.0	0.26	1	04/13/22 22:59	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/13/22 22:59	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/13/22 22:59	
Dichloromethane	1.0 U	1.0	0.65	1	04/13/22 22:59	
Ethylbenzene	1.0 U	1.0	0.20	1	04/13/22 22:59	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/13/22 22:59	
Methyl Acetate	2.0 U	2.0	0.33	1	04/13/22 22:59	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/13/22 22:59	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/13/22 22:59	

Samples ND - no quals

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125.02
Sample Matrix: Water

Service Request: R2202960
Date Collected: 04/06/22
Date Received: 04/06/22
Date Analyzed: 04/14/22
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: 828133-MW2D020
Lab Code: R2202960-020
Analysis Method: 8260C
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2203847-05			Duplicate Matrix Spike RQ2203847-06			70-130		RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	<20 RPD	
1,1,1-Trichloroethane (TCA)	2.0 U	103	100	103	113	100	113	74-127	10	30
1,1,2,2-Tetrachloroethane	2.0 U	84.3	100	84	97.8	100	98	72-122	15	30
1,1,2-Trichloroethane	2.0 U	92.0	100	92	96.5	100	97	82-121	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0 U	98.2	100	98	106	100	106	50-147	8	30
1,1-Dichloroethane (1,1-DCA)	2.0 U	97.3	100	97	115	100	115	74-132	16	30
1,1-Dichloroethene (1,1-DCE)	2.0 U	109	100	109	112	100	112	71-118	2	30
1,2,3-Trichlorobenzene	2.0 U	89.7	100	90	95.8	100	96	59-129	7	30
1,2,4-Trichlorobenzene	2.0 U	90.4	100	90	96.4	100	96	69-122	6	30
1,2,4-Trimethylbenzene	2.0 U	97.2	100	97	105	100	105	73-133	8	30
1,2-Dibromo-3-chloropropane (DBCP)	4.0 U	88.8	100	89	93.9	100	94	37-150	6	30
1,2-Dibromoethane	2.0 U	87.2	100	87	93.1	100	93	67-127	7	30
1,2-Dichlorobenzene	2.0 U	91.6	100	92	96.1	100	96	77-120	5	30
1,2-Dichloroethane	2.0 U	92.5	100	93	103	100	103	68-130	10	30
1,2-Dichloropropane	2.0 U	91.3	100	91	97.0	100	97	79-124	6	30
1,3,5-Trimethylbenzene	2.0 U	94.6	100	95	104	100	104	81-131	9	30
1,3-Dichlorobenzene	2.0 U	91.3	100	91	94.7	100	95	83-121	4	30
1,4-Dichlorobenzene	2.0 U	88.3	100	88	92.3	100	92	82-120	4	30
1,4-Dioxane	80 U	1670	2000	83	1850	2000	92	44-154	10	30
2-Butanone (MEK)	10 U	82.5	100	83	103	100	103	61-137	22	30
2-Hexanone	10 U	88.6	100	89	98.1	100	98	56-132	10	30
4-Isopropyltoluene	2.0 U	98.4	100	98	104	100	104	78-133	6	30
4-Methyl-2-pentanone	10 U	90.8	100	91	102	100	102	60-141	12	30
Acetone	10 U	107	100	107	118	100	118	35-183	10	30
Benzene	2.0 U	98.4	100	98	101	100	101	76-129	3	30
Bromochloromethane	2.0 U	88.2	100	88	96.7	100	97	80-122	9	30
Bromodichloromethane	2.0 U	96.6	100	97	106	100	106	78-133	9	30
Bromoform	2.0 U	103	100	103	113	100	113	58-133	10	30
Bromomethane	2.0 U	90.1	100	90	90.2	100	90	10-184	<1	30
Carbon Disulfide	2.0 U	106	100	106	112	100	112	59-140	6	30
Carbon Tetrachloride	2.0 U	96.2	100	96	107	100	107	65-135	11	30
Chlorobenzene	2.0 U	94.6	100	95	99.9	100	100	76-125	5	30
Chloroethane	2.0 U	122	100	122	129	100	129	48-146	6	30
Chloroform	2.0 U	95.4	100	95	108	100	108	75-130	12	30

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

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

GTD

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

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

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125.02

Service Request: R2202960
Date Analyzed: 04/13/22 21:31

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
File ID: I:\ACQUDATA\msvov12\Data\041322\L2846.D\
Signal ID: 1

Calibration Date: 2/3/2022
Calibration ID: RC2200014
Analysis Lot: 760455
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	52.8	0.7396	0.7815	5.7	NA	±20	Average RF
1,1,2,2-Tetrachloroethane	50.0	46.7	1.2412	1.1589	-6.6	NA	±20	Average RF
1,1,2-Trichloroethane	50.0	45.6	0.3611	0.3291	-8.9	NA	±20	Average RF
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.2	0.4992	0.5212	4.4	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	52.8	1.0295	1.0865	5.5	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	51.7	0.5089	0.5263	3.4	NA	±20	Average RF
1,2,3-Trichlorobenzene	50.0	52.5	1.3048	1.3692	4.9	NA	±20	Average RF
1,2,4-Trichlorobenzene	50.0	52.5	1.2843	1.3475	4.9	NA	±20	Average RF
1,2,4-Trimethylbenzene	50.0	49.2	3.2918	3.2367	-1.7	NA	±20	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	50.9	0.2417	0.2389	NA	1.9	±20	Quadratic
1,2-Dibromoethane	50.0	46.9	0.4073	0.3819	-6.2	NA	±20	Average RF
1,2-Dichlorobenzene	50.0	49.4	1.796	1.775	-1.2	NA	±20	Average RF
1,2-Dichloroethane	50.0	48.7	0.5177	0.5042	-2.6	NA	±20	Average RF
1,2-Dichloropropane	50.0	45.2	0.3926	0.3546	-9.7	NA	±20	Average RF
1,3,5-Trimethylbenzene	50.0	50.2	3.2205	3.2361	0.5	NA	±20	Average RF
1,3-Dichlorobenzene	50.0	46.4	1.8202	1.6878	-7.3	NA	±20	Average RF
1,4-Dichlorobenzene	50.0	46.0	1.8876	1.7359	-8.0	NA	±20	Average RF
1,4-Dioxane	1000	892	0.0098	0.0088	-10.8	NA	±20	Average RF
2-Butanone (MEK)	50.0	50.6	0.4775	0.4828	1.1	NA	±20	Average RF
2-Hexanone	50.0	44.4	0.4699	0.4174	-11.2	NA	±20	Average RF
4-Isopropyltoluene	50.0	49.7	3.4307	3.41	-0.6	NA	±20	Average RF
4-Methyl-2-pentanone	50.0	46.0	0.5401	0.4969	-8.0	NA	±20	Average RF
Acetone	50.0	56.4	0.3085	0.3479	12.8	NA	±20	Average RF
Benzene	50.0	48.9	1.5166	1.4839	-2.2	NA	±20	Average RF
Bromochloromethane	50.0	47.1	0.3928	0.3697	-5.9	NA	±20	Average RF
Bromodichloromethane	50.0	48.6	0.4065	0.3954	-2.7	NA	±20	Average RF
Bromoform	50.0	58.9	0.3167	0.3553	NA	17.8	±20	Quadratic
Bromomethane	50.0	36.1	0.5512	0.3362	NA	-27.8*	±20	Quadratic
Carbon Disulfide	50.0	54.1	1.5255	1.6517	8.3	NA	±20	Average RF
Carbon Tetrachloride	50.0	50.8	0.2924	0.2968	1.5	NA	±20	Average RF
Chlorobenzene	50.0	49.0	1.1186	1.0972	-1.9	NA	±20	Average RF
Chloroethane	50.0	56.6	0.4208	0.4767	13.3	NA	±20	Average RF
Chloroform	50.0	52.2	0.997	1.0417	4.5	NA	±20	Average RF
Chloromethane	50.0	44.9	0.6246	0.5607	-10.2	NA	±20	Average RF
Cyclohexane	50.0	49.4	0.3239	0.3199	-1.2	NA	±20	Average RF
Dibromochloromethane	50.0	60.2	0.2605	0.3048	NA	20.5	±20	Quadratic
Dichlorodifluoromethane (CFC 12)	50.0	48.0	0.7299	0.7005	-4.0	NA	±20	Average RF
Dichloromethane	50.0	54.5	0.6422	0.6285	NA	9.0	±20	Quadratic
Ethylbenzene	50.0	49.4	0.6013	0.5938	-1.2	NA	±20	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125.02

Service Request: R2202960
Date Analyzed: 04/14/22 10:40

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
File ID: I:\ACQUDATA\msvoa12\Data\041422\L2876.D\
Signal ID: 1

Calibration Date: 2/3/2022
Calibration ID: RC2200014
Analysis Lot: 760562
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	53.7	0.7396	0.7944	7.4	NA	±20	Average RF
1,1,2,2-Tetrachloroethane	50.0	45.9	1.2412	1.139	-8.2	NA	±20	Average RF
1,1,2-Trichloroethane	50.0	46.0	0.3611	0.332	-8.1	NA	±20	Average RF
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.9	0.4992	0.5482	9.8	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	50.5	1.0295	1.0405	1.1	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	53.4	0.5089	0.5432	6.8	NA	±20	Average RF
1,2,3-Trichlorobenzene	50.0	51.5	1.3048	1.3438	3.0	NA	±20	Average RF
1,2,4-Trichlorobenzene	50.0	51.9	1.2843	1.3336	3.8	NA	±20	Average RF
1,2,4-Trimethylbenzene	50.0	52.3	3.2918	3.4437	4.6	NA	±20	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	48.6	0.2417	0.2265	NA	-2.9	±20	Quadratic
1,2-Dibromoethane	50.0	46.6	0.4073	0.3795	-6.8	NA	±20	Average RF
1,2-Dichlorobenzene	50.0	49.7	1.796	1.7869	-0.5	NA	±20	Average RF
1,2-Dichloroethane	50.0	46.8	0.5177	0.4847	-6.4	NA	±20	Average RF
1,2-Dichloropropane	50.0	46.2	0.3926	0.3631	-7.5	NA	±20	Average RF
1,3,5-Trimethylbenzene	50.0	53.1	3.2205	3.4181	6.1	NA	±20	Average RF
1,3-Dichlorobenzene	50.0	49.2	1.8202	1.7914	-1.6	NA	±20	Average RF
1,4-Dichlorobenzene	50.0	48.3	1.8876	1.8235	-3.4	NA	±20	Average RF
1,4-Dioxane	1000	964	0.0098	0.0095	-3.6	NA	±20	Average RF
2-Butanone (MEK)	50.0	47.4	0.4775	0.4523	-5.3	NA	±20	Average RF
2-Hexanone	50.0	43.1	0.4699	0.4047	-13.9	NA	±20	Average RF
4-Isopropyltoluene	50.0	53.0	3.4307	3.6346	5.9	NA	±20	Average RF
4-Methyl-2-pentanone	50.0	44.4	0.5401	0.4796	-11.2	NA	±20	Average RF
Acetone	50.0	50.0	0.3085	0.3083	-0.1	NA	±20	Average RF
Benzene	50.0	48.0	1.5166	1.4544	-4.1	NA	±20	Average RF
Bromochloromethane	50.0	49.0	0.3928	0.3852	-1.9	NA	±20	Average RF
Bromodichloromethane	50.0	52.7	0.4065	0.4288	5.5	NA	±20	Average RF
Bromoform	50.0	55.3	0.3167	0.33	NA	10.6	±20	Quadratic
Bromomethane	50.0	42.1	0.5512	0.3908	NA	-15.8	±20	Quadratic
Carbon Disulfide	50.0	51.3	1.5255	1.564	2.5	NA	±20	Average RF
Carbon Tetrachloride	50.0	52.7	0.2924	0.3079	5.3	NA	±20	Average RF
Chlorobenzene	50.0	49.4	1.1186	1.1051	-1.2	NA	±20	Average RF
Chloroethane	50.0	61.9	0.4208	0.5207	23.7*	NA	±20	Average RF
Chloroform	50.0	52.6	0.997	1.0483	5.1	NA	±20	Average RF
Chloromethane	50.0	48.5	0.6246	0.6061	-3.0	NA	±20	Average RF
Cyclohexane	50.0	49.3	0.3239	0.3196	-1.3	NA	±20	Average RF
Dibromochloromethane	50.0	61.4	0.2605	0.3116	NA	22.9*	±20	Quadratic
Dichlorodifluoromethane (CFC 12)	50.0	53.9	0.7299	0.7869	7.8	NA	±20	Average RF
Dichloromethane	50.0	50.9	0.6422	0.5869	NA	1.9	±20	Quadratic
Ethylbenzene	50.0	51.5	0.6013	0.6191	3.0	NA	±20	Average RF

High bias' - samples ND
- no quals

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133

Service Request: R2202960
Calibration Date: 2/3/2022

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2200014
Instrument ID: R-MS-12

Signal ID: 1

Analyte

Toluene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	20.000	1.475	06	50.000	1.561	07	100.000	1.631	08	150.000	1.651
09	200.000	1.632									

Toluene-d8

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	1.499	05	20.000	1.313	06	50.000	1.366	07	100.000	1.346
08	200.000	1.283									

Trichloroethene (TCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4622	02	1.000	0.4156	03	2.000	0.3337	04	5.000	0.3841
05	20.000	0.3119	06	50.000	0.321	07	100.000	0.3509	08	150.000	0.3616
09	200.000	0.3607									

Trichlorofluoromethane (CFC 11)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8749	02	1.000	0.8783	03	2.000	0.7001	04	5.000	0.752
05	20.000	0.703	06	50.000	0.7184	07	100.000	0.7576	08	150.000	0.7889
09	200.000	0.7809									

Vinyl Chloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6097	02	1.000	0.7395	03	2.000	0.638	04	5.000	0.6939
05	20.000	0.5995	06	50.000	0.6371	07	100.000	0.6675	08	150.000	0.6801
09	200.000	0.6753									

cis-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7559	02	1.000	0.626	03	2.000	0.5692	04	5.000	0.6796
05	20.000	0.6263	06	50.000	0.6183	07	100.000	0.6469	08	150.000	0.6551
09	200.000	0.6437									

cis-1,3-Dichloropropene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5939	02	1.000	0.6044	03	2.000	0.511	04	5.000	0.5314
05	20.000	0.5107	06	50.000	0.5449	07	100.000	0.5858	08	150.000	0.6093
09	200.000	0.6086									

m,p-Xylenes

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.8541	02	2.000	0.7686	03	4.000	0.7063	04	10.000	0.7784
05	40.000	0.6964	06	100.000	0.6918	07	200.000	0.7717	08	300.000	0.7706
09	400.000	0.7494									

n-Butylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	3.404	03	2.000	3.086	04	5.000	3.167	05	20.000	2.809

GTD

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133

Service Request: R2202960
Calibration Date: 2/3/2022

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2200014
Instrument ID: R-MS-12

Signal ID: 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Chloromethane	TRG	Average RF	% RSD	7.0	≤20	0.6246	0.100
Cyclohexane	TRG	Average RF	% RSD	8.0	≤20	0.3239	0.100
Dibromochloromethane	TRG	Quadratic	COD	0.9975	≥0.99	0.2605	0.100
Dibromofluoromethane	SURR	Average RF	% RSD	6.3	≤20	0.2754	
Dichlorodifluoromethane (CFC 12)	TRG	Average RF	% RSD	9.4	≤20	0.7299	0.100
Dichloromethane	TRG	Quadratic	COD	0.9992	≥0.99	0.6422	0.100
Ethylbenzene	TRG	Average RF	% RSD	7.0	≤20	0.6013	0.100
Isopropylbenzene (Cumene)	TRG	Average RF	% RSD	9.6	≤20	3.507	0.100
Methyl Acetate	TRG	Average RF	% RSD	6.8	≤20	0.7595	0.100
Methyl tert-Butyl Ether	TRG	Average RF	% RSD	3.2	≤20	2.087	0.100
Methylcyclohexane	TRG	Average RF	% RSD	5.9	≤20	0.4596	0.100
Naphthalene	TRG	Average RF	% RSD	6.3	≤20	4.567	
Styrene	TRG	Average RF	% RSD	4.1	≤20	1.288	0.300
Tetrachloroethene (PCE)	TRG	Average RF	% RSD	12.9	≤20	0.2948	0.200
Toluene	TRG	Average RF	% RSD	4.8	≤20	1.617	0.400
Toluene-d8	SURR	Average RF	% RSD	6.1	≤20	1.361	
Trichloroethene (TCE)	TRG	Average RF	% RSD	13.0 ✓	≤20	0.3668 ✓	0.200
Trichlorofluoromethane (CFC 11)	TRG	Average RF	% RSD	8.6	≤20	0.7727	0.100
Vinyl Chloride	TRG	Average RF	% RSD	6.6	≤20	0.6601	0.100
cis-1,2-Dichloroethene	TRG	Average RF	% RSD	7.9	≤20	0.6468	0.100
cis-1,3-Dichloropropene	TRG	Average RF	% RSD	7.4	≤20	0.5667	0.200
m,p-Xylenes	TRG	Average RF	% RSD	6.8	≤20	0.7541	0.100
n-Butylbenzene	TRG	Average RF	% RSD	7.2	≤20	3.221	
n-Propylbenzene	TRG	Average RF	% RSD	5.5	≤20	4.359	
o-Xylene	TRG	Average RF	% RSD	7.1	≤20	0.7449	0.300
sec-Butylbenzene	TRG	Average RF	% RSD	6.3	≤20	3.956	
tert-Butylbenzene	TRG	Average RF	% RSD	6.5	≤20	2.645	
trans-1,2-Dichloroethene	TRG	Average RF	% RSD	7.6	≤20	0.5821	0.100
trans-1,3-Dichloropropene	TRG	Average RF	% RSD	6.6	≤20	0.5285	0.100

GTD

Data Path : I:\ACQUDATA\msvoa12\Data\041322\
 Data File : L2865.D
 Acq On : 14 Apr 2022 4:27 am
 Operator : K.Ruest
 Sample : R2202960-004|2.0
 Misc : WOOD 8260 T4
 ALS Vial : 47 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Apr 19 14:51:08 2022
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020322.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Feb 04 12:56:45 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.450	168	327530	50.00	ppb	0.01
43) 1,4-Difluorobenzene	6.523	114	560480	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	496396	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	232512	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	158514	51.34	ppb	0.01
Spiked Amount	50.000	Range	80 - 116	Recovery	=	102.68%
48) surr1,1,2-dichloroetha...	5.852	65	224920	53.25	ppb	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	106.50%
65) SURR3,Toluene-d8	8.315	98	746926	48.95	ppb	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	97.90%
70) SURR2,BFB	10.870	95	265436	47.22	ppb	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	94.44%
Target Compounds						Qvalue
4) Vinyl Chloride	1.408	62	14428	3.34	ppb	81
13) 1,1-Dicethene	2.323	96	1064	0.32	ppb	# 51
15) Acetone	2.396	43	3363	1.66	ppb	76
26) trans-1,2-Dichloroethene	3.091	96	3767	0.99	ppb	# 43
34) cis-1,2-Dichloroethene	4.444	96	339550	80.15	ppb	89
54) Trichloroethene	6.846	130	9941	2.42	ppb	# 80
72) Tetrachloroethene	8.974	164	6335	2.16	ppb	# 77

(#) = qualifier out of range (m) = manual integration (+) = signals summed

GTD

DUSR Calculations Sheet

Sample ID: 828133-MW12D015

TC: trichloroethene

ICAL Level: N/A

Val File Result for TC: 4.8 ug/L

Ical Calc

No raw data for levels provided - assuming the ICAL is correct

Area TC	1	0.4622
Area IS	2	0.4156
	3	0.3337
Conc TC	4	0.3841
Conc IS	5	0.3119
	6	0.321
RRF =	7	0.3509
	8	0.3616
	9	0.3607
	10	
Avg RRF =		0.366856
Std Dev =		0.047836
%RSD =		13.03944

Sample Calc

Area TC	9941	DF	2
Area IS	560480		
Conc IS	50		
Avg RRF	0.366856		
Conc TC =	2.41738 µg/L	Conc TC =	4.834759

Notes:

Green = matched reported value

Red = did not match reported value

GTD

Sample ID:

828133-MW100008 / 828133-MW100008D

RPD < 50 - all within limits

Compound	Result	LabQual	DF	Dup	LabQual	DF	RPD
Chloroform	260			250			3.9
Tetrachloroethene	40000			43000			7.2
Trichloroethene	1500			1400			6.9
Cis-1,2-dichloroethene	2300			1800			24.4

GTD

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133
Sample Matrix: Water

Service Request: R2202959
Date Received: 04/06/2022

CASE NARRATIVE

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

Sample Receipt:

Six water samples were received for analysis at ALS Environmental on 04/06/2022. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Subcontracted Analytical Parameters:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

See attached for CCV review

Method 8260C, 04/13/2022: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 04/13/2022: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

See attached for LCS review - no quals

Method 8260C, 04/15/2022: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

See attached for CCV review

Method 8260C, 04/15/2022: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

See attached for CCV review

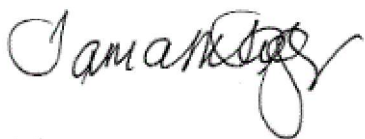
Method 8260C, 04/15/2022: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

See attached for LCS review - no quals

Volatiles by GC:

No significant anomalies were noted with this analysis.

GTD



Approved by _____

Date 05/09/2022



Cooler Receipt and Preservation Check Form

R2202959

Wood E&S - Portland ME
Ace Cleaners Site #828133

5

Project/Client Wood Folder Number _____Cooler received on 4/6/22 by: MS COURIER: ALS UPS FEDEX VELOCITY CLIENT

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

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

8. Temperature Readings Date: 4/6/22 Time: 11:37 ID: IR#7 IR#11 Front: Temp Blank Sample Bottle

Observed Temp (°C)	<u>10.5</u>	<u>9.3</u>	J/UJ, SP				
Within 0-6°C?	<u>Y</u> N	<u>Y</u> N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-002 by MS on 4/6/22 at 11:50
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y NCooler Breakdown/Preservation Check**: Date: 4/6/22 Time: 1735 by: ②

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

pH	Lot of test paper	Reagent	Preserved?	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH	Yes No	<u>214719</u>	<u>4/23</u>				
≤2	<u>225320</u>	HNO ₃	✓	<u>1101071</u>					
≤2		H ₂ SO ₄							
<4		NaHSO ₄							
5-9		For 608pest		No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522		If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃							
		ZnAcetate	- -	<u>221239</u>	<u>1/23</u>				
		HCl	** **						

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

Bottle lot numbers: 21-1116 1-027-008 120701-29AW, 2621

Explain all Discrepancies/ Other Comments:

* Bags of ice placed on top of bottles.

* All headspace for VOA marked on the COL.

GTD

No headspace in all vials - no quals

HPROD	BULK
HTR	FLDT
<u>SUB</u>	HGFB
ALS	LL3541

Labels secondary reviewed by: ②
PC Secondary Review: MS 4/8/22

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

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Analytical Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125.02
Sample Matrix: Water

Service Request: R2202959
Date Collected: NA
Date Received: NA

Sample Name: Method Blank **Units:** ug/L
Lab Code: RQ2203783-04 **Associated with Trip Blank, 828133-MW114010, 828133-MW14D020** **Basis:** NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	04/13/22 13:32	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/13/22 13:32	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/13/22 13:32	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/13/22 13:32	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/13/22 13:32	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	04/13/22 13:32	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/13/22 13:32	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/13/22 13:32	
1,2,4-Trimethylbenzene	1.0 U	1.0	0.20	1	04/13/22 13:32	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/13/22 13:32	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/13/22 13:32	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/13/22 13:32	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/13/22 13:32	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/13/22 13:32	
1,3,5-Trimethylbenzene	1.0 U	1.0	0.20	1	04/13/22 13:32	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/13/22 13:32	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/13/22 13:32	
1,4-Dioxane	40 U	40	13	1	04/13/22 13:32	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/13/22 13:32	
2-Hexanone	5.0 U	5.0	0.20	1	04/13/22 13:32	
4-Isopropyltoluene	1.0 U	1.0	0.20	1	04/13/22 13:32	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/13/22 13:32	
Acetone	5.0 U	5.0	5.0	1	04/13/22 13:32	
Benzene	1.0 U	1.0	0.20	1	04/13/22 13:32	
Bromochloromethane	1.0 U	1.0	0.20	1	04/13/22 13:32	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/13/22 13:32	
Bromoform	1.0 U	1.0	0.25	1	04/13/22 13:32	
Bromomethane	1.0 U	1.0	0.70	1	04/13/22 13:32	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/13/22 13:32	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/13/22 13:32	
Chlorobenzene	1.0 U	1.0	0.20	1	04/13/22 13:32	
Chloroethane	1.0 U	1.0	0.23	1	04/13/22 13:32	
Chloroform	1.0 U	1.0	0.24	1	04/13/22 13:32	
Chloromethane	U @ RL, BL1 in 828133-MW114010 Other ND - no quals	0.29 J	1.0	1	04/13/22 13:32	
Cyclohexane	1.0 U	1.0	0.26	1	04/13/22 13:32	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/13/22 13:32	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/13/22 13:32	
Dichloromethane	1.0 U	1.0	0.65	1	04/13/22 13:32	
Ethylbenzene	1.0 U	1.0	0.20	1	04/13/22 13:32	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/13/22 13:32	
Methyl Acetate	Samples U @ RL, BL1	0.36 J	2.0	1	04/13/22 13:32	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/13/22 13:32	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/13/22 13:32	

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Analytical Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125.02
Sample Matrix: Water

Service Request: R2202959
Date Collected: NA
Date Received: NA

Sample Name: Method Blank **Associated with 828133-GW014012, 828133-MW113011D, 828133-MW113011**
Lab Code: RQ2203914-04 **Units:** ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	04/15/22 13:00	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/15/22 13:00	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/15/22 13:00	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/15/22 13:00	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/15/22 13:00	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	04/15/22 13:00	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/15/22 13:00	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/15/22 13:00	
1,2,4-Trimethylbenzene	1.0 U	1.0	0.20	1	04/15/22 13:00	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/15/22 13:00	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/15/22 13:00	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/15/22 13:00	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/15/22 13:00	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/15/22 13:00	
1,3,5-Trimethylbenzene	1.0 U	1.0	0.20	1	04/15/22 13:00	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/15/22 13:00	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/15/22 13:00	
1,4-Dioxane	40 U	40	13	1	04/15/22 13:00	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/15/22 13:00	
2-Hexanone	5.0 U	5.0	0.20	1	04/15/22 13:00	
4-Isopropyltoluene	1.0 U	1.0	0.20	1	04/15/22 13:00	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/15/22 13:00	
Acetone	5.0 U	5.0	5.0	1	04/15/22 13:00	
Benzene	1.0 U	1.0	0.20	1	04/15/22 13:00	
Bromochloromethane	1.0 U	1.0	0.20	1	04/15/22 13:00	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/15/22 13:00	
Bromoform	1.0 U	1.0	0.25	1	04/15/22 13:00	
Bromomethane	1.0 U	1.0	0.70	1	04/15/22 13:00	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/15/22 13:00	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/15/22 13:00	
Chlorobenzene	1.0 U	1.0	0.20	1	04/15/22 13:00	
Chloroethane	1.0 U	1.0	0.23	1	04/15/22 13:00	
Chloroform	1.0 U	1.0	0.24	1	04/15/22 13:00	
Chloromethane Samples U @ RL, BL1	0.65 J	1.0	0.28	1	04/15/22 13:00	
Cyclohexane	1.0 U	1.0	0.26	1	04/15/22 13:00	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/15/22 13:00	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/15/22 13:00	
Dichloromethane	1.0 U	1.0	0.65	1	04/15/22 13:00	
Ethylbenzene	1.0 U	1.0	0.20	1	04/15/22 13:00	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/15/22 13:00	
Methyl Acetate	2.0 U	2.0	0.33	1	04/15/22 13:00	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/15/22 13:00	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/15/22 13:00	

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Analytical Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125.02
Sample Matrix: Water

Service Request: R2202959
Date Collected: 04/05/22 09:20
Date Received: 04/06/22 11:30

Sample Name: Trip Blank
Lab Code: R2202959-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	04/13/22 18:59	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/13/22 18:59	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/13/22 18:59	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/13/22 18:59	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/13/22 18:59	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	04/13/22 18:59	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/13/22 18:59	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/13/22 18:59	
1,2,4-Trimethylbenzene	1.0 U	1.0	0.20	1	04/13/22 18:59	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/13/22 18:59	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/13/22 18:59	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/13/22 18:59	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/13/22 18:59	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/13/22 18:59	
1,3,5-Trimethylbenzene	1.0 U	1.0	0.20	1	04/13/22 18:59	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/13/22 18:59	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/13/22 18:59	
1,4-Dioxane	40 U	40	13	1	04/13/22 18:59	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/13/22 18:59	
2-Hexanone	5.0 U	5.0	0.20	1	04/13/22 18:59	
4-Isopropyltoluene	1.0 U	1.0	0.20	1	04/13/22 18:59	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/13/22 18:59	
Acetone	5.0 U	5.0	5.0	1	04/13/22 18:59	
Benzene	1.0 U	1.0	0.20	1	04/13/22 18:59	
Bromochloromethane	1.0 U	1.0	0.20	1	04/13/22 18:59	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/13/22 18:59	
Bromoform	1.0 U	1.0	0.25	1	04/13/22 18:59	
Bromomethane	1.0 U	1.0	0.70	1	04/13/22 18:59	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/13/22 18:59	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/13/22 18:59	
Chlorobenzene	1.0 U	1.0	0.20	1	04/13/22 18:59	
Chloroethane	1.0 U	1.0	0.23	1	04/13/22 18:59	
Chloroform	1.0 U	1.0	0.24	1	04/13/22 18:59	
Chloromethane	1.0 U	1.0	0.28	1	04/13/22 18:59	
Cyclohexane	1.0 U	1.0	0.26	1	04/13/22 18:59	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/13/22 18:59	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/13/22 18:59	
Dichloromethane	1.0 U	1.0	0.65	1	04/13/22 18:59	
Ethylbenzene	1.0 U	1.0	0.20	1	04/13/22 18:59	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/13/22 18:59	
Methyl Acetate	Samples 828133-MW114010 and 828133-MW14D020 U @ RL, BL2	0.39 BJ	2.0	0.33	1	04/13/22 18:59
Methyl tert-Butyl Ether		1.0 U	1.0	0.20	1	04/13/22 18:59
Methylcyclohexane		1.0 U	1.0	0.20	1	04/13/22 18:59

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QA/QC Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125.02
Sample Matrix: Water

Service Request: R2202959
Date Analyzed: 04/13/22

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Associated with 828133-MW114010 and 828133-MW14D020

Units:ug/L
Basis:NA

Lab Control Sample

RQ2203783-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	High bias, samples ND - no quals	8260C	29.1	20.0	146 *
Cyclohexane		8260C	21.6	20.0	108
Dibromochloromethane	8260C	20.2	20.0	101	72-128
Dichlorodifluoromethane (CFC 12)	8260C	17.3	20.0	86	59-155
Dichloromethane	8260C	17.8	20.0	89	73-122
Ethylbenzene	8260C	18.4	20.0	92	76-120
Isopropylbenzene (Cumene)	8260C	19.8	20.0	99	77-128
Methyl Acetate	8260C	20.3	20.0	102	61-133
Methyl tert-Butyl Ether	8260C	17.2	20.0	86	75-118
Methylcyclohexane	8260C	22.9	20.0	115	51-129
Naphthalene	8260C	19.8	20.0	99	59-140
Styrene	8260C	20.1	20.0	100	80-124
Tetrachloroethene (PCE)	8260C	20.4	20.0	102	72-125
Toluene	8260C	19.3	20.0	96	79-119
Trichloroethene (TCE)	8260C	21.1	20.0	106	74-122
Trichlorofluoromethane (CFC 11)	8260C	16.8	20.0	84	71-136
Vinyl Chloride	8260C	22.6	20.0	113	74-159
cis-1,2-Dichloroethene	8260C	19.4	20.0	97	80-121
cis-1,3-Dichloropropene	8260C	20.1	20.0	100	77-122
m,p-Xylenes	8260C	39.4	40.0	98	80-126
n-Butylbenzene	8260C	18.0	20.0	90	78-133
n-Propylbenzene	8260C	18.3	20.0	91	78-131
o-Xylene	8260C	19.2	20.0	96	79-123
sec-Butylbenzene	8260C	18.7	20.0	93	75-129
tert-Butylbenzene	8260C	19.3	20.0	97	76-126
trans-1,2-Dichloroethene	8260C	18.9	20.0	94	73-118
trans-1,3-Dichloropropene	8260C	19.6	20.0	98	71-133

GTD

ALS Group USA, Corp.
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QA/QC Report

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125.02
Sample Matrix: Water

Service Request: R2202959
Date Analyzed: 04/15/22

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Associated with 828133-GW014012, 828133-MW113011D, 828133-MW113011

Lab Control Sample

RQ2203914-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	35.3	20.0	176 *	65-135
Cyclohexane	8260C	22.1	20.0	111	69-120
Dibromochloromethane	8260C	18.8	20.0	94	72-128
Dichlorodifluoromethane (CFC 12)	8260C	19.9	20.0	99	59-155
Dichloromethane	8260C	20.6	20.0	103	73-122
Ethylbenzene	8260C	21.9	20.0	110	76-120
Isopropylbenzene (Cumene)	8260C	22.2	20.0	111	77-128
Methyl Acetate	8260C	15.4	20.0	77	61-133
Methyl tert-Butyl Ether	8260C	20.6	20.0	103	75-118
Methyleyclohexane	8260C	22.4	20.0	112	51-129
Naphthalene	8260C	17.6	20.0	88	59-140
Styrene	8260C	20.8	20.0	104	80-124
Tetrachloroethene (PCE)	8260C	21.7	20.0	109	72-125
Toluene	8260C	20.8	20.0	104	79-119
Trichloroethene (TCE)	8260C	19.9	20.0	99	74-122
Trichlorofluoromethane (CFC 11)	8260C	24.0	20.0	120	71-136
Vinyl Chloride	8260C	20.7	20.0	104	74-159
cis-1,2-Dichloroethene	8260C	22.1	20.0	111	80-121
cis-1,3-Dichloropropene	8260C	19.9	20.0	100	77-122
m,p-Xylenes	8260C	44.0	40.0	110	80-126
n-Butylbenzene	8260C	21.3	20.0	106	78-133
n-Propylbenzene	8260C	20.4	20.0	102	78-131
o-Xylene	8260C	22.1	20.0	110	79-123
sec-Butylbenzene	8260C	20.4	20.0	102	75-129
tert-Butylbenzene	8260C	20.0	20.0	100	76-126
trans-1,2-Dichloroethene	8260C	22.8	20.0	114	73-118
trans-1,3-Dichloropropene	8260C	21.8	20.0	109	71-133

GTD

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125.02

Service Request: R2202959
Date Analyzed: 04/13/22 11:26

Continuing Calibration Verification (CCV) Summary Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
File ID: I:\ACQUDATA\msvoa10\data\041322\B2642.D\
Signal ID: 1

Calibration Date: 1/28/2022
Calibration ID: RC2200010
Analysis Lot: 760394
Units: ug/L

Associated with 828133-MW114010 and 828133-MW14D020

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	41.2	0.6079	0.5014	-17.5	NA	±20	Average RF
1,1,2,2-Tetrachloroethane	50.0	43.2	0.7979	0.6887	-13.7	NA	±20	Average RF
1,1,2-Trichloroethane	50.0	47.4	0.2747	0.2604	-5.2	NA	±20	Average RF
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	42.6	0.3881	0.3308	-14.8	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	46.1	0.8465	0.7803	-7.8	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	43.0	0.3776	0.3249	-14.0	NA	±20	Average RF
1,2,3-Trichlorobenzene	50.0	52.0	0.825	0.8584	4.0	NA	±20	Average RF
1,2,4-Trichlorobenzene	50.0	53.4	0.831	0.8872	6.8	NA	±20	Average RF
1,2,4-Trimethylbenzene	50.0	43.8	2.225	1.9499	-12.4	NA	±20	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	53.6	0.1572	0.1733	NA	7.2	±20	Quadratic
1,2-Dibromoethane	50.0	45.4	0.3051	0.2771	-9.2	NA	±20	Average RF
1,2-Dichlorobenzene	50.0	46.4	1.3247	1.2287	-7.2	NA	±20	Average RF
1,2-Dichloroethane	50.0	44.5	0.4866	0.4329	-11.0	NA	±20	Average RF
1,2-Dichloropropane	50.0	48.5	0.3298	0.3196	-3.1	NA	±20	Average RF
1,3,5-Trimethylbenzene	50.0	43.6	2.2403	1.9519	-12.9	NA	±20	Average RF
1,3-Dichlorobenzene	50.0	46.5	1.3079	1.2151	-7.1	NA	±20	Average RF
1,4-Dichlorobenzene	50.0	45.1	1.3602	1.2256	-9.9	NA	±20	Average RF
1,4-Dioxane	1000	948	0.0053	0.005	-5.2	NA	±20	Average RF
2-Butanone (MEK)	50.0	54.4	0.3806	0.4145	8.9	NA	±20	Average RF
2-Hexanone	50.0	48.7	0.391	0.3808	-2.6	NA	±20	Average RF
4-Isopropyltoluene	50.0	45.9	2.3282	2.136	-8.3	NA	±20	Average RF
4-Methyl-2-pentanone	50.0	52.0	0.4903	0.5103	4.1	NA	±20	Average RF
Acetone	50.0	50.1	0.2464	0.247	0.2	NA	±20	Average RF
Benzene	50.0	44.1	1.1452	1.0092	-11.9	NA	±20	Average RF
Bromochloromethane	50.0	47.1	0.2962	0.2789	-5.8	NA	±20	Average RF
Bromodichloromethane	50.0	46.0	0.371	0.3413	-8.0	NA	±20	Average RF
Bromoform	50.0	51.4	0.2006	0.2041	NA	2.9	±20	Quadratic
Bromomethane UJ, CCV%D	50.0	34.3	0.4432	0.2838	NA	-31.4*	±20	Quadratic
Carbon Disulfide	50.0	46.6	1.0844	1.0103	-6.8	NA	±20	Average RF
Carbon Tetrachloride	50.0	46.8	0.3215	0.3007	-6.5	NA	±20	Average RF
Chlorobenzene	50.0	45.0	0.839	0.7555	-10.0	NA	±20	Average RF
Chloroethane	50.0	45.7	0.353	0.3225	-8.6	NA	±20	Average RF
Chloroform	50.0	40.6	0.7801	0.634	-18.7	NA	±20	Average RF
Chloromethane	50.0	60.2	0.6772	0.816	20.5	NA	±20	Average RF
Cyclohexane	50.0	54.0	0.3628	0.3915	7.9	NA	±20	Average RF
Dibromochloromethane	50.0	52.5	0.2912	0.3055	4.9	NA	±20	Average RF
Dichlorodifluoromethane (CFC 12)	50.0	50.7	0.527	0.534	1.3	NA	±20	Average RF
Dichloromethane	50.0	42.3	0.4477	0.3785	-15.4	NA	±20	Average RF
Ethylbenzene	50.0	43.9	0.4476	0.3927	-12.3	NA	±20	Average RF

Client: Wood E&IS - Portland ME
Project: Ace Cleaners Site #828133/3616206125.02

Service Request: R2202959
Date Analyzed: 04/15/22 10:35

Continuing Calibration Verification (CCV) Summary Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
File ID: I:\ACQUDATA\MSVOA14\Data\041522\V3166.D\
Signal ID: 1

Calibration Date: 4/4/2022
Calibration ID: RC2200033
Analysis Lot: 760722
Units: ug/L

Associated with 828133-GW014012, 828133-MW113011D, 828133-MW113011

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	53.3	0.6545	0.6974	6.6	NA	±20	Average RF
1,1,2,2-Tetrachloroethane	50.0	48.7	0.8864	0.8634	-2.6	NA	±20	Average RF
1,1,2-Trichloroethane	50.0	49.9	0.3077	0.3068	-0.3	NA	±20	Average RF
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	57.1	0.3531	0.4034	14.2	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	51.4	0.6885	0.7081	2.8	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	53.1	0.348	0.3696	6.2	NA	±20	Average RF
1,2,3-Trichlorobenzene	50.0	47.9	1.0347	0.9914	-4.2	NA	±20	Average RF
1,2,4-Trichlorobenzene	50.0	49.4	1.0333	1.02	-1.3	NA	±20	Average RF
1,2,4-Trimethylbenzene	50.0	50.6	2.3133	2.3417	1.2	NA	±20	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	40.5	0.2627	0.2152	NA	-18.9	±20	Quadratic
1,2-Dibromoethane	50.0	48.2	0.372	0.3584	-3.7	NA	±20	Average RF
1,2-Dichlorobenzene	50.0	47.6	1.4282	1.3589	-4.8	NA	±20	Average RF
1,2-Dichloroethane	50.0	52.8	0.4399	0.4643	5.5	NA	±20	Average RF
1,2-Dichloropropane	50.0	48.9	0.2939	0.2877	-2.1	NA	±20	Average RF
1,3,5-Trimethylbenzene	50.0	51.2	2.3393	2.3932	2.3	NA	±20	Average RF
1,3-Dichlorobenzene	50.0	49.1	1.4357	1.4098	-1.8	NA	±20	Average RF
1,4-Dichlorobenzene	50.0	48.3	1.478	1.4291	-3.3	NA	±20	Average RF
1,4-Dioxane	1000	863	0.0069	0.0059	-13.7	NA	±20	Average RF
2-Butanone (MEK)	50.0	46.3	0.3199	0.2965	-7.3	NA	±20	Average RF
2-Hexanone	50.0	46.6	0.3407	0.3177	-6.8	NA	±20	Average RF
4-Isopropyltoluene	50.0	52.5	2.4358	2.5553	4.9	NA	±20	Average RF
4-Methyl-2-pentanone	50.0	47.8	0.4187	0.4003	-4.4	NA	±20	Average RF
Acetone	50.0	47.0	0.2358	0.2216	-6.0	NA	±20	Average RF
Benzene	50.0	50.0	1.1048	1.1053	0.0	NA	±20	Average RF
Bromochloromethane	50.0	50.1	0.3248	0.3258	0.3	NA	±20	Average RF
Bromodichloromethane	50.0	49.4	0.4217	0.4162	-1.3	NA	±20	Average RF
Bromoform	50.0	47.9	0.2979	0.2851	-4.3	NA	±20	Average RF
Bromomethane UJ, CCV%D	50.0	38.8	0.2976	0.1918	NA	-22.3*	±20	Quadratic
Carbon Disulfide	50.0	54.6	0.9952	1.0862	9.1	NA	±20	Average RF
Carbon Tetrachloride	50.0	53.9	0.4016	0.4329	7.8	NA	±20	Average RF
Chlorobenzene	50.0	49.7	0.9387	0.9322	-0.7	NA	±20	Average RF
Chloroethane	50.0	55.3	0.3113	0.3443	10.6	NA	±20	Average RF
Chloroform	50.0	52.3	0.7357	0.7696	4.6	NA	±20	Average RF
Chloromethane High bias, samples ND - no quals	50.0	73.6	0.4334	0.638	47.2*	NA	±20	Average RF
Cyclohexane	50.0	53.5	0.2353	0.2516	6.9	NA	±20	Average RF
Dibromochloromethane	50.0	49.5	0.3962	0.3925	-0.9	NA	±20	Average RF
Dichlorodifluoromethane (CFC 12)	50.0	55.7	0.5156	0.5743	11.4	NA	±20	Average RF
Dichloromethane	50.0	48.4	0.4305	0.4168	-3.2	NA	±20	Average RF
Ethylbenzene	50.0	51.7	0.4655	0.4811	3.3	NA	±20	Average RF

RPD <50 - all within limits

Sample ID: 828133-MW113011 / 828133-MW113011D

Compound	Result	LabQual	DF	Dup	LabQual	DF	RPD
1,1-Dichloroethene	11			11			0.0
Tetrachloroethene	780			850			8.6
Trichloroethene	310			310			0.0
Vinyl Chloride	23			19			19.0
Cis-1,2-dichloroethene	490			460			6.3

GTD

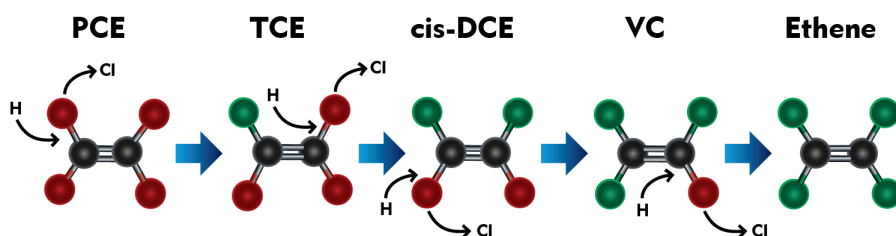
ATTACHMENT 5

MICROBIAL RESULTS

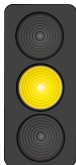
DHC Interpretation

Dehalococcoides 16S rRNA gene (qDHC)

Under anaerobic conditions, tetrachloroethene (PCE) and trichloroethene (TCE) can undergo sequential reductive dechlorination through the daughter products *cis*-dichloroethene (*cis*-DCE) and vinyl chloride to nontoxic ethene (1,2).



While a number of bacterial cultures capable of utilizing PCE and TCE as growth supporting electron acceptors have been isolated (3-7), *Dehalococcoides* spp. may be the most important because they are the only bacterial group that has been isolated to date which is capable of complete reductive dechlorination of PCE to ethene (8). In fact, the presence of *Dehalococcoides* spp. has been associated with complete dechlorination to ethene at sites across North America and Europe (9).

Status	<i>Dehalococcoides</i> spp.	Observation
	$\geq 10^4$ (cells/mL)	Lu et al. proposed that a concentration of 1×10^4 DHC cells/mL could be used as a screening criterion to identify sites where reductive dechlorination will yield a generally useful biodegradation rate (10). Similarly, in an internal study conducted with nearly 1000 groundwater samples obtained from sites across the US, ethene production was observed in approximately 80% of samples in which CENSUS® qDHC results were greater than or equal to 10^4 DHC cells/mL.
	10^1 to $< 10^4$ (cells/mL)	When vinyl chloride reductase genes (See DHC functional genes discussion below) are also detected, complete reductive dechlorination of PCE and TCE to ethene may still occur even with moderate DHC concentrations. When the DHC population is below the 10^4 cells/mL criterion proposed by Lu et al. (10), project managers should carefully consider other site-specific data to determine whether subsurface conditions may be limiting reductive dechlorination. For example, the addition of an electron donor may be able to stimulate DHC growth and enhance anaerobic bioremediation.
	$< 10^1$ (cells/mL)	DHC concentrations are low suggesting that complete reductive dechlorination of PCE and TCE to ethene is unlikely to occur under existing conditions. Enhanced anaerobic bioremediation options (biostimulation or bioaugmentation) may need to be considered.

DHC Functional Genes (*tceA*, *bvcA*, *vcrA*)

A “stall” where daughter products *cis*-DCE and vinyl chloride accumulate can occur at PCE- and TCE-impacted sites especially under MNA conditions. The accumulation of vinyl chloride, generally considered more carcinogenic than the parent compounds, is particularly problematic. Although elevated *Dehalococcoides* concentrations correspond to ethene production in numerous studies, the range of chlorinated ethenes metabolized and cometabolized varies among species and strains within the *Dehalococcoides* genus. For example, *Dehalococcoides ethenogenes* str. 195 metabolizes PCE, TCE, and *cis*-DCE and cometabolizes vinyl chloride (8) to produce ethene. Conversely, *Dehalococcoides* sp. CBDB1 utilizes PCE and TCE but does not cometabolize additional chloroethenes (11). Other *Dehalococcoides* strains, such as BAV1, GT and VS, are known to fully dechlorinate *cis*-DCE and VC to ethene (14,16,19). Quantification of reductive dehalogenase genes is used to more definitively confirm the potential for reductive dechlorination of TCE, *cis*-DCE, and vinyl chloride (12-15).

Functional Gene

Observation

TCE Reductase

<i>tceA</i> gene	The <i>tceA</i> gene encodes the enzyme responsible for reductive dechlorination of TCE to <i>cis</i>-DCE in some strains of <i>Dehalococcoides</i>. Absence of <i>tceA</i> does not preclude the potential for reductive dechlorination of TCE in the field since the <i>tceA</i> gene is not universally distributed among all DHC and is not present in other microorganisms capable of reductive dechlorination of TCE (e.g. <i>Dehalobacter</i>). Detection of the <i>tceA</i> gene provides an additional line of evidence indicating the potential for dechlorination of TCE.
-------------------------	---

Vinyl Chloride Reductase

<i>bvcA</i> gene	The <i>bvcA</i> gene encodes the vinyl chloride reductase enzyme responsible for reductive dechlorination of vinyl chloride to ethene by <i>Dehalococcoides</i> sp. str. BAV1 (16). Presence of <i>bvcA</i> gene indicates the potential for reductive dechlorination of VC to ethene. Absence of both <i>bvcA</i> and <i>vcrA</i> genes suggests VC may accumulate. An internal study with ~1,000 samples showed ethene production was observed in 80% of the samples that the DHC population was greater than or equal to 10⁴ cells/mL. The <i>bvcA</i> gene was detected in over 50% of these samples. Van Der Zaan et al (17) noted that the <i>bvcA</i> gene was the only VC reductase gene detected at three of their sites. Alfred Spormann’s laboratory at Stanford University (18) reported that the <i>bvcA</i> gene was the most abundant and active at the outflow of a PCE fed column study. This section of the column was in the DCE to VC stages of reductive dechlorination thus confirming the importance of the <i>bvcA</i> gene for complete reductive dechlorination.
<i>vcrA</i> gene	The <i>vcrA</i> gene encodes the vinyl chloride reductase enzyme responsible for reductive dechlorination of <i>cis</i>-DCE and vinyl chloride by <i>Dehalococcoides</i> sp. strain VS (14). Presence of <i>vcrA</i> gene indicates the potential for reductive dechlorination of DCE and/or VC to ethene. Absence of both <i>bvcA</i> and <i>vcrA</i> genes suggest VC may accumulate. As with the <i>bvcA</i> gene, detection of the <i>vcrA</i> gene is associated with ethene production in internal studies (67%) and vinyl chloride reduction in independent studies (14, 17).

Reporting

Microbial Insights can provide a variety of data packages and reporting levels to suit the needs of any project. Data packages range from simple analytical reports with results only to more complex data packages that include a report narrative, analytical results, QC data, and supporting materials including all raw data and chain-of-custody documentation. The figure below shows our standard report and explains the way values are reported.

Microbial Insights, Inc.

2340 Stock Creek Blvd. Rockford, TN 37853-3044
Tel. (865) 573-8188 Fax. (865) 573-8133

CENSUS

Client: Company Name
Project: Your Project Name

MI Project Number: Unique Laboratory Identifier
Date Received: Date Samples Arrived

Sample Information

Client Sample ID:	Sample A	Sample B	Sample C
Sample Date:	00/00/0000	00/00/0000	00/00/0000
Units:	cells/mL	cells/mL	cells/mL
Analyst:	Intials	Intials	Intials
Dechlorinating Bacteria			
<i>Dehalococcoides spp.</i>	DHC	1.84E+05	2.76E+02
			2.28E+01 (J)
Functional Genes			
tceA Reductase	TCE	6.00E+01	3.23E+01
bvcA Reductase	BVC	1.17E+04	1.81E+01
vcrA Reductase	VCR	8.42E+04	1.74E+02
			<4.00E-01
			<4.00E-01
			<4.00E-01

Legend:

NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL
< = Result not detected

"J" value

Result is an estimated value. This data qualifier (flag) is used when the target gene is detected but at a concentration or abundance below the practical quantification limit (PQL).

< value

The target gene was not detected at the limit of quantitation (LOQ) reported for that sample.

I = Inhibited

"I" value

QA Procedure indicated that the sample may have exhibited PCR inhibition. Although relatively rare, PCR inhibition can occur due to the presence of metals or humic acids at high concentrations in the sample.

Quality Assurance

Microbial Insights' comprehensive Quality Assurance (QA) Program is the foundation of all laboratory analyses, ensuring that our clients receive high-quality analytical services that are timely, reliable, and meet their intended purpose in a cost effective manner. MI is committed to providing quality data that surpasses regulatory and industry standards, thus enabling the client to make well-informed decisions. MI maintains strict standard operating procedures and QA/QC measures throughout all of the analyses offered. The following Table details specific QA/QC procedures that are used for CENSUS.

QA/QC	Description
Date of Extraction	DNA and RNA extractions are performed the day the samples are received by MI to minimize the possibility of any changes to the microbial community prior to analysis.
Laboratory Method Blanks	An extraction blank (no sample added) is processed alongside each set of field samples from DNA extraction through CENSUS® analysis to ensure that cross contamination has not occurred. Although MI has never experienced this issue, the detection of the CENSUS® target (e.g. <i>Dehalococcoides</i>) in an extraction blank is direct evidence of cross contamination with a sample or contamination of a reagent and would invalidate the results. If this were to occur, MI would re-extract the sample. If not possible to re-extract, MI would contact the client immediately and notate it on the laboratory report.
Laboratory Control Samples (LCS)	A laboratory control sample (LCS) or positive control (target DNA) is included with each CENSUS® plate to confirm amplification and as a continuing calibration check.
Negative Controls	A negative control (no DNA) is included with each CENSUS plate to ensure that cross contamination has not occurred during amplification. As with the extraction blank, detection of CENSUS target (e.g. DHC) in a negative control is direct evidence of contamination and would invalidate the results. If this were to occur, MI would rerun the analysis.

References

1. Freedman, D. L. and J. M. Gossett. 1989. Biological reductive dechlorination of tetrachloroethylene and trichloroethylene to ethylene under methanogenic conditions. *Applied and Environmental Microbiology* 55(9): 2144-2151.
2. DiStefano, T. D., J.M. Gossett, and S.H. Zinder. 1991. Reductive dechlorination of high concentrations of tetrachloroethene to ethene by an anaerobic enrichment culture in the absence of methanogenesis. *Applied and Environmental Microbiology* 57(8): 2287-2292.
3. Gerritse, J., V. Renard, T. M. Pedro Gomes, P. A. Lawson, M. D. Collins, and J. C. Gottschal. 1996. *Desulfitobacterium* sp. Strain PCE1, an anaerobic bacterium that can grow by reductive dechlorination of tetrachloroethene or ortho-chlorinated phenols. *Archives of Microbiology* 165(2): 132-140.
4. Gerritse, J., O. Drzyzga, G. Kloetstra, M. Keijmel, L. P. Wiersum, R. Hutson, M. D. Collins, and J. C. Gottschal. 1999. Influence of different electron donors and acceptors on dehalorespiration of tetrachloroethene by *Desulfitobacterium frappieri* TCE1. *Applied and Environmental Microbiology* 65(12): 5212-5221.
5. Holliger, C., G. Schraa, A.J.M. Stams, and A.J.B. Zehnder. 1993. A highly purified enrichment culture couples the reductive dechlorination of tetrachloroethene to growth. *Applied and Environmental Microbiology* 59 (9): 2991-2997.
6. Krumholz, L. R., R. Sharp, and S. S. Fishbain. 1996. A freshwater anaerobe coupling acetate oxidation to tetrachloroethylene dehalogenation. *Applied and Environmental Microbiology* 62(11): 4108-4113.
7. Löffler, F.E., R.A. Sanford, and J.M. Tiedje. 1996. Initial characterization of a reductive dehalogenase from *Desulfitobacterium chlororespirans* Co23. *Applied and Environmental Microbiology* 62(10): 3809-3813.

8. Maymó-Gatell, X., T. Anguish, and S.H. Zinder. 1999. Reductive dechlorination of chlorinated ethenes and 1,2-dichloroethane by *Dehalococcoides ethenogenes* 195. *Applied and Environmental Microbiology* 65(7): 3108–3113.
9. Hendrickson, E.R., J. Payne, R.M. Young, M.G. Starr, M.P. Perry, S. Fahnestock, D.E. Ellis, and R.C. Eversole. 2002. Molecular analysis of *Dehalococcoides* 16S ribosomal DNA from chloroethene-contaminated sites throughout North America and Europe. *Applied and Environmental Microbiology* 68(2): 485-495.
10. Lu, X., J.T. Wilson, and D.H. Kampbell. 2006. Relationship between *Dehalococcoides* DNA in ground water and rates of reductive dechlorination at field scale. *Water Research* 40:3131-3140.
11. Adrian, L, U. Szewzyk, J. Wecke, and H. Görsch. 2000. Bacterial dehalorespiration with chlorinated benzenes. *Nature* 408(6812): 580-583.
12. Holmes, V.F., J. He, P.K.H. Lee, and L. Alvarez-Cohen. 2006. Discrimination of multiple *Dehalococcoides* strains in a trichloroethene enrichment by quantification of their reductive dehalogenase genes. *Applied and Environmental Microbiology* 72(9): 5877-5883.
13. Lee, P.K.H., D.R. Johnson, V.F. Holmes, J. He, and L. Alvarez-Cohen. 2006. Reductive dehalogenase gene expression as a biomarker for physiological activity of *Dehalococcoides* spp. *Applied and Environmental Microbiology* 72(9): 6161-6168.
14. Müller, J.A., B.M. Rosner, G. von Avendroth, G. Meshulam-Simon, P.L. McCarty, and A.M. Spormann. 2004. Molecular identification of the catabolic vinyl chloride reductase from *Dehalococcoides* sp. strain VS and its environmental distribution. *Applied and Environmental Microbiology* 70(8): 4880-4888.
15. Ritalahti, K.M., B.K. Amos, Y. Sung, Q. Wu, S.S. Koenigsberg, and F.E. Löffler. 2006. Quantitative PCR targeting 16S rRNA and reductive dehalogenase genes simultaneously monitors multiple *Dehalococcoides* strains. *Applied and Environmental Microbiology* 72(4): 2765-2774.
16. Krajmalnik-Brown, R., T. Hölscher, I. N. Thomson, F. M. Saunders, K. M. Ritalahti, and F. E. Löffler. 2004. Genetic identification of a putative vinyl chloride reductase in *Dehalococcoides* sp. strain BAV1. *Applied and Environmental Microbiology* 70:6347–6351.
17. van der Zaan, B., F. Hannes, N. Hoekstra, H. Rijnaarts, W.M. de Vos, H. Smidt, and J. Gerritse. 2010. Correlation of *Dehalococcoides* 16S rRNA and chloroethene-reductive dehalogenase genes with geochemical conditions in chloroethene-contaminated groundwater. *Applied and Environmental Microbiology* 76(3):843-850.
18. Behrens, S., M.F., Azizian, P.J. McMurdie, A. Sabalowsky, M.E. Dolan, L. Semprini, and A.M. Spormann. 2008. Monitoring abundance and expression of *Dehalococcoides* species chloroethene-reductive dehalogenases in a tetrachloroethene-dechlorinating flow column. *Applied and Environmental Microbiology* 74(18):5695-5703.
19. Sung, Y., K. M. Ritalahti, R. P. Apkarian, and F. E. Löffler. 2006. Quantitative PCR confirms purity of strain GT, a novel trichloroethene (TCE)-to-ethene respiring *Dehalococcoides* isolate. *Appl. Environ. Microbiol.* 72:1980-1987



Microbac Laboratories, Inc., Oak Ridge

CERTIFICATE OF ANALYSIS

Z1H0046

John Wood Group, Plc Company

Project Name: DHc Testing

Charles Staples
511 Congress Street, Ste. 200
Portland, ME 04101

Project / PO Number: N/A
Received: 08/06/2021
Reported: 08/13/2021

Analytical Testing Parameters

Client Sample ID:	828133-GW14010	
Sample Matrix:	Aqueous	
Lab Sample ID:	Z1H0046-01	Collection Date: 08/03/2021 12:00

Microbiology	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
QPCR								
Dehalobacter spp. (DHb)	2600		gene copies/L	1		08/04/21 1339	08/12/21 1040	NJM
Dehalococcoides spp. (DHc)	75900		gene copies/L	1		08/04/21 1339	08/12/21 1040	NJM
Dehalogenimonas spp.	3800		gene copies/L	1		08/04/21 1339	08/12/21 1040	NJM
Trichloroethene Reductase (tceA)	<100		gene copies/L	1		08/04/21 1339	08/12/21 1040	NJM
Vinyl Chloride Reductase (bvcA)	200		gene copies/L	1		08/04/21 1339	08/12/21 1040	NJM
Vinyl Chloride Reductase (vcrA)	262000		gene copies/L	1		08/04/21 1339	08/12/21 1040	NJM

Client Sample ID:	828133-MW113011	
Sample Matrix:	Aqueous	
Lab Sample ID:	Z1H0046-02	Collection Date: 08/04/2021 8:35

Microbiology	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
QPCR								
Dehalobacter spp. (DHb)	130000		gene copies/L	1		08/04/21 1339	08/12/21 1040	NJM
Dehalococcoides spp. (DHc)	23300		gene copies/L	1		08/04/21 1339	08/12/21 1040	NJM
Dehalogenimonas spp.	213000		gene copies/L	1		08/04/21 1339	08/12/21 1040	NJM
Trichloroethene Reductase (tceA)	<100		gene copies/L	1		08/04/21 1339	08/12/21 1040	NJM
Vinyl Chloride Reductase (bvcA)	<100		gene copies/L	1		08/04/21 1339	08/12/21 1040	NJM
Vinyl Chloride Reductase (vcrA)	<100		gene copies/L	1		08/04/21 1339	08/12/21 1040	NJM

Client Sample ID:	828133-MW114012	
Sample Matrix:	Aqueous	
Lab Sample ID:	Z1H0046-03	Collection Date: 08/04/2021 8:45

Microbiology	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
QPCR								
Dehalobacter spp. (DHb)	3900		gene copies/L	1		08/04/21 1339	08/12/21 1040	NJM
Dehalococcoides spp. (DHc)	<100		gene copies/L	1		08/04/21 1339	08/12/21 1040	NJM
Dehalogenimonas spp.	5500		gene copies/L	1		08/04/21 1339	08/12/21 1040	NJM
Trichloroethene Reductase (tceA)	<100		gene copies/L	1		08/04/21 1339	08/12/21 1040	NJM
Vinyl Chloride Reductase (bvcA)	<100		gene copies/L	1		08/04/21 1339	08/12/21 1040	NJM
Vinyl Chloride Reductase (vcrA)	<100		gene copies/L	1		08/04/21 1339	08/12/21 1040	NJM

Definitions

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Z1H0046

Report Comments

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Reviewed and Approved By:

Maraea Clark
Project Manager
Reported: 08/13/2021 11:14

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PHONE: (865) 687-4887 FAX: (703) 925-9366

CHAIN OF CUSTODY

Page 1 of 1



John Wood Group, Plc Company
 PM: Maraea Clark

Project ID: 3616206125
 Permit #: _____
 If drinking water, State Reported?: ☐ Yes ☐ No

(1) Sample Matrix codes
 AR = Air OL = Oil SW = Storm Water
 DW = Dr. Water PC = Paint Chip WP = Wipe
 FO = Food SB = Swab WW = Waste Water
 FT = Filler SD = Soil/Solid FB = Field Blank
 GW = Gr. Water SL = Sludge TB = Trip Blank

(2) Sample Type codes
 G = Grab C = Composite

Report To: Chuck Staples
 Address: 511 Burgess
Portland ME 04101
 Phone: 207-450-9772 Fax: _____
 E-mail: chuck.staples@wood.plc.com

Invoice To: Same
 Address: _____
 P.O. #: _____
 Quote #: _____

Sample Identification	Sample Date	Sample Time	Sample Matrix	Sample Type	# of Containers	ANALYSIS REQUIRED												Special Instructions / notes:	
						Dehalococcoides spp by qPCR	trcA reductase qPCR	bvcA reductase qPCR	vcrA reductase qPCR	Dehalobacter spp by qPCR	Dehalogenimonas spp by qPCR								
828133-6W114010	08/03/21	1200	GW	G	1	X	X	X	X	X	X								
828133-6W113011	08/04/21	0835	GW	G	1	X	X	X	X	X	X								
828133-6W114012	08/04/21	0845	GW	G	1	X	X	X	X	X	X								

Samples collected by [please print]: Ben Paulus

PRIORITY: ☐ Same Day (+200%) ☐ Next Day (+100%) ☐ 2 Day (+50%) ☐ 3 Day (+25%) ☐ 4 Day (+10%)

All rush priority orders require prior approval.

Relinquished By: Ben Paulus Date: 08/05/21 Time: 3:41 pm Received By: _____

Relinquished By: _____ Date: 08/06/21 Time: 1000 Received By: NJM

Relinquished By: _____ Date: _____ Time: _____ Received By: _____

FOR LAB CHECK-IN ONLY
 Temp Rec'd: -0.3 °C
 Prop. Preserved: X Y N
 Customer #: _____
 Project: Product Analysis
 Proj. Mgr: _____



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CERTIFICATE OF ANALYSIS

Z1J0052

John Wood Group, Plc Company

Project Name: DHc Testing

Charles Staples
511 Congress Street, Ste. 200
Portland, ME 04101

Project / PO Number: C01250732
Received: 10/06/2021
Reported: 10/13/2021

Analytical Testing Parameters

Client Sample ID: 828133-MW113-100421
Sample Matrix: Aqueous
Lab Sample ID: Z1J0052-01

Collection Date: 10/04/2021 9:10

Microbiology	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
QPCR								
Dehalobacter spp. (DHb)	198000		gene copies/L	1		10/08/21 0944	10/08/21 1205	NJM
Dehalococcoides spp. (DHc)	2500		gene copies/L	1		10/08/21 0944	10/08/21 1205	NJM
Dehalogenimonas spp.	37000		gene copies/L	1		10/08/21 0944	10/08/21 1205	NJM
Trichloroethene Reductase (tceA)	<100		gene copies/L	1		10/08/21 0944	10/08/21 1205	NJM
Vinyl Chloride Reductase (bvcA)	<100		gene copies/L	1		10/08/21 0944	10/08/21 1205	NJM
Vinyl Chloride Reductase (vcrA)	<100		gene copies/L	1		10/08/21 0944	10/08/21 1205	NJM

Client Sample ID: 828133-MW114-100421
Sample Matrix: Aqueous
Lab Sample ID: Z1J0052-02

Collection Date: 10/04/2021 11:25

Microbiology	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
QPCR								
Dehalobacter spp. (DHb)	17000		gene copies/L	1		10/08/21 0944	10/08/21 1205	NJM
Dehalococcoides spp. (DHc)	27000		gene copies/L	1		10/08/21 0944	10/08/21 1205	NJM
Dehalogenimonas spp.	61000		gene copies/L	1		10/08/21 0944	10/08/21 1205	NJM
Trichloroethene Reductase (tceA)	<100		gene copies/L	1		10/08/21 0944	10/08/21 1205	NJM
Vinyl Chloride Reductase (bvcA)	<100		gene copies/L	1		10/08/21 0944	10/08/21 1205	NJM
Vinyl Chloride Reductase (vcrA)	<100		gene copies/L	1		10/08/21 0944	10/08/21 1205	NJM

Client Sample ID: 828133-GW140-100421
Sample Matrix: Aqueous
Lab Sample ID: Z1J0052-03

Collection Date: 10/04/2021 13:25

Microbiology	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
QPCR								
Dehalobacter spp. (DHb)	2400		gene copies/L	1		10/08/21 0944	10/08/21 1205	NJM
Dehalococcoides spp. (DHc)	276000		gene copies/L	1		10/08/21 0944	10/08/21 1205	NJM
Dehalogenimonas spp.	1400000		gene copies/L	1		10/08/21 0944	10/08/21 1205	NJM
Trichloroethene Reductase (tceA)	<100		gene copies/L	1		10/08/21 0944	10/08/21 1205	NJM
Vinyl Chloride Reductase (bvcA)	349000		gene copies/L	1		10/08/21 0944	10/08/21 1205	NJM
Vinyl Chloride Reductase (vcrA)	23000		gene copies/L	1		10/08/21 0944	10/08/21 1205	NJM

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Z1L0075

John Wood Group, Plc Company

Project Name: J616201125.02

Charles Staples
511 Congress ST STE 200
Portland, ME 04101

Project / PO Number: N/A
Received: 12/08/2021
Reported: 12/13/2021

Analytical Testing Parameters

Client Sample ID:	828133-MW14-120721	
Sample Matrix:	Aqueous	
Lab Sample ID:	Z1L0075-01	Collection Date: 12/07/2021 9:45

Microbiology	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
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QPCR

Dehalococcoides spp. (DHc)	29200	100	gene copies/L	1		12/10/21 1535	12/10/21 1640	NJM
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Client Sample ID:	828133-MW14D-120721	
Sample Matrix:	Aqueous	
Lab Sample ID:	Z1L0075-02	Collection Date: 12/07/2021 10:00

Microbiology	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
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QPCR

Dehalococcoides spp. (DHc)	186000	100	gene copies/L	1		12/10/21 1535	12/10/21 1640	NJM
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Client Sample ID:	828133-MW113-120721	
Sample Matrix:	Aqueous	
Lab Sample ID:	Z1L0075-03	Collection Date: 12/07/2021 11:25

Microbiology	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
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QPCR

Dehalococcoides spp. (DHc)	74000	100	gene copies/L	1		12/10/21 1535	12/10/21 1640	NJM
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Client Sample ID:	828133-GW14-120721	
Sample Matrix:	Aqueous	
Lab Sample ID:	Z1L0075-04	Collection Date: 12/07/2021 11:50

Microbiology	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
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QPCR

Dehalococcoides spp. (DHc)	1800000	100	gene copies/L	1		12/10/21 1535	12/10/21 1640	NJM
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Reviewed and Approved By:

Maraea Clark
Project Manager
Reported: 12/13/2021 16:13

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CERTIFICATE OF ANALYSIS

Z1L0075

John Wood Group, Plc Company

Project Name: J616201125.02

Charles Staples
511 Congress ST STE 200
Portland, ME 04101

Project / PO Number: N/A
Received: 12/08/2021
Reported: 12/23/2021

Analytical Testing Parameters

Client Sample ID:	828133-MW14-120721	
Sample Matrix:	Aqueous	
Lab Sample ID:	Z1L0075-01	Collection Date: 12/07/2021 9:45

Microbiology	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
QPCR								
Dehalobacter spp. (DHb)	4120		gene copies/L	1		12/17/21 0911	12/22/21 1454	NJM
Dehalococcoides spp. (DHc)	29200	100	gene copies/L	1		12/10/21 1535	12/10/21 1640	NJM
Dehalogenimonas spp.	501000		gene copies/L	1		12/17/21 0911	12/22/21 1454	NJM
Trichloroethene Reductase (tceA)	<100		gene copies/L	1		12/17/21 0911	12/22/21 1454	NJM
Vinyl Chloride Reductase (bvcA)	<100		gene copies/L	1		12/17/21 0911	12/22/21 1454	NJM
Vinyl Chloride Reductase (vcrA)	<100		gene copies/L	1		12/17/21 0911	12/22/21 1454	NJM

Client Sample ID:	828133-MW14D-120721	
Sample Matrix:	Aqueous	
Lab Sample ID:	Z1L0075-02	Collection Date: 12/07/2021 10:00

Microbiology	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
QPCR								
Dehalobacter spp. (DHb)	1510		gene copies/L	1		12/17/21 0911	12/22/21 1454	NJM
Dehalococcoides spp. (DHc)	186000	100	gene copies/L	1		12/10/21 1535	12/10/21 1640	NJM
Dehalogenimonas spp.	629000		gene copies/L	1		12/17/21 0911	12/22/21 1454	NJM
Trichloroethene Reductase (tceA)	4820	100	gene copies/L	1		12/17/21 0911	12/22/21 1454	NJM
Vinyl Chloride Reductase (bvcA)	100000	100	gene copies/L	1		12/17/21 0911	12/22/21 1454	NJM
Vinyl Chloride Reductase (vcrA)	89000	100	gene copies/L	1		12/17/21 0911	12/22/21 1454	NJM

Client Sample ID:	828133-MW113-120721	
Sample Matrix:	Aqueous	
Lab Sample ID:	Z1L0075-03	Collection Date: 12/07/2021 11:25

Microbiology	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
QPCR								
Dehalobacter spp. (DHb)	40200		gene copies/L	1		12/17/21 0911	12/22/21 1454	NJM
Dehalococcoides spp. (DHc)	74000	100	gene copies/L	1		12/10/21 1535	12/10/21 1640	NJM
Dehalogenimonas spp.	333000		gene copies/L	1		12/17/21 0911	12/22/21 1454	NJM
Trichloroethene Reductase (tceA)	348	100	gene copies/L	1		12/17/21 0911	12/22/21 1454	NJM
Vinyl Chloride Reductase (bvcA)	<100		gene copies/L	1		12/17/21 0911	12/22/21 1454	NJM
Vinyl Chloride Reductase (vcrA)	520	100	gene copies/L	1		12/17/21 0911	12/22/21 1454	NJM

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Z1L0075

Client Sample ID: 828133-GW14-120721
Sample Matrix: Aqueous
Lab Sample ID: Z1L0075-04

Collection Date: 12/07/2021 11:50

Microbiology	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
QPCR								
Dehalobacter spp. (DHb)	5970		gene copies/L	1		12/17/21 0911	12/22/21 1454	NJM
Dehalococcoides spp. (DHc)	1800000	100	gene copies/L	1		12/10/21 1535	12/10/21 1640	NJM
Dehalogenimonas spp.	1920000		gene copies/L	1		12/17/21 0911	12/22/21 1454	NJM
Trichloroethene Reductase (tceA)	<100		gene copies/L	1		12/17/21 0911	12/22/21 1454	NJM
Vinyl Chloride Reductase (bvcA)	<100		gene copies/L	1		12/17/21 0911	12/22/21 1454	NJM
Vinyl Chloride Reductase (vcrA)	155000	100	gene copies/L	1		12/17/21 0911	12/22/21 1454	NJM

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Reviewed and Approved By:

Maraia Clark
Project Manager
Reported: 12/23/2021 08:10

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Oak Ridge Division

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Oak Ridge, TN 37830

PHONE: (866) 687-4887

FAX: (703) 925-9366

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5200717

John Wood Group, Plc Company
PM: Maraëa Clark

PM: Maraëa Clark

Project ID: 3616206125.02

Permit #: _____

If drinking water, State Reported?: ☐ Yes ☒ No

Report To: Charles Staples
Address: Wood
511 Congress St
Portland ME 04101
Phone: 207.450.9772 Fax _____
E-mail: Charles.Staples@wood-plc.com

Invoice To:	Same
Address:	
P.O. #:	
Quote #:	

(1) Sample Matrix codes	
AR = Air	OL = Oil
DW = Dr. Water	PC = Paint Chip
FO = Food	SB = Swab
FT = Filter	SD = Soil/Solid
GW = Gr. Water	SL = Sludge
(2) Sample Type codes	
G = Grab	C = Composite

[illegible][illegible]



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CERTIFICATE OF ANALYSIS

Z1J0052

Client Sample ID: 828133-GW14-100421

Sample Matrix: Aqueous

Lab Sample ID: Z1J0052-04

Collection Date: 10/04/2021 13:45

Microbiology	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
QPCR								
Dehalobacter spp. (DHb)	80000		gene copies/L	1		10/08/21 0944	10/08/21 1205	NJM
Dehalococcoides spp. (DHc)	465000		gene copies/L	1		10/08/21 0944	10/08/21 1205	NJM
Dehalogenimonas spp.	9100000		gene copies/L	1		10/08/21 0944	10/08/21 1205	NJM
Trichloroethene Reductase (tceA)	<100		gene copies/L	1		10/08/21 0944	10/08/21 1205	NJM
Vinyl Chloride Reductase (bvcA)	43400		gene copies/L	1		10/08/21 0944	10/08/21 1205	NJM
Vinyl Chloride Reductase (vcrA)	2100000		gene copies/L	1		10/08/21 0944	10/08/21 1205	NJM

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Reviewed and Approved By:

Robert Brooks

Manager, Molecular Biology

Reported: 10/13/2021 16:12

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CERTIFICATE OF ANALYSIS

Z2D0045

John Wood Group, Plc Company

Project Name: DHc Testing

Charles Staples
511 Congress ST STE 200
Portland, ME 04101

Project / PO Number: 20150732
Received: 04/07/2022
Reported: 04/14/2022

Analytical Testing Parameters

Client Sample ID:	828133-MW114010	
Sample Matrix:	Aqueous	
Lab Sample ID:	Z2D0045-01	Collection Date: 04/05/2022 10:10

Microbiology	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
QPCR								
Dehalobacter spp. (DHb)	1110		gene copies/L	1		04/07/22 1205	04/14/22 1551	NJM
Dehalococcoides spp. (DHc)	<100		gene copies/L	1		04/07/22 1206	04/14/22 1544	NJM
Dehalogenimonas spp.	183000		gene copies/L	1		04/07/22 1205	04/14/22 1551	NJM
Trichloroethene Reductase (tceA)	<100		gene copies/L	1		04/07/22 1206	04/14/22 1544	NJM
Vinyl Chloride Reductase (bvcA)	<100		gene copies/L	1		04/07/22 1206	04/14/22 1544	NJM
Vinyl Chloride Reductase (vcrA)	<100		gene copies/L	1		04/07/22 1206	04/14/22 1544	NJM

Client Sample ID:	828133-MW113011	
Sample Matrix:	Aqueous	
Lab Sample ID:	Z2D0045-02	Collection Date: 04/05/2022 9:45

Microbiology	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
QPCR								
Dehalobacter spp. (DHb)	21300		gene copies/L	1		04/07/22 1205	04/14/22 1551	NJM
Dehalococcoides spp. (DHc)	9900	100	gene copies/L	1		04/07/22 1206	04/14/22 1544	NJM
Dehalogenimonas spp.	455000		gene copies/L	1		04/07/22 1205	04/14/22 1551	NJM
Trichloroethene Reductase (tceA)	220	100	gene copies/L	1		04/07/22 1206	04/14/22 1544	NJM
Vinyl Chloride Reductase (bvcA)	<100		gene copies/L	1		04/07/22 1206	04/14/22 1544	NJM
Vinyl Chloride Reductase (vcrA)	1800	100	gene copies/L	1		04/07/22 1206	04/14/22 1544	NJM

Client Sample ID:	828133-GW014012	
Sample Matrix:	Aqueous	
Lab Sample ID:	Z2D0045-03	Collection Date: 04/05/2022 12:10

Microbiology	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
QPCR								
Dehalobacter spp. (DHb)	3500		gene copies/L	1		04/07/22 1205	04/14/22 1551	NJM
Dehalococcoides spp. (DHc)	330000	100	gene copies/L	1		04/07/22 1206	04/14/22 1544	NJM
Dehalogenimonas spp.	2100000		gene copies/L	1		04/07/22 1205	04/14/22 1551	NJM
Trichloroethene Reductase (tceA)	<100		gene copies/L	1		04/07/22 1206	04/14/22 1544	NJM
Vinyl Chloride Reductase (bvcA)	5500	100	gene copies/L	1		04/07/22 1206	04/14/22 1544	NJM
Vinyl Chloride Reductase (vcrA)	710000	100	gene copies/L	1		04/07/22 1206	04/14/22 1544	NJM

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CERTIFICATE OF ANALYSIS

Z2D0045

Client Sample ID: 828133-MW14D020

Sample Matrix: Aqueous

Lab Sample ID: Z2D0045-04

Collection Date: 04/05/2022 12:22

Microbiology	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
QPCR								
Dehalobacter spp. (DHb)	600		gene copies/L	1		04/07/22 1205	04/14/22 1551	NJM
Dehalococcoides spp. (DHc)	31000	100	gene copies/L	1		04/07/22 1206	04/14/22 1544	NJM
Dehalogenimonas spp.	555000		gene copies/L	1		04/07/22 1205	04/14/22 1551	NJM
Trichloroethene Reductase (tceA)	1200	100	gene copies/L	1		04/07/22 1206	04/14/22 1544	NJM
Vinyl Chloride Reductase (bvcA)	8300	100	gene copies/L	1		04/07/22 1206	04/14/22 1544	NJM
Vinyl Chloride Reductase (vcrA)	12400	100	gene copies/L	1		04/07/22 1206	04/14/22 1544	NJM

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Reviewed and Approved By:

Maraea Clark

Project Manager

Reported: 04/14/2022 16:15

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