INVENTUM ENGINEERING, PC

September 6, 2024

Megan Kuczka
Project Manager
New York State Department of Environmental Conservation
700 Delaware Avenue
Buffalo, NY 14209

Re: Indoor Air Sampling Report
Site Name: Buffalo Color Corporation Site Area C
Site No.: C915231
Site Address: 229 Elk Street
Buffalo, New York 14210

Dear Ms. Kuczka:

On behalf of South Buffalo Development Corporation, LLC (SBD), Inventum Engineering, P.C. (Inventum) is pleased to submit this Indoor Air Sampling Report for the former Buffalo Color Corporation (BCC) Area C Brownfield Cleanup Program (BCP) Site (Site No. C915231). The 6.03-acre Area C Site is located at 229 Elk Street in the City of Buffalo, County of Erie, New York and is one of five areas that comprised the former BCC. BCC produced dyes and organic chemicals until its bankruptcy in 2005.

Remedial investigations had previously determined that Site soil contained concentrations of certain metals and organic substances that exceeded the New York State Department of Environmental Conservation (NYSDEC) Commercial Soil Cleanup Objectives (SCOs). Shallow groundwater on the northern half of Area C was found to contain concentrations of volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) that exceeded the NY State Class GA Standards. Remedial activities conducted at the Site are documented in the December 2010 Area C Final Engineering Report (FER) and December 2010 Area C Site Management Plan (SMP)[1].

Additional remedial activities were conducted in accordance with the August 2019 redevelopment Remedial Action Work Plan (RAWP) to upgrade the existing remedial actions to meet the requirements for Restricted-Residential development. Included was the design, construction, and operation of a sub-slab depressurization (SSD) system, which has been in operation since building occupancy was approved in December 2020.

Post-construction communication testing of the SSD was completed in October 2021 and January 2023. Indoor air sampling was conducted in March 2023 in accordance with the June 16, 2022, NYSDEC approved Indoor Air Sampling Work Plan (IAWP). The results of the March 2023 indoor

[1] The FER and SMP are currently being revised to document additional remedial activities and institutional controls/engineering controls put in place since 2010 to allow for Restricted-Residential use. The FER/SMP revisions include an Operations and Maintenance Plan for the SSD system.

air sampling were reported in a September 2023 *Indoor Air Sampling Report,* and based on those results, included a work plan for additional sub-slab and indoor air sampling during the 2023-2024 heating season (November 15, 2023, to March 31, 2024).

The results and summary of the sub-slab and indoor air sampling program conducted in March 2024 is provided below.

Indoor Air Sampling Conditions

Sample Location and Methods

Indoor air and sub-slab samples were collected on March 25, 2024, in general accordance with the following guidance document:

- Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, New York State Department of Health (NYSDOH), Center for Environmental Health Bureau of Environmental Exposure Investigation. October 2006.

Co-located Indoor air and sub-slab samples were collected at four (4) indoor locations (Area C-01, Area C-02, Area C-03, and Area C-04) and one (1) outdoor location (Area C-OA) as shown on Figure 1 and photographs in Attachment A. One (1) 8-hour sample was collected at each sub-slab and indoor air sample location in a laboratory certified clean Summa® canister and submitted to Alpha Analytical Laboratories of Buffalo, New York for Volatile Organic Compound (VOC) analysis using EPA Method TO-15/TO-15-SIM.

The laboratory data report is provided as Attachment B1 and EQUiS files were submitted to the NYSDEC on May 31, 2024. The analytical data package received a third-party data validation review by Vali-Data of WNY, LLC. A data usability summary report (DUSR) is provided in Attachment B2. The DUSR did not identify any data usability issues.

Samples were collected between 7:30AM and 4:30 PM. The inlets of the indoor and outdoor air sample collection canisters were elevated approximately 3-feet above the basement surface or outdoor ground surface during collection. Sub-slab samples were collected from dedicated sample ports shown on Figure 1 and Attachment A. Each location was screened with a photoionization detector (PID) prior to and after sample collection and there were no readings detected.

The outdoor sample (Area C-OA) was located on the northwest corner of the building. Outside weather conditions on the day of sampling between the hours of 7:30AM and 4:30PM included an average temperature of 44 degrees F, relative humidity of 40-percent, winds coming from the southeast at an average speed of 8 miles per hour (mph), and no precipitation. The building heating supply was active during the sampling period and basement temperatures were between 65- and 70-degrees F.

Area C-01 indoor air and sub-slab samples were collected in the southern central section of the basement below the 2nd floor dwelling unit. There were no chemicals noted in the vicinity of the sample location and the area was clear of any construction materials. The area was being utilized

for storage of dry materials in plastic crates. Photoionization detector (PID) readings in the sample area prior to collection were below 1 part per million (ppm).

Area C-02 indoor air and sub-slab samples were collected at the eastern side of the basement. It was noted that shut and sealed containers of epoxy floor coating, floor sealant, Quikrete, and weed killer were stored in the vicinity of sample Area C-02. Photoionization detector (PID) readings in the sample area prior to collection were below 1 part per million (ppm).

Area C-03 indoor air and sub-slab samples were collected in the northeastern area of the basement. Plastic folding tables were stored around the sample location. No chemicals or paints were stored in the immediate vicinity of Area C-03. Photoionization detector (PID) readings in the sample area prior to collection were below 1 part per million (ppm).

Area C-04 indoor air and sub-slab samples were collected in the northern area of the basement adjacent to one of the SSD combined water and soil vapor collection sumps. A dehumidifier was operating in the vicinity of the sample location. Photoionization detector (PID) readings in the sample area prior to collection were below 1 part per million (ppm).

Results

Carbon tetrachloride, Ethylbenzene, Methylene Chloride, o-Xylene, p/m-Xylene, and Tetrachloroethene (PCE) were detected in the indoor air samples (Area C-01, Area C-02, Area C-03, and Area C-04) at concentrations above their respective guideline concentrations in the NYSDOH guidance document[2] (Figure 1). None of the other matrix analytes were detected at concentrations above their respective indoor air guideline concentrations in the NYSDOH guidance document.

Tetrachloroethene (PCE) was detected in the sub-slab samples (Area C-01, Area C-02, Area C-03, and Area C-04) at concentrations above the respective guideline concentration in the NYSDOH guidance document (Figure 1). None of the other matrix analytes were detected at concentrations above their respective sub-slab guideline concentrations in the NYSDOH guidance document. Carbon tetrachloride, Ethylbenzene, Methylene Chloride, o-Xylene, and p/m-Xylene were detected in the sub-slab samples but did not exceed their respective guideline concentrations.

A summary of the sampling results is provided in Table 1. Table 2 summarizes the recommended actions for each sample location against the six NYSDOH matrices (Matrix A through Matrix F). Those analytes detected in an indoor air sample (carbon tetrachloride, Ethylbenzene, Methylene Chloride, o-Xylene, p/m-Xylene, and PCE) or sub-slab sample (PCE) at a concentration above their respective guideline concentration are further discussed below.

Carbon tetrachloride was detected in the outdoor air sample at a similar concentration (0.522 micrograms per cubic meter [µg/m^3]) to the four indoor samples (0.497 µg/m^3 to 0.56 µg/m^3) and sub-slab samples (0.497 µg/m^3 to 0.516 µg/m^3). The indoor air and sub-slab detections should be

[2] Inventum notes that the basement is only utilized on a periodic basis for commercial use and is largely unoccupied a majority of the time. Concentrations detected are several orders of magnitude below OSHA permissible exposure levels.

considered indicative of background levels and the Matrix A recommendation for all locations is *No Further Action* (Table 2).

Methylene chloride concentrations in the indoor air samples (23.2 µg/m^3 to 28.5 µg/m^3) were similar to the concentrations in the sub-slab air samples (24.6 µg/m^3 to 27.7 µg/m^3). Methylene chloride was also detected in the outdoor air sample (1.78 µg/m^3) indicating some background influence. The Matrix B recommendation for all locations is to *Identify Source(s) or Resample or Mitigate* (Table 2).

PCE concentrations in the indoor air samples (130 µg/m^3 to 143 µg/m^3) were similar to the concentrations in the sub-slab air samples (128 µg/m^3 to 148 µg/m^3). PCE concentrations in indoor air samples at each location were above the NYSDOH ambient air guideline of 30 µg/m^3. PCE was also detected in the outdoor air sample (1.49 µg/m^3) indicating some background influence. The Matrix B recommendation for all locations is *Mitigate* (Table 2).

Ethylbenzene concentrations in the indoor air samples (8.51 µg/m^3 to 11.2 µg/m^3) were similar to the concentrations in the sub-slab air samples (8.99 µg/m^3 to 10.4 µg/m^3). Ethylbenzene was not detected in the outdoor air sample. Ethylbenzene was detected in each of the sub-slab samples, but at concentrations below the guideline concentration (60 µg/m^3) in the NYSDOH guidance document. The Matrix D recommendation for Area C-02 and Area C-03 is to *Identify Source(s) or Resample or Mitigate* (Table 2). The recommendation for all other areas is *No Further Action*.

o-Xylene concentrations in the indoor air samples (5.86 µg/m^3 to 7.64 µg/m^3) were similar to the concentrations in the sub-slab samples (6.12 µg/m^3 to 7.21 µg/m^3). O-Xylene was not detected in the outdoor air sample. o-Xylene was detected in each of the sub-slab samples, but at concentrations below the guideline concentration (60 µg/m^3) in the NYSDOH guidance document. The Matrix D recommendation for all locations is *No Further Action (Table 2)*.

p/m-Xylene concentrations in the indoor air samples (28.1 µg/m^3 to 37.6 µg/m^3) were similar to the concentrations in the sub-slab air samples (29.5 µg/m^3 to 34.6 µg/m^3). P/M-Xylene was detected in the outdoor air sample at an estimated concentration of 0.717 µg/m^3. P/M -Xylene was detected in each of the sub-slab samples, but at concentrations below the guideline concentration (200 µg/m^3) in the NYSDOH guidance document. The Matrix E recommendation for all locations is to *Identify Source(s) or Resample or Mitigate* (Table 2).

Sample data is also compared to the NYS Fuel Oil Study upper fence levels[3] and the 90th percentile of the EPA Building Assessment Survey Evaluation (BASE) study (Table 3). 1,1-Dichloroethane (Area C-03) and tetrahydrofuran (all locations) contained concentrations above the fuel oil study upper fence level. Ethanol (all locations) was the only constituent detected at concentrations above the BASE study 90th percentile value.

[3] NYSDOH Summary of Indoor and Outdoor Levels of VOCs from Fuel Oil Heated Homes in NYS, 1997-2003.

Recommendations

The detections of Ethylbenzene, Methylene chloride, o-Xylene, p/m-Xylene, and PCE may, among other factors, be partially attributable to soil vapor intrusion based on (1) similar concentrations of the respective analytes in the indoor and sub-slab air samples and (2) the indoor and sub-slab air samples containing one or two orders of magnitude higher concentrations than the outdoor air sample. Inventum believes the similar concentration ranges in sub-slab and indoor air samples for all VOC detections, not just those on the NYSDOH matrices, also suggests possible short circuiting during sample collection. The ratio of sub-slab to indoor air concentrations also suggests limited dilution and the potential need for additional air exchange capacity in the basement. Additional sub-slab and indoor air sampling is warranted to validate the March 2024 data.

The product inventory conducted during the sampling did note containers of epoxy floor coating in the vicinity of sample Area C-02. Safety Data Sheets (SDS) were provided for this epoxy floor coating in the September 2023 *Indoor Air Sampling Report* where it was noted that the coating composition contains 48,000 milligrams per liter (mg/L) of VOCs [16,000 mg/L including water]. These materials are a potential contributing source to the concentrations in indoor air.

Pressure differentials from the SSD system test ports (Figure 1) were recorded prior to collection of the sub-slab and indoor air samples. Only Test Port #2 near sample Area C-04 had a recordable sub-slab vacuum level (-0.009 inches of water column [wci]) exceeding design criteria of greater than -0.004 wci. There was no pressure differential in the other four test ports; however, the manometers on each of the vapor extraction risers did register a slight vacuum of 0.1 wci which is typical of the SSD system since the beginning of operation.

Inventum and SBD have taken some corrective action since initial submittal of the indoor air and sub-slab testing results in May 2024. These include re-sealing of manometer taps in the vent piping and operation of booster fans along the alignment (Figure 1)[4]. Vent piping at each of the fan locations were also modified to allow use of a digital manometer to more accurately record vacuum levels in the riser piping (Table 4). The noted actions have increased pressure differentials in the sub-slab at all but two locations (Test Port #1 and Test Port #2) compared to levels measured during collection of the sub-slab and indoor air samples in March 2024 (Figure 1).

Inventum will submit a Corrective Measures Implementation Work Plan (CMIWP) within 60 days of approval of this report. The CMIWP will detail:

- Proposed corrective measures to increase air exchange rates in the basement;
- Proposed corrective measures to increase vacuum pressure differentials beneath the slab; and
- Additional sub-slab and indoor air sampling during the 2024-2025 heating season (November 15, 2024, to March 31, 2025) after implementation of proposed corrective measures.

[4] The booster fan locations and serial numbers will be added to the final SSD System OM&M Plan, SMP, and FER.

As always, please do not hesitate to contact me directly at 571.217.3627 with any questions or comments.

Respectfully submitted,

Todd Waldrop

Project Director

Ecc: Andrea Caprio - NYSDEC
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Charlotte Bethoney - NYSDOH
John Yensan – OSC, Inc.
Jon Williams – OSC, Inc.
John Black – Inventum Engineering

Tables

Table 1
Former Buffalo Color - Area C
BCP Site #C915231
Basement Indoor Air Sub-Slab Sampling - All Results

ANALYTE	NYSDOH Indoor Air Vapor Concentration Criteria (a)						NYSDOH Sub-slab Vapor Concentration Criteria (a)						SAMPLE ID:	ARREAC-IA-01		ARREAC-SS-01		ARREAC-IA-02		ARREAC-SS-02		ARREAC-IA-03		ARREAC-SS-03		ARREAC-IA-04		ARREAC-SS-04		ARREAC-OA	
													LAB ID:	L2416214-01		L2416214-02		L2416214-03		L2416214-04		L2416214-05		L2416214-06		L2416214-07		L2416214-08		L2416214-09	
													COLLECTION DATE:	3/25/2024				3/25/2024				3/25/2024				3/25/2024				3/25/2024	
													SAMPLE LOCATION:	Basement - South, Central				Basement - Eastern				Basement - Northeastern				Basement, North by Sump				Northwest Corner	
	NY-IAC-A	NY-IAC-B	NY-IAC-C	NY-IAC-D	NY-IAC-E	NY-IAC-F	NY-SSC-A	NY-SSC-B	NY-SSC-C	NY-SSC-D	NY-SSC-E	NY-SSC-F	SAMPLE INTERVAL:	INDOOR AIR		SOIL VAPOR		INDOOR AIR		SOIL VAPOR		INDOOR AIR		SOIL VAPOR		INDOOR AIR		SOIL VAPOR		OUTDOOR AIR	
													UNITS																		
VOLATILE ORGANICS IN AIR																														
1,1,1-Trichloroethane		3						100					µg/m^3	1.4		1.59		1.45		1.48		2.25		2.21		1.48		1.6		<0.032	U
1,1,2,2-Tetrachloroethane													µg/m^3	<0.357	U	<0.357	U	<0.357	U	<0.357	U	<0.357	U	<0.357	U	<0.357	U	<0.357	U	<0.357	U
1,1,2-Trichloroethane													µg/m^3	<0.318	U	<0.318	U	<0.318	U	<0.318	U	<0.318	U	<0.318	U	<0.318	U	<0.318	U	<0.318	U
1,1-Dichloroethane													µg/m^3	0.344	J	0.376	J	0.364	J	0.344	J	0.603	J	0.639	J	0.393	J	0.385	J	<0.23	U
1,1-Dichloroethene	0.2						6						µg/m^3	<0.031	U	<0.225	U	<0.031	U	<0.225	U	<0.031	U	<0.225	U	<0.031	U	<0.225	U	<0.031	U
1,2,4-Trichlorobenzene													µg/m^3	<0.742	U	<0.742	U	<0.742	U	<0.742	U	<0.742	U	<0.742	U	<0.742	U	<0.742	U	<0.742	U
1,2,4-Trimethylbenzene				2						60			µg/m^3	0.792	J	1.1		0.846	J	0.934	J	0.919	J	1.07		0.914	J	0.914	J	<0.284	U
1,2-Dibromoethane													µg/m^3	<0.418	U	<0.418	U	<0.418	U	<0.418	U	<0.418	U	<0.418	U	<0.418	U	<0.418	U	<0.418	U
1,2-Dichlorobenzene													µg/m^3	<0.372	U	<0.372	U	<0.372	U	<0.372	U	<0.372	U	<0.372	U	<0.372	U	<0.372	U	<0.372	U
1,2-Dichloroethane													µg/m^3	<0.319	U	<0.319	U	<0.319	U	<0.319	U	<0.319	U	<0.319	U	<0.319	U	<0.319	U	<0.319	U
1,2-Dichloropropane													µg/m^3	<0.292	U	<0.292	U	<0.292	U	<0.292	U	<0.292	U	<0.292	U	<0.292	U	<0.292	U	<0.292	U
1,3,5-Trimethylbenzene				2						60			µg/m^3	<0.295	U	0.398	J	0.31	J	0.329	J	0.418	J	0.388	J	0.32	J	0.329	J	<0.295	U
1,3-Butadiene													µg/m^3	<0.137	U	<0.137	U	<0.137	U	<0.137	U	<0.137	U	<0.137	U	<0.137	U	<0.137	U	<0.137	U
1,3-Dichlorobenzene													µg/m^3	<0.467	U	<0.467	U	<0.467	U	<0.467	U	<0.467	U	<0.467	U	<0.467	U	<0.467	U	<0.467	U
1,4-Dichlorobenzene													µg/m^3	<0.497	U	<0.497	U	<0.497	U	<0.497	U	<0.497	U	<0.497	U	<0.497	U	<0.497	U	<0.497	U
1,4-Dioxane													µg/m^3	<0.194	U	<0.194	U	<0.194	U	<0.194	U	<0.194	U	<0.194	U	<0.194	U	<0.194	U	<0.194	U
2,2,4-Trimethylpentane				2						60			µg/m^3	<0.323	U	<0.323	U	<0.323	U	<0.323	U	<0.323	U	<0.323	U	<0.323	U	<0.323	U	<0.323	U
2-Butanone													µg/m^3	8.82		9.32		7.85		8.2		12		10.1		8.35		8.55		0.817	J
2-Hexanone													µg/m^3	1.3		1.45		1.13		1.02		1.61		1.41		0.938		1.03		<0.374	U
3-Chloropropene													µg/m^3	<0.269	U	<0.269	U	<0.269	U	<0.269	U	<0.269	U	<0.269	U	<0.269	U	<0.269	U	<0.269	U
4-Ethyltoluene													µg/m^3	<0.272	U	<0.272	U	<0.272	U	<0.272	U	<0.272	U	<0.272	U	<0.272	U	<0.272	U	<0.272	U
4-Methyl-2-pentanone													µg/m^3	<0.779	U	<0.779	U	<0.779	U	<0.779	U	<0.779	U	<0.779	U	<0.779	U	<0.779	U	<0.779	U
Acetone													µg/m^3	58		63.2		52		59.1		68.2		69.4		54.4		59.1		11	
Benzene				2						60			µg/m^3	0.671		0.738		0.655		0.703		0.725		0.744		0.696		0.7		0.457	J
Benzyl chloride													µg/m^3	<0.486	U	<0.486	U	<0.486	U	<0.486	U	<0.486	U	<0.486	U	<0.486	U	<0.486	U	<0.486	U
Bromodichloromethane													µg/m^3	<0.462	U	<0.462	U	<0.462	U	<0.462	U	<0.462	U	<0.462	U	<0.462	U	<0.462	U	<0.462	U
Bromoform													µg/m^3	<0.616	U	<0.616	U	<0.616	U	<0.616	U	<0.616	U	<0.616	U	<0.616	U	<0.616	U	<0.616	U
Bromomethane													µg/m^3	<0.212	U	<0.212	U	<0.212	U	0.28	J	0.322	J	0.516	J	<0.212	U	0.342	J	<0.212	U
Carbon disulfide													µg/m^3	0.557	J	0.601	J	0.551	J	0.548	J	0.682		0.691		0.607	J	0.595	J	<0.145	U
Carbon tetrachloride	0.2						6						µg/m^3	0.528		0.503	J	0.497		0.516	J	0.522		0.51	J	0.56		0.497	J	0.522	
Chlorobenzene													µg/m^3	<0.238	U	<0.238	U	<0.238	U	<0.238	U	0.267	J	<0.238	U	<0.238	U	<0.238	U	<0.238	U
Chloroethane													µg/m^3	<0.171	U	<0.171	U	<0.171	U	<0.171	U	<0.171	U	0.451	J	<0.171	U	<0.171	U	<0.171	U
Chloroform													µg/m^3	0.41	J	0.41	J	0.469	J	0.415	J	0.498	J	0.513	J	0.425	J	0.415	J	<0.27	U
Chloromethane													µg/m^3	1.19		1.19		1.12		1.27		1.18		1.67		1.21		1.22		1.33	

Table 1
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ANALYTE	NYSDOH Indoor Air Vapor Concentration Criteria (a)						NYSDOH Sub-slab Vapor Concentration Criteria (a)						SAMPLE ID:	ARREAC-IA-01		ARREAC-SS-01		ARREAC-IA-02		ARREAC-SS-02		ARREAC-IA-03		ARREAC-SS-03		ARREAC-IA-04		ARREAC-SS-04		ARREAC-OA	
													LAB ID:	L2416214-01		L2416214-02		L2416214-03		L2416214-04		L2416214-05		L2416214-06		L2416214-07		L2416214-08		L2416214-09	
													COLLECTION DATE:	3/25/2024				3/25/2024				3/25/2024				3/25/2024				3/25/2024	
													SAMPLE LOCATION:	Basement - South, Central				Basement - Eastern				Basement - Northeastern				Basement, North by Sump				Northwest Corner	
	NY-IAC-A	NY-IAC-B	NY-IAC-C	NY-IAC-D	NY-IAC-E	NY-IAC-F	NY-SSC-A	NY-SSC-B	NY-SSC-C	NY-SSC-D	NY-SSC-E	NY-SSC-F	SAMPLE INTERVAL:	INDOOR AIR		SOIL VAPOR		INDOOR AIR		SOIL VAPOR		INDOOR AIR		SOIL VAPOR		INDOOR AIR		SOIL VAPOR		OUTDOOR AIR	
													UNITS																		
VOLATILE ORGANICS IN AIR																															
cis-1,2-Dichloroethene	0.2						6						µg/m^3	<0.04	U	<0.236	U	<0.04	U	<0.236	U	<0.04	U	<0.236	U	<0.04	U	<0.236	U	<0.04	U
cis-1,3-Dichloropropene													µg/m^3	<0.306	U	<0.306	U	<0.306	U	<0.306	U	<0.306	U	<0.306	U	<0.306	U	<0.306	U	<0.306	U
Cyclohexane				2						60			µg/m^3	1.71		1.7		1.42		1.73		1.92		1.8		1.77		1.92		1.11	
Dibromochloromethane													µg/m^3	<0.482	U	<0.482	U	<0.482	U	<0.482	U	<0.482	U	<0.482	U	<0.482	U	<0.482	U	<0.482	U
Dichlorodifluoromethane													µg/m^3	2.82		2.8		2.76		2.76		2.89		2.78		2.86		2.82		2.81	
Ethanol													µg/m^3	906		784		718		852		820		814		914		795		22.6	
Ethyl Acetate													µg/m^3	3.78		4.22		3.86		3.93		3.89		4.29		3.93		4		<1.07	U
Ethylbenzene				2						60			µg/m^3	8.51		9.03		11.2		9.03		11.1		10.4		8.73		8.99		<0.25	U
Freon-113													µg/m^3	0.636	J	0.628	J	0.667	J	0.621	J	0.659	J	0.644	J	0.651	J	0.644	J	0.644	J
Freon-114													µg/m^3	<0.352	U	<0.352	U	<0.352	U	<0.352	U	<0.352	U	<0.352	U	<0.352	U	<0.352	U	<0.352	U
Heptane					6						200		µg/m^3	2.18		2.36		1.99		2.17		2.4		2.38		2.5		2.52		0.602	J
Hexachlorobutadiene													µg/m^3	<0.647	U	<0.647	U	<0.647	U	<0.647	U	<0.647	U	<0.647	U	<0.647	U	<0.647	U	<0.647	U
Isopropanol													µg/m^3	3.15		4.08		3.05		5.58		3.81		5.19		4.55		4.03		0.846	J
Methyl tert butyl ether													µg/m^3	<0.162	U	<0.162	U	<0.162	U	<0.162	U	<0.162	U	<0.162	U	<0.162	U	<0.162	U	<0.162	U
Methylene chloride		3						100					µg/m^3	26		25.8		28.5		27.7		28.2		27.1		23.2		24.6		1.78	
n-Hexane					6						200		µg/m^3	1.99		2.11		1.79		1.88		2.1		2.13		2.22		2.24		0.469	J
Naphthalene				2						60			µg/m^3	<0.409	U	0.456	J	0.498	J	1.32		<0.409	U	0.461	J	<0.409	U	<0.409	U	<0.409	U
o-Xylene				2						60			µg/m^3	5.86		6.34		7.64		6.12		7.64		7.21		6.04		6.21		<0.27	U
p/m-Xylene					6						200		µg/m^3	28.1		29.8		37.6		30.3		35.7		34.6		28.7		29.5		0.717	J
Styrene													µg/m^3	1.11		1.15		1.16		1.32		1.32		1.21		1.34		1.11		2.35	
Tertiary butyl Alcohol													µg/m^3	2.86		3.12		2.6		2.66		3.58		<0.4	U	3.06		2.93		<0.4	U
Tetrachloroethene		3						100					µg/m^3	143		148		130		128		142		141		131		138		1.49	
Tetrahydrofuran													µg/m^3	10.2		9		8.7		9.88		11		9.7		9.35		8.85		0.737	J
Toluene						10						300	µg/m^3	1.85		2.13		1.76		1.97		2.35		2.22		1.93		1.99		0.614	J
trans-1,2-Dichloroethene													µg/m^3	<0.299	U	<0.299	U	<0.299	U	<0.299	U	<0.299	U	<0.299	U	<0.299	U	<0.299	U	<0.299	U
trans-1,3-Dichloropropene													µg/m^3	<0.355	U	<0.355	U	<0.355	U	<0.355	U	<0.355	U	<0.355	U	<0.355	U	<0.355	U	<0.355	U
Trichloroethene	0.2						6						µg/m^3	0.102	J	<0.295	U	0.118		<0.295	U	0.134		<0.295	U	0.097	J	<0.295	U	0.081	J
Trichlorofluoromethane													µg/m^3	2.64		2.62		2.54		2.42		3.02		2.88		2.64		2.65		1.4	
Vinyl bromide													µg/m^3	<0.316	U	<0.316	U	<0.316	U	<0.316	U	<0.316	U	<0.316	U	<0.316	U	<0.316	U	<0.316	U
Vinyl chloride			0.2						6				µg/m^3	<0.023	U	<0.149	U	<0.023	U	<0.149	U	<0.023	U	<0.149	U	<0.023	U	<0.149	U	<0.023	U

* Comparison is not performed on parameters with non-numeric criteria.

NY-IAC-A: New York DOH Matrix A Indoor Air Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion, October 2006, and updated May 2017.
NY-IAC-B: New York DOH Matrix B Indoor Air Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion, October 2006, and updated May 2017.
NY-IAC-C: New York DOH Matrix C Indoor Air Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion, October 2006, and updated May 2017.
NY-SSC-A: New York DOH Matrix A Sub-slab Vapor Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion, October 2006, and updated May 2017.
NY-SSC-B: New York DOH Matrix B Sub-slab Vapor Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion, October 2006, and updated May 2017.
NY-SSC-C: New York DOH Matrix C Sub-slab Vapor Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion, October 2006, and updated May 2017.

Bolded results indicate reportable detection; Yellow highlighted results indicate exceedance of Sub-Slab Criteria; Green highlighted results indicate exceedance of Indoor Air Criteria.

"-" Comparative criteria not available; "U" - analyte not detected above reporting limit shown
ug/m3 = micrograms per cubic meter

Table 2
Former Buffalo Color - Area C
BCP Site #C915231
Basement Indoor Sub-Slab Sampling
NYSDOH Matrix Action Summary

Matrix A Analytes	Recommended Matrix Action at Sample Location			
	No Further Action	Monitor	Identify Source(s) and Resample or Mitigate	Mitigate
Trichloroethene (TCE)	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
cis-1,2-Dichloroethene (DCE)	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
1,1-Dichloroethene (1,1-DCE)	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
Carbon Tetrachloride	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A

Matrix B Analytes	Recommended Matrix Action at Sample Location			
	No Further Action	Monitor	Identify Source(s) and Resample or Mitigate	Mitigate
Tetrachloroethene (PCE)	N/A	N/A	N/A	Area C-01 Area C-02 Area C-03 Area C-04
1,1,1-Trichloroethane (1,1,1-TCA)	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
Methylene Chloride	N/A	N/A	Area C-01 Area C-02 Area C-03 Area C-04	N/A

Matrix C Analytes	Recommended Matrix Action at Sample Location			
	No Further Action	Monitor	Identify Source(s) and Resample or Mitigate	Mitigate
Vinyl Chloride	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A

Table 2
Former Buffalo Color - Area C
BCP Site #C915231
Basement Indoor Sub-Slab Sampling
NYSDOH Matrix Action Summary

Matrix D Analytes	Recommended Matrix Action at Sample Location			
	No Further Action	Monitor	Identify Source(s) and Resample or Mitigate	Mitigate
Benzene	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
Ethylbenzene	Area C-01 Area C-04	N/A	Area C-02 Area C-03	N/A
Naphthalene	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
Cyclohexane	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
Isooctane (2,2,4-trimethylpentane)	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
1,2,4-trimethylbenzene	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
1,3,5-trimethylbenzene	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
o-xylene	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A

Matrix E Analytes	Recommended Matrix Action at Sample Location			
	No Further Action	Monitor	Identify Source(s) and Resample or Mitigate	Mitigate
m-Xylene	N/A	N/A	Area C-01 Area C-02 Area C-03 Area C-04	N/A
p-Xylene	N/A	N/A	Area C-01 Area C-02 Area C-03 Area C-04	N/A
Heptane	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
Hexane	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A

Matrix F Analytes	Recommended Matrix Action at Sample Location			
	No Further Action	Monitor	Identify Source(s) and Resample or Mitigate	Mitigate
Toluene	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A

"N/A" = No samples meet criteria for noted recommended matrix action

Table 3
Former Buffalo Color - Area C
BCP Site #C915231
NYS Fuel Oil study - EPA BASE Study

ANALYTE (a)	CAS	NYSDOH Fuel Oil Study Upper Fence (µg/m3) (b)	EPA BASE Database 90th Percentile (µg/m3) (c)	SAMPLE ID:	ARREAC-IA-01		ARREAC-IA-02		ARREAC-IA-03		ARREAC-IA-04	
				LAB ID:	L2416214-01		L2416214-03		L2416214-05		L2416214-07	
				COLLECTION DATE:	3/25/2024		3/25/2024		3/25/2024		3/25/2024	
				SAMPLE LOCATION:	Basement - South, Central		Basement - Eastern		Basement - Northeastern		Basement, North by Sump	
				SAMPLE INTERVAL:	INDOOR AIR		INDOOR AIR		INDOOR AIR		INDOOR AIR	
				UNITS								
VOLATILE ORGANICS IN AIR												
1,1,2,2-Tetrachloroethane	79-34-5	0.4	-	µg/m3	<0.357	U	<0.357	U	<0.357	U	<0.357	U
1,1,2-Trichloroethane	79-00-5	0.4	<1.5	µg/m3	<0.318	U	<0.318	U	<0.318	U	<0.318	U
1,1-Dichloroethane	75-34-3	0.4	<0.7	µg/m3	0.344	J	0.364	J	0.603	J	0.393	J
1,2,4-Trichlorobenzene	120-82-1	0.5	<6.8	µg/m3	<0.742	U	<0.742	U	<0.742	U	<0.742	U
1,2-Dibromoethane	106-93-4	0.4	<1.5	µg/m3	<0.418	U	<0.418	U	<0.418	U	<0.418	U
1,2-Dichlorobenzene	95-50-1	0.5	<1.2	µg/m3	<0.372	U	<0.372	U	<0.372	U	<0.372	U
1,2-Dichloroethane	107-06-2	0.4	<0.9	µg/m3	<0.319	U	<0.319	U	<0.319	U	<0.319	U
1,2-Dichloropropane	78-87-5	0.4	<1.6	µg/m3	<0.292	U	<0.292	U	<0.292	U	<0.292	U
1,3-Butadiene	106-99-0	-	<3.0	µg/m3	<0.137	U	<0.137	U	<0.137	U	<0.137	U
1,3-Dichlorobenzene	541-73-1	0.5	<2.4	µg/m3	<0.467	U	<0.467	U	<0.467	U	<0.467	U
1,4-Dichlorobenzene	106-46-7	1.2	5.5	µg/m3	<0.497	U	<0.497	U	<0.497	U	<0.497	U
1,4-Dioxane	123-91-1	-	-	µg/m3	<0.194	U	<0.194	U	<0.194	U	<0.194	U
2-Butanone	78-93-3	16	12	µg/m3	8.82		7.85		12		8.35	
2-Hexanone	591-78-6	-	-	µg/m3	1.3		1.13		1.61		0.938	
3-Chloropropene	107-05-1	-	-	µg/m3	<0.269	U	<0.269	U	<0.269	U	<0.269	U
4-Ethyltoluene	622-96-8	-	3.6	µg/m3	<0.272	U	<0.272	U	<0.272	U	<0.272	U
4-Methyl-2-pentanone	108-10-1	1.9	6	µg/m3	<0.779	U	<0.779	U	<0.779	U	<0.779	U
Acetone	67-64-1	115	98.9	µg/m3	58		52		68.2		54.4	
Benzyl chloride	100-44-7	-	<6.8	µg/m3	<0.486	U	<0.486	U	<0.486	U	<0.486	U
Bromodichloromethane	75-27-4	-	-	µg/m3	<0.462	U	<0.462	U	<0.462	U	<0.462	U
Bromoform	75-25-2	-	-	µg/m3	<0.616	U	<0.616	U	<0.616	U	<0.616	U
Bromomethane	74-83-9	0.5	<1.7	µg/m3	<0.212	U	<0.212	U	0.322	J	<0.212	U
Carbon disulfide	75-15-0	-	4.2	µg/m3	0.557	J	0.551	J	0.682		0.607	J
Chlorobenzene	108-90-7	0.4	<0.9	µg/m3	<0.238	U	<0.238	U	0.267	J	<0.238	U
Chloroethane	75-00-3	0.4	<1.1	µg/m3	<0.171	U	<0.171	U	<0.171	U	<0.171	U
Chloroform	67-66-3	1.2	1.1	µg/m3	0.41	J	0.469	J	0.498	J	0.425	J
Chloromethane	74-87-3	4.2	3.7	µg/m3	1.19		1.12		1.18		1.21	
cis-1,3-Dichloropropene	10061-01-5	0.4	<2.3	µg/m3	<0.306	U	<0.306	U	<0.306	U	<0.306	U
Dibromochloromethane	124-48-1	-	-	µg/m3	<0.482	U	<0.482	U	<0.482	U	<0.482	U
Dichlorodifluoromethane	75-71-8	10	16.5	µg/m3	2.82		2.76		2.89		2.86	
Ethanol	64-17-5	1300	210	µg/m3	906		718		820		914	
Ethyl Acetate	141-78-6	-	5.4	µg/m3	3.78		3.86		3.89		3.93	
Freon-113	76-13-1	2.5	-	µg/m3	0.636	J	0.667	J	0.659	J	0.651	J
Freon-114	76-14-2	0.4	-	µg/m3	<0.352	U	<0.352	U	<0.352	U	<0.352	U
Hexachlorobutadiene	87-68-3	0.5	<6.8	µg/m3	<0.647	U	<0.647	U	<0.647	U	<0.647	U
Isopropanol	67-63-0	-	-	µg/m3	3.15		3.05		3.81		4.55	
Methyl tert butyl ether	1634-04-4	14	11.5	µg/m3	<0.162	U	<0.162	U	<0.162	U	<0.162	U
Styrene	100-42-5	1.4	1.9	µg/m3	1.11		1.16		1.32		1.34	
Tertiary butyl Alcohol	75-65-0	-	-	µg/m3	2.86		2.6		3.58		3.06	
Tetrahydrofuran	109-99-9	0.8	-	µg/m3	10.2		8.7		11		9.35	
trans-1,2-Dichloroethene	156-60-5	-	-	µg/m3	<0.299	U	<0.299	U	<0.299	U	<0.299	U
trans-1,3-Dichloropropene	10061-02-6	-	<1.3	µg/m3	<0.355	U	<0.355	U	<0.355	U	<0.355	U
Trichlorofluoromethane	75-69-4	12	18.1	µg/m3	2.64		2.54		3.02		2.64	
Vinyl bromide	593-60-2	-	-	µg/m3	<0.316	U	<0.316	U	<0.316	U	<0.316	U

* Comparison is not performed on parameters with non-numeric criteria. "-" comparative criteria not available from reference source shown.

(a) Analytes on the New York DOH Matrices contained in the Guidance for Evaluating Soil Vapor Intrustion, October 2006, and Updated May 2017 are not shown or included in the tabulation and comparison to the NYS Fuel Oil Study Upper Fence or the 90th Percent of the EPA BASE Study. Only indoor air sample results shown.

(b) NYSDOH Summary of Indoor and Outdoor Levels of VOCS from Fuel Oil Heated Homes in NYS, 1997-2003, Revised November 14, 2005. Table C1 (Appendix C) of NYSDOH Guidance Document referenced in (a). Sample results with detectable concentrations greater than upper fence value shown are highlighted in yellow.

(c) Building Assessment Survey Evaluation (BASE) database, SUMMA canister Method. Table C2 (Appendix C) of NYSDOH Guidance Document referenced in (a). Sample results with detectable concentrations greater than 90th percentile value are highlighted in orange.

Bolded results indicate reportable detection

"U" - analyte not detected above reporting limit shown; "J" - Estimated value. Result below the reporting limit but above the method detection limit.

ug/m3 = micrograms per cubic meter

Table 4
Former Buffalo Color - Area C
BCP Site #C915231
Test Port and Manometer Vacuum Levels

Manometer Vacuum Readings (wci)						
Date	Fan #1	Fan #2	Fan #3	Fan #4	Fan #5	Fan #6
6/6/2024	-0.758	-0.073	-0.809	-0.181	-0.206	-0.039
6/14/2024	-0.797	-0.102	-0.851	-0.039	-0.209	-0.065
6/21/2024	-0.786	-0.102	-0.842	-0.038	-0.201	-0.062
7/10/2024	-0.793	-0.104	-0.803	-0.037	-0.202	-0.059
7/19/2024	-0.810	-0.102	-0.858	-0.036	-0.209	-0.064
7/26/2024	-0.809	-0.103	-0.852	-0.039	-0.205	-0.069
8/2/2024	-0.807	-0.106	-0.862	-0.039	-0.211	-0.060
8/9/2024	-0.798	-0.105	-0.855	-0.039	-0.209	-0.059

Sub-Slab Test Port Vacuum Readings (wci)					
Date	Test Port #1	Test Port #2	Test Port #3	Test Port #4	Test Port #5
6/4/2024	0	-0.021	-0.030	-0.010	-0.021
6/14/2024	0	0	-0.030	-0.012	-0.021
6/21/2024	0	0	-0.030	-0.012	-0.021
7/10/2024	0	0	-0.033	-0.013	-0.023
7/19/2024	0	0	-0.034	-0.013	-0.024
7/26/2024	0	0	-0.035	-0.013	-0.024
8/2/2024	0	0	-0.037	-0.014	-0.026
8/9/2024	0	0	-0.038	-0.014	-0.025

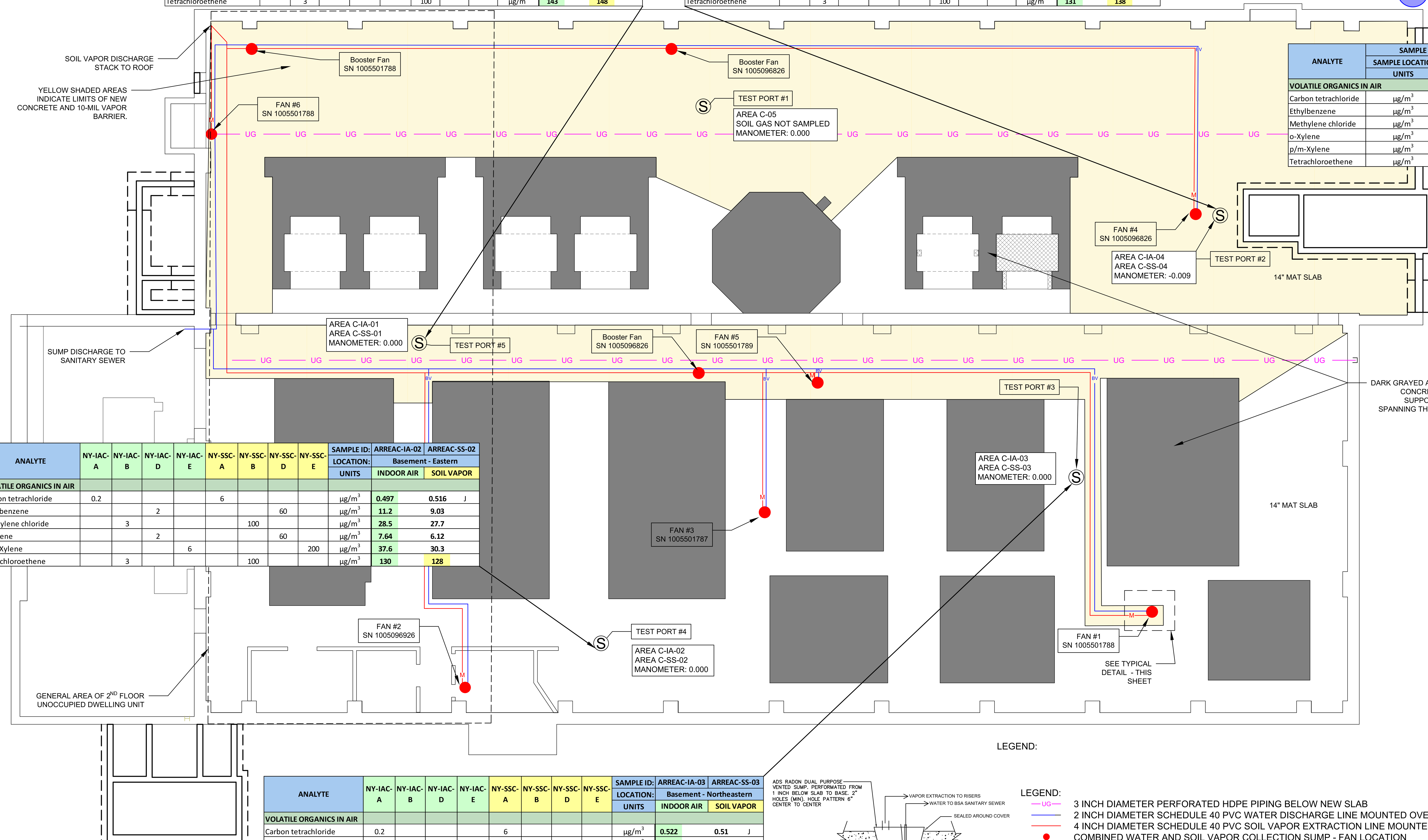
"wci" = inches of water column
a/ All vacuum readings collected with a Series 475 Mark III Digital manometer

Figures

ANALYTE	NY-IAC-A	NY-IAC-B	NY-IAC-D	NY-IAC-E	NY-SSC-A	NY-SSC-B	NY-SSC-D	NY-SSC-E	SAMPLE ID:	ARREAC-IA-01	ARREAC-SS-01
									LOCATION:	Basement - South, Central	
									UNITS	INDOOR AIR	SOIL VAPOR
VOLATILE ORGANICS IN AIR											
Carbon tetrachloride	0.2				6				μg/m³	**0.528**	**0.503** J
Ethylbenzene			2				60		μg/m³	**8.51**	**9.03**
Methylene chloride		3				100			μg/m³	**26**	**25.8**
o-Xylene			2				60		μg/m³	**5.86**	**6.34**
p/m-Xylene				6				200	μg/m³	**28.1**	**29.8**
Tetrachloroethene		3				100			μg/m³	**143**	**148**

ANALYTE	NY-IAC-A	NY-IAC-B	NY-IAC-D	NY-IAC-E	NY-SSC-A	NY-SSC-B	NY-SSC-D	NY-SSC-E	SAMPLE ID:	ARREAC-IA-04	ARREAC-SS-04
									LOCATION:	Basement, North by Sump	
									UNITS	INDOOR AIR	SOIL VAPOR
VOLATILE ORGANICS IN AIR											
Carbon tetrachloride	0.2				6				μg/m³	**0.56**	**0.497** J
Ethylbenzene			2				60		μg/m³	**8.73**	**8.99**
Methylene chloride		3				100			μg/m³	**23.2**	**24.6**
o-Xylene			2				60		μg/m³	**6.04**	**6.21**
p/m-Xylene				6				200	μg/m³	**28.7**	**29.5**
Tetrachloroethene		3				100			μg/m³	**131**	**138**

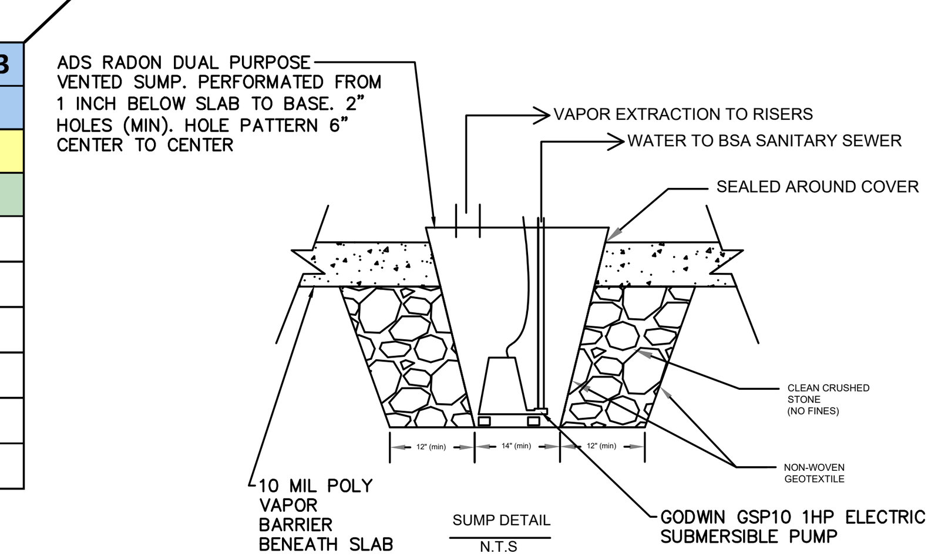
ANALYTE	SAMPLE ID:	ARREAC-OA
	SAMPLE LOCATION:	Northwest Corner
	UNITS	OUTDOOR AIR
VOLATILE ORGANICS IN AIR		
Carbon tetrachloride	μg/m³	**0.522**
Ethylbenzene	μg/m³	<0.25 U
Methylene chloride	μg/m³	**1.78**
o-Xylene	μg/m³	<0.27 U
p/m-Xylene	μg/m³	**0.717** J
Tetrachloroethene	μg/m³	**1.49**



ANALYTE	NY-IAC-A	NY-IAC-B	NY-IAC-D	NY-IAC-E	NY-SSC-A	NY-SSC-B	NY-SSC-D	NY-SSC-E	SAMPLE ID:	ARREAC-IA-02	ARREAC-SS-02
									LOCATION:	Basement - Eastern	
									UNITS	INDOOR AIR	SOIL VAPOR
VOLATILE ORGANICS IN AIR											
Carbon tetrachloride	0.2				6				μg/m³	**0.497**	**0.516** J
Ethylbenzene			2				60		μg/m³	**11.2**	**9.03**
Methylene chloride		3				100			μg/m³	**28.5**	**27.7**
o-Xylene			2				60		μg/m³	**7.64**	**6.12**
p/m-Xylene				6				200	μg/m³	**37.6**	**30.3**
Tetrachloroethene		3				100			μg/m³	**130**	**128**

ANALYTE	NY-IAC-A	NY-IAC-B	NY-IAC-D	NY-IAC-E	NY-SSC-A	NY-SSC-B	NY-SSC-D	NY-SSC-E	SAMPLE ID:	ARREAC-IA-03	ARREAC-SS-03
									LOCATION:	Basement - Northeastern	
									UNITS	INDOOR AIR	SOIL VAPOR
VOLATILE ORGANICS IN AIR											
Carbon tetrachloride	0.2				6				μg/m³	**0.522**	**0.51** J
Ethylbenzene			2				60		μg/m³	**11.1**	**10.4**
Methylene chloride		3				100			μg/m³	**28.2**	**27.1**
o-Xylene			2				60		μg/m³	**7.64**	**7.21**
p/m-Xylene				6				200	μg/m³	**35.7**	**34.6**
Tetrachloroethene		3				100			μg/m³	**142**	**141**

LEGEND:



LEGEND:

- —UG— 3 INCH DIAMETER PERFORATED HDPE PIPING BELOW NEW SLAB
- 2 INCH DIAMETER SCHEDULE 40 PVC WATER DISCHARGE LINE MOUNTED OVERHEAD
- 4 INCH DIAMETER SCHEDULE 40 PVC SOIL VAPOR EXTRACTION LINE MOUNTED OVERHEAD
- ● COMBINED WATER AND SOIL VAPOR COLLECTION SUMP - FAN LOCATION
- Ⓢ SUB SLAB DEPRESSURIZATION SAMPLE PORT
- —M— MANOMETER LOCATION
- —BV— 2 INCH DIAMETER BALL CHECK VALVE (WATER DISCHARGE LINE)

Note: Booster fans were not operating during sub-slab or indoor air sample collection.

D

DRAWING BY	T. WALDROP
CHECKED	J. BLACK
APPROVED	J. BLACK

PROPERTY OF INVENTUM ENGINEERING

Supplemental Sub-Slab and Indoor Air Sampling Program - March 2024

Buffalo Color Corporation Site Area C
Erie County, Site No. C915231

INVENTUM ENGINEERING
441 CARLISLE DRIVE
SUITE C
HERNDON, VIRGINIA 20170
www.InventumEng.com

FIGURE 1

LOCATION: AREA C-01			
MATRIX	MATRIX ACTION	ANALYTE(S)	SS/IA
MATRIX A	No Further Action	Carbon Tetrachloride	IA
MATRIX B	Identify Source(s) or Resample or Mitigate	Methylene chloride	IA
MATRIX B	Mitigate	Tetrachloroethene	SS/IA
MATRIX D	No Further Action	Ethylbenzene, o-Xylene	IA
MATRIX E	Identify Source(s) or Resample or Mitigate	p/m-xylene	IA

LOCATION: AREA C-04			
MATRIX	MATRIX ACTION	ANALYTE(S)	SS/IA
MATRIX A	No Further Action	Carbon Tetrachloride	IA
MATRIX B	Identify Source(s) or Resample or Mitigate	Methylene chloride	IA
MATRIX B	Mitigate	Tetrachloroethene	SS/IA
MATRIX D	No Further Action	Ethylbenzene, o-Xylene	IA
MATRIX E	Identify Source(s) or Resample or Mitigate	p/m-xylene	IA

SOIL VAPOR DISCHARGE STACK TO ROOF

YELLOW SHADED AREAS INDICATE LIMITS OF NEW CONCRETE AND 10-MIL VAPOR BARRIER.

SUMP DISCHARGE TO SANITARY SEWER

GENERAL AREA OF 2ND FLOOR UNOCCUPIED DWELLING UNIT

Booster Fan SN 1005501788

FAN #6 SN 1005501788

Booster Fan SN 1005096826

TEST PORT #1

AREA C-IA-01 AREA C-SS-01

TEST PORT #5

Booster Fan SN 1005096826

FAN #5 SN 1005501789

FAN #4 SN 1005096826

TEST PORT #2

AREA C-IA-04 AREA C-SS-04

14" MAT SLAB

DARK GRAYED AREAS ARE SOLID CONCRETE FOUNDATION SUPPORT STRUCTURES SPANNING THE HEIGHT OF THE BASEMENT.

14" MAT SLAB

TEST PORT #3

AREA C-IA-03 AREA C-SS-03

FAN #3 SN 1005501787

FAN #2 SN 1005096926

TEST PORT #4

AREA C-IA-02 AREA C-SS-02

FAN #1 SN 1005501788

SEE TYPICAL DETAIL - THIS SHEET

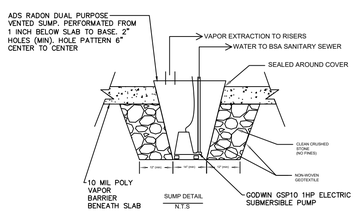
OA

N

LOCATION: AREA C-03			
MATRIX	MATRIX ACTION	ANALYTE(S)	SS/IA
MATRIX A	No Further Action	Carbon Tetrachloride	IA
MATRIX B	Identify Source(s) or Resample or Mitigate	Methylene chloride	IA
MATRIX B	Mitigate	Tetrachloroethene	SS/IA
MATRIX D	No Further Action	o-Xylene	IA
MATRIX D	Identify Source(s) or Resample or Mitigate	Ethylbenzene	IA
MATRIX E	Identify Source(s) or Resample or Mitigate	p/m-xylene	IA

LOCATION: AREA C-02			
MATRIX	MATRIX ACTION	ANALYTE(S)	SS/IA
MATRIX A	No Further Action	Carbon Tetrachloride	IA
MATRIX B	Identify Source(s) or Resample or Mitigate	Methylene chloride	IA
MATRIX B	Mitigate	Tetrachloroethene	SS/IA
MATRIX D	No Further Action	o-Xylene	IA
MATRIX D	Identify Source(s) or Resample or Mitigate	Ethylbenzene	IA
MATRIX E	Identify Source(s) or Resample or Mitigate	p/m-xylene	IA

LEGEND:



SUMP DETAIL N.T.S

LEGEND:

- UG — 3 INCH DIAMETER PERFORATED HDPE PIPING BELOW NEW SLAB
- BV — 2 INCH DIAMETER SCHEDULE 40 PVC WATER DISCHARGE LINE MOUNTED OVERHEAD
- UG — 4 INCH DIAMETER SCHEDULE 40 PVC SOIL VAPOR EXTRACTION LINE MOUNTED OVERHEAD
- ● — COMBINED WATER AND SOIL VAPOR COLLECTION SUMP - FAN LOCATION
- Ⓢ — SUB SLAB DEPRESSURIZATION SAMPLE PORT
- M — MANOMETER LOCATION
- BV — 2 INCH DIAMETER BALL CHECK VALVE (WATER DISCHARGE LINE)

Note: Booster fans were not operating during sub-slab or indoor air sample collection.

D

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CHECKED
APPROVED

Supplemental Sub-Slab and Indoor Air Sampling Program - March 2024

Buffalo Color Corporation Site Area C
Erie County, Site No. C915231

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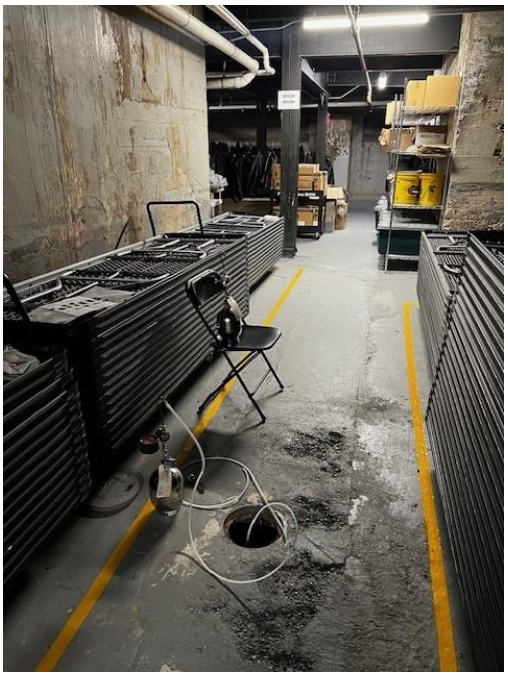
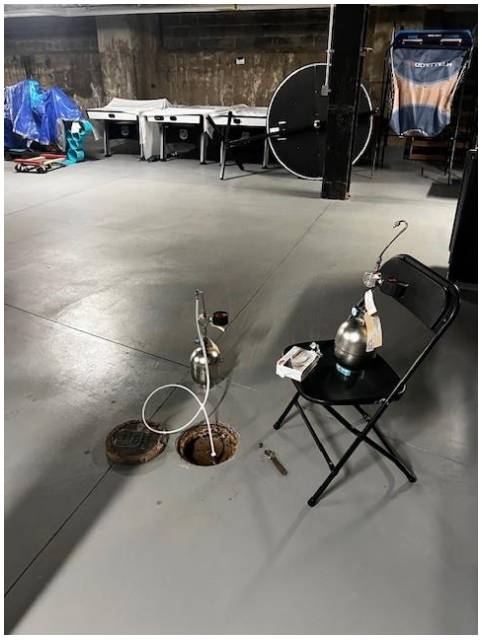
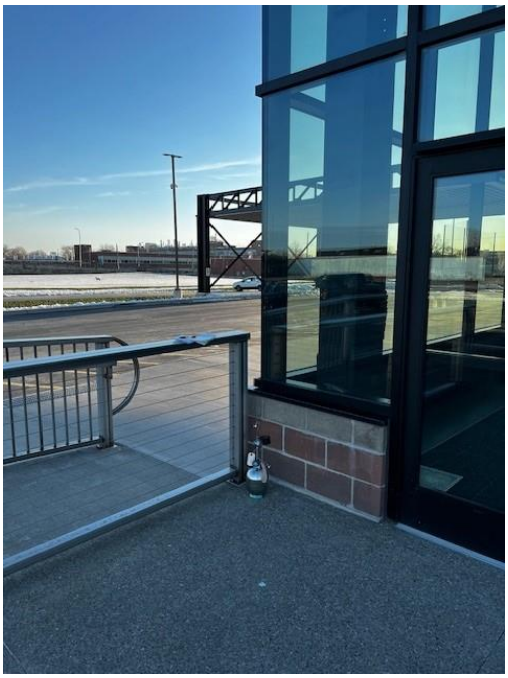
FIGURE 2

Attachment A – Photographs

Client Name: SBD	**Area C Sub-slab and Indoor Air Sampling**	**Project:** Buffalo Color Corporation Site Area C
Photo No. 1 **Direction Photo Taken:** N/A **Description:** Area C – 01 Sub-Slab and Indoor Air Sample		
Client Name: SBD	**Area C Sub-slab and Indoor Air Sampling**	**Project:** Buffalo Color Corporation Site Area C
Photo No. 2 **Direction Photo Taken:** N/A **Description:** Area C – 02 Sub-slab and Indoor Air Sample		

Client Name: SBD	**Area C Sub-slab and Indoor Air Sampling**	**Project:** Buffalo Color Corporation Site Area C
Photo No. 3 **Direction Photo Taken:** N/A **Description:** Area C – 03 Sub-slab and Indoor Air Sample		
Client Name: SBD	**Area C Sub-slab and Indoor Air Sampling**	**Project:** Buffalo Color Corporation Site Area C
Photo No. 4 **Direction Photo Taken:** N/A **Description:** Area C – 04 Sub-slab and Indoor Air Sample		

Client Name: SBD	**Area C Sub-slab and Indoor Air Sampling**	**Project:** Buffalo Color Corporation Site Area C
Photo No. 5 **Direction Photo Taken:** N/A **Description:** Area C – OA Outdoor Air Sample		
Client Name: SBD	**Area C Sub-slab and Indoor Air Sampling**	**Project:** Buffalo Color Corporation Site Area C
Photo No. 6 **Direction Photo Taken:** N/A **Description:** Floor coatings, epoxy, and industrial products stored in the vicinity of Area C – 02		

Client Name: SBD	**Area C Sub-slab and Indoor Air Sampling**	**Project:** Buffalo Color Corporation Site Area C
Photo No. 7 **Direction Photo Taken:** N/A **Description:** Quikrete and weed killer stored in the vicinity of Area C – 02		
Client Name: SBD	**Area C Sub-slab and Indoor Air Sampling**	**Project:** Buffalo Color Corporation Site Area C
Photo No. 8 **Direction Photo Taken:** N/A **Description:** Dehumidifier operating in the vicinity of Area C – 04		

Attachment B1 – Laboratory Data Reports

ANALYTICAL REPORT

Lab Number:	L2416214
Client:	Inventum Engineering 441 Carlisle Drive Suite C Herndon, NY 20170
ATTN:	Todd Waldrop
Phone:	(571) 752-6562
Project Name:	BUFFALO COLOR - AREA C
Project Number:	Not Specified
Report Date:	04/10/24

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (99110) , NJ (MA015), NY (11627), NC (685), OH (CL106), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708), USFWS (Permit #A24920).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified

Lab Number: L2416214
Report Date: 04/10/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2416214-01	ARREAC-IA-01	AIR	140 LEE STREET BUFFALO, NY	03/25/24 15:06	03/25/24
L2416214-02	ARREAC-SS-01	SOIL_VAPOR	140 LEE STREET BUFFALO, NY	03/25/24 15:20	03/25/24
L2416214-03	ARREAC-IA-02	AIR	140 LEE STREET BUFFALO, NY	03/25/24 15:04	03/25/24
L2416214-04	ARREAC-SS-02	SOIL_VAPOR	140 LEE STREET BUFFALO, NY	03/25/24 15:45	03/25/24
L2416214-05	ARREAC-IA-03	AIR	140 LEE STREET BUFFALO, NY	03/25/24 16:06	03/25/24
L2416214-06	ARREAC-SS-03	SOIL_VAPOR	140 LEE STREET BUFFALO, NY	03/25/24 15:58	03/25/24
L2416214-07	ARREAC-IA-04	AIR	140 LEE STREET BUFFALO, NY	03/25/24 15:15	03/25/24
L2416214-08	ARREAC-SS-04	SOIL_VAPOR	140 LEE STREET BUFFALO, NY	03/25/24 15:36	03/25/24
L2416214-09	ARREAC-OA	AIR	140 LEE STREET BUFFALO, NY	03/25/24 15:50	03/25/24

Project Name:	BUFFALO COLOR - AREA C	**Lab Number:**	L2416214
Project Number:	Not Specified	**Report Date:**	04/10/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	BUFFALO COLOR - AREA C	**Lab Number:**	L2416214
Project Number:	Not Specified	**Report Date:**	04/10/24

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on February 23 and March 15, 2024. The canister certification data is provided as an addendum.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics in Air

L2416214-06D and -08D: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 04/10/24

AIR

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified

Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-01
Client ID: ARREAC-IA-01
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:06
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 04/07/24 23:13
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.570	0.200	0.076	2.82	0.989	0.374		1
Chloromethane	0.578	0.200	0.058	1.19	0.413	0.119		1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Ethanol	481	5.00	1.74	906	9.42	3.28		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acetone	24.4	1.00	0.515	58.0	2.38	1.22		1
Trichlorofluoromethane	0.470	0.200	0.079	2.64	1.12	0.442		1
Isopropanol	1.28	0.500	0.272	3.15	1.23	0.669		1
Tertiary butyl Alcohol	0.944	0.500	0.132	2.86	1.52	0.400		1
Methylene chloride	7.47	0.500	0.125	26.0	1.74	0.434		1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	0.179	0.200	0.047	0.557	0.623	0.145	J	1
Freon-113	0.083	0.200	0.051	0.636	1.53	0.388	J	1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	0.085	0.200	0.057	0.344	0.809	0.230	J	1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
2-Butanone	2.99	0.500	0.099	8.82	1.47	0.292		1
Ethyl Acetate	1.05	0.500	0.297	3.78	1.80	1.07		1
Chloroform	0.084	0.200	0.055	0.410	0.977	0.270	J	1
Tetrahydrofuran	3.46	0.500	0.117	10.2	1.47	0.345		1

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified
Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-01
Client ID: ARREAC-IA-01
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:06
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	0.565	0.200	0.074	1.99	0.705	0.262		1
Benzene	0.210	0.200	0.064	0.671	0.639	0.205		1
Cyclohexane	0.497	0.200	0.073	1.71	0.688	0.251		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Heptane	0.532	0.200	0.083	2.18	0.820	0.339		1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	0.490	0.200	0.087	1.85	0.754	0.327		1
2-Hexanone	0.317	0.200	0.091	1.30	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	1.96	0.200	0.058	8.51	0.869	0.250		1
p/m-Xylene	6.46	0.400	0.125	28.1	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	0.260	0.200	0.060	1.11	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1
o-Xylene	1.35	0.200	0.062	5.86	0.869	0.270		1
4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified

Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-01
Client ID: ARREAC-IA-01
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:06
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	0.161	0.200	0.058	0.792	0.983	0.284	J	1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	ND	0.200	0.078	ND	1.05	0.409		1
Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	94		60-140

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified
Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-01
Client ID: ARREAC-IA-01
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:06
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/07/24 23:13
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	0.009	ND	0.051	0.023		1
1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031		1
cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.040		1
1,1,1-Trichloroethane	0.256	0.020	0.006	1.40	0.109	0.032		1
Carbon tetrachloride	0.084	0.020	0.011	0.528	0.126	0.069		1
Trichloroethene	0.019	0.020	0.006	0.102	0.107	0.032	J	1
Tetrachloroethene	21.1	0.020	0.007	143	0.136	0.050		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	95		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	96		60-140

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified

Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-02
Client ID: ARREAC-SS-01
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:20
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 04/08/24 01:47
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.566	0.200	0.076	2.80	0.989	0.374		1
Chloromethane	0.575	0.200	0.058	1.19	0.413	0.119		1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Ethanol	514	5.00	1.74	969	9.42	3.28	E	1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acetone	26.6	1.00	0.515	63.2	2.38	1.22		1
Trichlorofluoromethane	0.467	0.200	0.079	2.62	1.12	0.442		1
Isopropanol	1.66	0.500	0.272	4.08	1.23	0.669		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1
Tertiary butyl Alcohol	1.03	0.500	0.132	3.12	1.52	0.400		1
Methylene chloride	7.44	0.500	0.125	25.8	1.74	0.434		1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	0.193	0.200	0.047	0.601	0.623	0.145	J	1
Freon-113	0.082	0.200	0.051	0.628	1.53	0.388	J	1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	0.093	0.200	0.057	0.376	0.809	0.230	J	1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
2-Butanone	3.16	0.500	0.099	9.32	1.47	0.292		1
cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236		1

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified

Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-02
Client ID: ARREAC-SS-01
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:20
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	1.17	0.500	0.297	4.22	1.80	1.07		1
Chloroform	0.084	0.200	0.055	0.410	0.977	0.270	J	1
Tetrahydrofuran	3.05	0.500	0.117	9.00	1.47	0.345		1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	0.598	0.200	0.074	2.11	0.705	0.262		1
1,1,1-Trichloroethane	0.291	0.200	0.061	1.59	1.09	0.335		1
Benzene	0.231	0.200	0.064	0.738	0.639	0.205		1
Carbon tetrachloride	0.080	0.200	0.069	0.503	1.26	0.432	J	1
Cyclohexane	0.495	0.200	0.073	1.70	0.688	0.251		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	ND	0.200	0.055	ND	1.07	0.295		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Heptane	0.577	0.200	0.083	2.36	0.820	0.339		1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	0.565	0.200	0.087	2.13	0.754	0.327		1
2-Hexanone	0.355	0.200	0.091	1.45	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Tetrachloroethene	21.8	0.200	0.063	148	1.36	0.425		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	2.08	0.200	0.058	9.03	0.869	0.250		1

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified

Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-02
Client ID: ARREAC-SS-01
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:20
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	6.85	0.400	0.125	29.8	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	0.271	0.200	0.060	1.15	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1
o-Xylene	1.46	0.200	0.062	6.34	0.869	0.270		1
4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272		1
1,3,5-Trimethylbenzene	0.081	0.200	0.060	0.398	0.983	0.295	J	1
1,2,4-Trimethylbenzene	0.224	0.200	0.058	1.10	0.983	0.284		1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	0.087	0.200	0.078	0.456	1.05	0.409	J	1
Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	96		60-140

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified

Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-02 D
Client ID: ARREAC-SS-01
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:20
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 04/09/24 09:55
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Ethanol	416	10.0	3.48	784	18.8	6.56		2

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	91		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	91		60-140

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified
Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-03
Client ID: ARREAC-IA-02
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:04
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 04/07/24 23:52
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.558	0.200	0.076	2.76	0.989	0.374		1
Chloromethane	0.540	0.200	0.058	1.12	0.413	0.119		1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Ethanol	381	5.00	1.74	718	9.42	3.28		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acetone	21.9	1.00	0.515	52.0	2.38	1.22		1
Trichlorofluoromethane	0.452	0.200	0.079	2.54	1.12	0.442		1
Isopropanol	1.24	0.500	0.272	3.05	1.23	0.669		1
Tertiary butyl Alcohol	0.858	0.500	0.132	2.60	1.52	0.400		1
Methylene chloride	8.21	0.500	0.125	28.5	1.74	0.434		1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	0.177	0.200	0.047	0.551	0.623	0.145	J	1
Freon-113	0.087	0.200	0.051	0.667	1.53	0.388	J	1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	0.090	0.200	0.057	0.364	0.809	0.230	J	1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
2-Butanone	2.66	0.500	0.099	7.85	1.47	0.292		1
Ethyl Acetate	1.07	0.500	0.297	3.86	1.80	1.07		1
Chloroform	0.096	0.200	0.055	0.469	0.977	0.270	J	1
Tetrahydrofuran	2.95	0.500	0.117	8.70	1.47	0.345		1

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified
Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-03
Client ID: ARREAC-IA-02
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:04
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	0.508	0.200	0.074	1.79	0.705	0.262		1
Benzene	0.205	0.200	0.064	0.655	0.639	0.205		1
Cyclohexane	0.412	0.200	0.073	1.42	0.688	0.251		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Heptane	0.485	0.200	0.083	1.99	0.820	0.339		1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	0.468	0.200	0.087	1.76	0.754	0.327		1
2-Hexanone	0.275	0.200	0.091	1.13	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	2.59	0.200	0.058	11.2	0.869	0.250		1
p/m-Xylene	8.66	0.400	0.125	37.6	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	0.273	0.200	0.060	1.16	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1
o-Xylene	1.76	0.200	0.062	7.64	0.869	0.270		1
4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272		1
1,3,5-Trimethylbenzene	0.063	0.200	0.060	0.310	0.983	0.295	J	1

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified

Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-03
Client ID: ARREAC-IA-02
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:04
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	0.172	0.200	0.058	0.846	0.983	0.284	J	1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	0.095	0.200	0.078	0.498	1.05	0.409	J	1
Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	99		60-140

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified
Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-03
Client ID: ARREAC-IA-02
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:04
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/07/24 23:52
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	0.009	ND	0.051	0.023		1
1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031		1
cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.040		1
1,1,1-Trichloroethane	0.265	0.020	0.006	1.45	0.109	0.032		1
Carbon tetrachloride	0.079	0.020	0.011	0.497	0.126	0.069		1
Trichloroethene	0.022	0.020	0.006	0.118	0.107	0.032		1
Tetrachloroethene	19.1	0.020	0.007	130	0.136	0.050		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	97		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	100		60-140

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified

Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-04
Client ID: ARREAC-SS-02
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:45
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 04/08/24 02:25
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.558	0.200	0.076	2.76	0.989	0.374		1
Chloromethane	0.613	0.200	0.058	1.27	0.413	0.119		1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Bromomethane	0.072	0.200	0.055	0.280	0.777	0.212	J	1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Ethanol	452	5.00	1.74	852	9.42	3.28		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acetone	24.9	1.00	0.515	59.1	2.38	1.22		1
Trichlorofluoromethane	0.430	0.200	0.079	2.42	1.12	0.442		1
Isopropanol	2.27	0.500	0.272	5.58	1.23	0.669		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1
Tertiary butyl Alcohol	0.879	0.500	0.132	2.66	1.52	0.400		1
Methylene chloride	7.96	0.500	0.125	27.7	1.74	0.434		1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	0.176	0.200	0.047	0.548	0.623	0.145	J	1
Freon-113	0.081	0.200	0.051	0.621	1.53	0.388	J	1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	0.085	0.200	0.057	0.344	0.809	0.230	J	1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
2-Butanone	2.78	0.500	0.099	8.20	1.47	0.292		1
cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236		1

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified
Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-04
Client ID: ARREAC-SS-02
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:45
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	1.09	0.500	0.297	3.93	1.80	1.07		1
Chloroform	0.085	0.200	0.055	0.415	0.977	0.270	J	1
Tetrahydrofuran	3.35	0.500	0.117	9.88	1.47	0.345		1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	0.534	0.200	0.074	1.88	0.705	0.262		1
1,1,1-Trichloroethane	0.272	0.200	0.061	1.48	1.09	0.335		1
Benzene	0.220	0.200	0.064	0.703	0.639	0.205		1
Carbon tetrachloride	0.082	0.200	0.069	0.516	1.26	0.432	J	1
Cyclohexane	0.504	0.200	0.073	1.73	0.688	0.251		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	ND	0.200	0.055	ND	1.07	0.295		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Heptane	0.530	0.200	0.083	2.17	0.820	0.339		1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	0.524	0.200	0.087	1.97	0.754	0.327		1
2-Hexanone	0.249	0.200	0.091	1.02	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Tetrachloroethene	18.9	0.200	0.063	128	1.36	0.425		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	2.08	0.200	0.058	9.03	0.869	0.250		1

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified

Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-04
Client ID: ARREAC-SS-02
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:45
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	6.98	0.400	0.125	30.3	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	0.309	0.200	0.060	1.32	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1
o-Xylene	1.41	0.200	0.062	6.12	0.869	0.270		1
4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272		1
1,3,5-Trimethylbenzene	0.067	0.200	0.060	0.329	0.983	0.295	J	1
1,2,4-Trimethylbenzene	0.190	0.200	0.058	0.934	0.983	0.284	J	1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	0.252	0.200	0.078	1.32	1.05	0.409		1
Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	98		60-140

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified

Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-05
Client ID: ARREAC-IA-03
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 16:06
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 04/08/24 00:30
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.585	0.200	0.076	2.89	0.989	0.374		1
Chloromethane	0.572	0.200	0.058	1.18	0.413	0.119		1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Bromomethane	0.083	0.200	0.055	0.322	0.777	0.212	J	1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Ethanol	435	5.00	1.74	820	9.42	3.28		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acetone	28.7	1.00	0.515	68.2	2.38	1.22		1
Trichlorofluoromethane	0.537	0.200	0.079	3.02	1.12	0.442		1
Isopropanol	1.55	0.500	0.272	3.81	1.23	0.669		1
Tertiary butyl Alcohol	1.18	0.500	0.132	3.58	1.52	0.400		1
Methylene chloride	8.12	0.500	0.125	28.2	1.74	0.434		1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	0.219	0.200	0.047	0.682	0.623	0.145		1
Freon-113	0.086	0.200	0.051	0.659	1.53	0.388	J	1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	0.149	0.200	0.057	0.603	0.809	0.230	J	1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
2-Butanone	4.08	0.500	0.099	12.0	1.47	0.292		1
Ethyl Acetate	1.08	0.500	0.297	3.89	1.80	1.07		1
Chloroform	0.102	0.200	0.055	0.498	0.977	0.270	J	1
Tetrahydrofuran	3.72	0.500	0.117	11.0	1.47	0.345		1

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified

Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-05
Client ID: ARREAC-IA-03
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 16:06
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	0.596	0.200	0.074	2.10	0.705	0.262		1
Benzene	0.227	0.200	0.064	0.725	0.639	0.205		1
Cyclohexane	0.558	0.200	0.073	1.92	0.688	0.251		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Heptane	0.586	0.200	0.083	2.40	0.820	0.339		1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	0.624	0.200	0.087	2.35	0.754	0.327		1
2-Hexanone	0.393	0.200	0.091	1.61	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Chlorobenzene	0.058	0.200	0.052	0.267	0.921	0.238	J	1
Ethylbenzene	2.55	0.200	0.058	11.1	0.869	0.250		1
p/m-Xylene	8.22	0.400	0.125	35.7	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	0.309	0.200	0.060	1.32	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1
o-Xylene	1.76	0.200	0.062	7.64	0.869	0.270		1
4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272		1
1,3,5-Trimethylbenzene	0.085	0.200	0.060	0.418	0.983	0.295	J	1

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified

Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-05
Client ID: ARREAC-IA-03
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 16:06
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	0.187	0.200	0.058	0.919	0.983	0.284	J	1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	ND	0.200	0.078	ND	1.05	0.409		1
Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	95		60-140

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified
Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-05
Client ID: ARREAC-IA-03
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 16:06
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/08/24 00:30
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	0.009	ND	0.051	0.023		1
1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031		1
cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.040		1
1,1,1-Trichloroethane	0.412	0.020	0.006	2.25	0.109	0.032		1
Carbon tetrachloride	0.083	0.020	0.011	0.522	0.126	0.069		1
Trichloroethene	0.025	0.020	0.006	0.134	0.107	0.032		1
Tetrachloroethene	21.0	0.020	0.007	142	0.136	0.050		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	95		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	97		60-140

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified

Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-06
Client ID: ARREAC-SS-03
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:58
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 04/08/24 03:03
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.562	0.200	0.076	2.78	0.989	0.374		1
Chloromethane	0.809	0.200	0.058	1.67	0.413	0.119		1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Bromomethane	0.133	0.200	0.055	0.516	0.777	0.212	J	1
Chloroethane	0.171	0.200	0.065	0.451	0.528	0.171	J	1
Ethanol	551	5.00	1.74	1040	9.42	3.28	E	1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acetone	29.2	1.00	0.515	69.4	2.38	1.22		1
Trichlorofluoromethane	0.513	0.200	0.079	2.88	1.12	0.442		1
Isopropanol	2.11	0.500	0.272	5.19	1.23	0.669		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1
Tertiary butyl Alcohol	ND	0.500	0.132	ND	1.52	0.400		1
Methylene chloride	7.80	0.500	0.125	27.1	1.74	0.434		1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	0.222	0.200	0.047	0.691	0.623	0.145		1
Freon-113	0.084	0.200	0.051	0.644	1.53	0.388	J	1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	0.158	0.200	0.057	0.639	0.809	0.230	J	1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
2-Butanone	3.44	0.500	0.099	10.1	1.47	0.292		1
cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236		1

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified
Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-06
Client ID: ARREAC-SS-03
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:58
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	1.19	0.500	0.297	4.29	1.80	1.07		1
Chloroform	0.105	0.200	0.055	0.513	0.977	0.270	J	1
Tetrahydrofuran	3.29	0.500	0.117	9.70	1.47	0.345		1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	0.603	0.200	0.074	2.13	0.705	0.262		1
1,1,1-Trichloroethane	0.405	0.200	0.061	2.21	1.09	0.335		1
Benzene	0.233	0.200	0.064	0.744	0.639	0.205		1
Carbon tetrachloride	0.081	0.200	0.069	0.510	1.26	0.432	J	1
Cyclohexane	0.524	0.200	0.073	1.80	0.688	0.251		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	ND	0.200	0.055	ND	1.07	0.295		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Heptane	0.581	0.200	0.083	2.38	0.820	0.339		1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	0.589	0.200	0.087	2.22	0.754	0.327		1
2-Hexanone	0.345	0.200	0.091	1.41	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Tetrachloroethene	20.8	0.200	0.063	141	1.36	0.425		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	2.40	0.200	0.058	10.4	0.869	0.250		1

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified

Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-06
Client ID: ARREAC-SS-03
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:58
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	7.97	0.400	0.125	34.6	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	0.284	0.200	0.060	1.21	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1
o-Xylene	1.66	0.200	0.062	7.21	0.869	0.270		1
4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272		1
1,3,5-Trimethylbenzene	0.079	0.200	0.060	0.388	0.983	0.295	J	1
1,2,4-Trimethylbenzene	0.218	0.200	0.058	1.07	0.983	0.284		1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	0.088	0.200	0.078	0.461	1.05	0.409	J	1
Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	99		60-140

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified

Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-06 D
Client ID: ARREAC-SS-03
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:58
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 04/10/24 04:37
Analyst: BJB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Ethanol	432	10.0	3.48	814	18.8	6.56		2

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	91		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	90		60-140

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified
Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-07
Client ID: ARREAC-IA-04
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:15
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 04/08/24 01:08
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.579	0.200	0.076	2.86	0.989	0.374		1
Chloromethane	0.584	0.200	0.058	1.21	0.413	0.119		1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Ethanol	485	5.00	1.74	914	9.42	3.28		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acetone	22.9	1.00	0.515	54.4	2.38	1.22		1
Trichlorofluoromethane	0.469	0.200	0.079	2.64	1.12	0.442		1
Isopropanol	1.85	0.500	0.272	4.55	1.23	0.669		1
Tertiary butyl Alcohol	1.01	0.500	0.132	3.06	1.52	0.400		1
Methylene chloride	6.69	0.500	0.125	23.2	1.74	0.434		1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	0.195	0.200	0.047	0.607	0.623	0.145	J	1
Freon-113	0.085	0.200	0.051	0.651	1.53	0.388	J	1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	0.097	0.200	0.057	0.393	0.809	0.230	J	1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
2-Butanone	2.83	0.500	0.099	8.35	1.47	0.292		1
Ethyl Acetate	1.09	0.500	0.297	3.93	1.80	1.07		1
Chloroform	0.087	0.200	0.055	0.425	0.977	0.270	J	1
Tetrahydrofuran	3.17	0.500	0.117	9.35	1.47	0.345		1

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified
Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-07
Client ID: ARREAC-IA-04
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:15
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	0.629	0.200	0.074	2.22	0.705	0.262		1
Benzene	0.218	0.200	0.064	0.696	0.639	0.205		1
Cyclohexane	0.514	0.200	0.073	1.77	0.688	0.251		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Heptane	0.610	0.200	0.083	2.50	0.820	0.339		1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	0.513	0.200	0.087	1.93	0.754	0.327		1
2-Hexanone	0.229	0.200	0.091	0.938	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	2.01	0.200	0.058	8.73	0.869	0.250		1
p/m-Xylene	6.61	0.400	0.125	28.7	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	0.314	0.200	0.060	1.34	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1
o-Xylene	1.39	0.200	0.062	6.04	0.869	0.270		1
4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272		1
1,3,5-Trimethylbenzene	0.065	0.200	0.060	0.320	0.983	0.295	J	1

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified

Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-07
Client ID: ARREAC-IA-04
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:15
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	0.186	0.200	0.058	0.914	0.983	0.284	J	1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	ND	0.200	0.078	ND	1.05	0.409		1
Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	97		60-140

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified
Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-07
Client ID: ARREAC-IA-04
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:15
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/08/24 01:08
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	0.009	ND	0.051	0.023		1
1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031		1
cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.040		1
1,1,1-Trichloroethane	0.272	0.020	0.006	1.48	0.109	0.032		1
Carbon tetrachloride	0.089	0.020	0.011	0.560	0.126	0.069		1
Trichloroethene	0.018	0.020	0.006	0.097	0.107	0.032	J	1
Tetrachloroethene	19.3	0.020	0.007	131	0.136	0.050		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	96		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	99		60-140

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified
Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-08
Client ID: ARREAC-SS-04
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:36
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 04/08/24 03:42
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.571	0.200	0.076	2.82	0.989	0.374		1
Chloromethane	0.592	0.200	0.058	1.22	0.413	0.119		1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Bromomethane	0.088	0.200	0.055	0.342	0.777	0.212	J	1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Ethanol	509	5.00	1.74	959	9.42	3.28	E	1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acetone	24.9	1.00	0.515	59.1	2.38	1.22		1
Trichlorofluoromethane	0.471	0.200	0.079	2.65	1.12	0.442		1
Isopropanol	1.64	0.500	0.272	4.03	1.23	0.669		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1
Tertiary butyl Alcohol	0.968	0.500	0.132	2.93	1.52	0.400		1
Methylene chloride	7.07	0.500	0.125	24.6	1.74	0.434		1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	0.191	0.200	0.047	0.595	0.623	0.145	J	1
Freon-113	0.084	0.200	0.051	0.644	1.53	0.388	J	1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	0.095	0.200	0.057	0.385	0.809	0.230	J	1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
2-Butanone	2.90	0.500	0.099	8.55	1.47	0.292		1
cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236		1

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified
Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-08
Client ID: ARREAC-SS-04
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:36
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	1.11	0.500	0.297	4.00	1.80	1.07		1
Chloroform	0.085	0.200	0.055	0.415	0.977	0.270	J	1
Tetrahydrofuran	3.00	0.500	0.117	8.85	1.47	0.345		1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	0.635	0.200	0.074	2.24	0.705	0.262		1
1,1,1-Trichloroethane	0.294	0.200	0.061	1.60	1.09	0.335		1
Benzene	0.219	0.200	0.064	0.700	0.639	0.205		1
Carbon tetrachloride	0.079	0.200	0.069	0.497	1.26	0.432	J	1
Cyclohexane	0.557	0.200	0.073	1.92	0.688	0.251		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	ND	0.200	0.055	ND	1.07	0.295		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Heptane	0.615	0.200	0.083	2.52	0.820	0.339		1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	0.528	0.200	0.087	1.99	0.754	0.327		1
2-Hexanone	0.251	0.200	0.091	1.03	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Tetrachloroethene	20.4	0.200	0.063	138	1.36	0.425		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	2.07	0.200	0.058	8.99	0.869	0.250		1

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified
Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-08
Client ID: ARREAC-SS-04
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:36
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	6.80	0.400	0.125	29.5	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	0.261	0.200	0.060	1.11	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1
o-Xylene	1.43	0.200	0.062	6.21	0.869	0.270		1
4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272		1
1,3,5-Trimethylbenzene	0.067	0.200	0.060	0.329	0.983	0.295	J	1
1,2,4-Trimethylbenzene	0.186	0.200	0.058	0.914	0.983	0.284	J	1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	ND	0.200	0.078	ND	1.05	0.409		1
Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	97		60-140

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified

Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-08 D
Client ID: ARREAC-SS-04
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:36
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 04/10/24 05:14
Analyst: BJB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Ethanol	422	10.0	3.48	795	18.8	6.56		2

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	90		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	90		60-140

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified
Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-09
Client ID: ARREAC-OA
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:50
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 04/07/24 22:35
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.568	0.200	0.076	2.81	0.989	0.374		1
Chloromethane	0.645	0.200	0.058	1.33	0.413	0.119		1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Ethanol	12.0	5.00	1.74	22.6	9.42	3.28		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acetone	4.63	1.00	0.515	11.0	2.38	1.22		1
Trichlorofluoromethane	0.249	0.200	0.079	1.40	1.12	0.442		1
Isopropanol	0.344	0.500	0.272	0.846	1.23	0.669	J	1
Tertiary butyl Alcohol	ND	0.500	0.132	ND	1.52	0.400		1
Methylene chloride	0.513	0.500	0.125	1.78	1.74	0.434		1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145		1
Freon-113	0.084	0.200	0.051	0.644	1.53	0.388	J	1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230		1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
2-Butanone	0.277	0.500	0.099	0.817	1.47	0.292	J	1
Ethyl Acetate	ND	0.500	0.297	ND	1.80	1.07		1
Chloroform	ND	0.200	0.055	ND	0.977	0.270		1
Tetrahydrofuran	0.250	0.500	0.117	0.737	1.47	0.345	J	1

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified
Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-09
Client ID: ARREAC-OA
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:50
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	0.133	0.200	0.074	0.469	0.705	0.262	J	1
Benzene	0.143	0.200	0.064	0.457	0.639	0.205	J	1
Cyclohexane	0.323	0.200	0.073	1.11	0.688	0.251		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Heptane	0.147	0.200	0.083	0.602	0.820	0.339	J	1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	0.163	0.200	0.087	0.614	0.754	0.327	J	1
2-Hexanone	ND	0.200	0.091	ND	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250		1
p/m-Xylene	0.165	0.400	0.125	0.717	1.74	0.543	J	1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	0.552	0.200	0.060	2.35	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1
o-Xylene	ND	0.200	0.062	ND	0.869	0.270		1
4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified

Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-09
Client ID: ARREAC-OA
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:50
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284		1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	ND	0.200	0.078	ND	1.05	0.409		1
Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	93		60-140

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified

Lab Number: L2416214
Report Date: 04/10/24

SAMPLE RESULTS

Lab ID: L2416214-09
Client ID: ARREAC-OA
Sample Location: 140 LEE STREET BUFFALO, NY

Date Collected: 03/25/24 15:50
Date Received: 03/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/07/24 22:35
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	0.009	ND	0.051	0.023		1
1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031		1
cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.040		1
1,1,1-Trichloroethane	ND	0.020	0.006	ND	0.109	0.032		1
Carbon tetrachloride	0.083	0.020	0.011	0.522	0.126	0.069		1
Trichloroethene	0.015	0.020	0.006	0.081	0.107	0.032	J	1
Tetrachloroethene	0.219	0.020	0.007	1.49	0.136	0.050		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	93		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	95		60-140

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified
Lab Number: L2416214
Report Date: 04/10/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 04/07/24 15:17

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-09 Batch: WG1905765-4								
Dichlorodifluoromethane	ND	0.200	0.076	ND	0.989	0.374		1
Chloromethane	ND	0.200	0.058	ND	0.413	0.119		1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Ethanol	ND	5.00	1.74	ND	9.42	3.28		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acetone	ND	1.00	0.515	ND	2.38	1.22		1
Trichlorofluoromethane	ND	0.200	0.079	ND	1.12	0.442		1
Isopropanol	ND	0.500	0.272	ND	1.23	0.669		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1
Tertiary butyl Alcohol	ND	0.500	0.132	ND	1.52	0.400		1
Methylene chloride	ND	0.500	0.125	ND	1.74	0.434		1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145		1
Freon-113	ND	0.200	0.051	ND	1.53	0.388		1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230		1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
2-Butanone	ND	0.500	0.099	ND	1.47	0.292		1
cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236		1
Ethyl Acetate	ND	0.500	0.297	ND	1.80	1.07		1
Chloroform	ND	0.200	0.055	ND	0.977	0.270		1

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified
Lab Number: L2416214
Report Date: 04/10/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 04/07/24 15:17

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-09 Batch: WG1905765-4								
Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345		1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	ND	0.200	0.074	ND	0.705	0.262		1
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335		1
Benzene	ND	0.200	0.064	ND	0.639	0.205		1
Carbon tetrachloride	ND	0.200	0.069	ND	1.26	0.432		1
Cyclohexane	ND	0.200	0.073	ND	0.688	0.251		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	ND	0.200	0.055	ND	1.07	0.295		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Heptane	ND	0.200	0.083	ND	0.820	0.339		1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	ND	0.200	0.087	ND	0.754	0.327		1
2-Hexanone	ND	0.200	0.091	ND	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250		1
p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543		1

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified
Lab Number: L2416214
Report Date: 04/10/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 04/07/24 15:17

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-09 Batch: WG1905765-4								
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	ND	0.200	0.060	ND	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1
o-Xylene	ND	0.200	0.062	ND	0.869	0.270		1
4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1
1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284		1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	ND	0.200	0.078	ND	1.05	0.409		1
Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647		1

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified
Lab Number: L2416214
Report Date: 04/10/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 04/07/24 15:55

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01,03,05,07,09 Batch: WG1905766-4								
Vinyl chloride	ND	0.020	0.009	ND	0.051	0.023		1
1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031		1
cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.040		1
1,1,1-Trichloroethane	ND	0.020	0.006	ND	0.109	0.032		1
Carbon tetrachloride	ND	0.020	0.011	ND	0.126	0.069		1
Trichloroethene	ND	0.020	0.006	ND	0.107	0.032		1
Tetrachloroethene	ND	0.020	0.007	ND	0.136	0.050		1

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified
Lab Number: L2416214
Report Date: 04/10/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 04/08/24 19:54

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 02 Batch: WG1906156-4								
Dichlorodifluoromethane	ND	0.200	0.076	ND	0.989	0.374		1
Chloromethane	ND	0.200	0.058	ND	0.413	0.119		1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Ethanol	ND	5.00	1.74	ND	9.42	3.28		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acetone	ND	1.00	0.515	ND	2.38	1.22		1
Trichlorofluoromethane	ND	0.200	0.079	ND	1.12	0.442		1
Isopropanol	ND	0.500	0.272	ND	1.23	0.669		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1
Tertiary butyl Alcohol	ND	0.500	0.132	ND	1.52	0.400		1
Methylene chloride	ND	0.500	0.125	ND	1.74	0.434		1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145		1
Freon-113	ND	0.200	0.051	ND	1.53	0.388		1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230		1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
2-Butanone	ND	0.500	0.099	ND	1.47	0.292		1
cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236		1
Ethyl Acetate	ND	0.500	0.297	ND	1.80	1.07		1
Chloroform	ND	0.200	0.055	ND	0.977	0.270		1

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified
Lab Number: L2416214
Report Date: 04/10/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 04/08/24 19:54

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 02 Batch: WG1906156-4								
Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345		1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	ND	0.200	0.074	ND	0.705	0.262		1
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335		1
Benzene	ND	0.200	0.064	ND	0.639	0.205		1
Carbon tetrachloride	ND	0.200	0.069	ND	1.26	0.432		1
Cyclohexane	ND	0.200	0.073	ND	0.688	0.251		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	ND	0.200	0.055	ND	1.07	0.295		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Heptane	ND	0.200	0.083	ND	0.820	0.339		1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	ND	0.200	0.087	ND	0.754	0.327		1
2-Hexanone	ND	0.200	0.091	ND	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250		1
p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543		1

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified
Lab Number: L2416214
Report Date: 04/10/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 04/08/24 19:54

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 02 Batch: WG1906156-4								
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	ND	0.200	0.060	ND	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1
o-Xylene	ND	0.200	0.062	ND	0.869	0.270		1
4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1
1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284		1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	ND	0.200	0.078	ND	1.05	0.409		1
Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647		1

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified
Lab Number: L2416214
Report Date: 04/10/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 04/09/24 20:42

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 06,08 Batch: WG1906606-4								
Dichlorodifluoromethane	ND	0.200	0.076	ND	0.989	0.374		1
Chloromethane	ND	0.200	0.058	ND	0.413	0.119		1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Ethanol	ND	5.00	1.74	ND	9.42	3.28		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acetone	ND	1.00	0.515	ND	2.38	1.22		1
Trichlorofluoromethane	ND	0.200	0.079	ND	1.12	0.442		1
Isopropanol	ND	0.500	0.272	ND	1.23	0.669		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1
Tertiary butyl Alcohol	ND	0.500	0.132	ND	1.52	0.400		1
Methylene chloride	ND	0.500	0.125	ND	1.74	0.434		1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145		1
Freon-113	ND	0.200	0.051	ND	1.53	0.388		1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230		1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
2-Butanone	ND	0.500	0.099	ND	1.47	0.292		1
cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236		1
Ethyl Acetate	ND	0.500	0.297	ND	1.80	1.07		1
Chloroform	ND	0.200	0.055	ND	0.977	0.270		1

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified
Lab Number: L2416214
Report Date: 04/10/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 04/09/24 20:42

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 06,08 Batch: WG1906606-4								
Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345		1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	ND	0.200	0.074	ND	0.705	0.262		1
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335		1
Benzene	ND	0.200	0.064	ND	0.639	0.205		1
Carbon tetrachloride	ND	0.200	0.069	ND	1.26	0.432		1
Cyclohexane	ND	0.200	0.073	ND	0.688	0.251		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	ND	0.200	0.055	ND	1.07	0.295		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Heptane	ND	0.200	0.083	ND	0.820	0.339		1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	ND	0.200	0.087	ND	0.754	0.327		1
2-Hexanone	ND	0.200	0.091	ND	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250		1
p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543		1

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified
Lab Number: L2416214
Report Date: 04/10/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 04/09/24 20:42

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 06,08 Batch: WG1906606-4								
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	ND	0.200	0.060	ND	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1
o-Xylene	ND	0.200	0.062	ND	0.869	0.270		1
4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1
1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284		1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	ND	0.200	0.078	ND	1.05	0.409		1
Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified

Lab Number: L2416214
Report Date: 04/10/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-09 Batch: WG1905765-3								
Dichlorodifluoromethane	93		-		70-130	-		
Chloromethane	95		-		70-130	-		
Freon-114	111		-		70-130	-		
Vinyl chloride	106		-		70-130	-		
1,3-Butadiene	116		-		70-130	-		
Bromomethane	106		-		70-130	-		
Chloroethane	108		-		70-130	-		
Ethanol	110		-		40-160	-		
Vinyl bromide	101		-		70-130	-		
Acetone	90		-		40-160	-		
Trichlorofluoromethane	85		-		70-130	-		
Isopropanol	64		-		40-160	-		
1,1-Dichloroethene	108		-		70-130	-		
Tertiary butyl Alcohol	99		-		70-130	-		
Methylene chloride	104		-		70-130	-		
3-Chloropropene	114		-		70-130	-		
Carbon disulfide	103		-		70-130	-		
Freon-113	102		-		70-130	-		
trans-1,2-Dichloroethene	105		-		70-130	-		
1,1-Dichloroethane	102		-		70-130	-		
Methyl tert butyl ether	111		-		70-130	-		
2-Butanone	97		-		70-130	-		
cis-1,2-Dichloroethene	107		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified

Lab Number: L2416214
Report Date: 04/10/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-09 Batch: WG1905765-3								
Ethyl Acetate	113		-		70-130	-		
Chloroform	104		-		70-130	-		
Tetrahydrofuran	105		-		70-130	-		
1,2-Dichloroethane	94		-		70-130	-		
n-Hexane	118		-		70-130	-		
1,1,1-Trichloroethane	100		-		70-130	-		
Benzene	101		-		70-130	-		
Carbon tetrachloride	105		-		70-130	-		
Cyclohexane	119		-		70-130	-		
1,2-Dichloropropane	105		-		70-130	-		
Bromodichloromethane	114		-		70-130	-		
1,4-Dioxane	115		-		70-130	-		
Trichloroethene	107		-		70-130	-		
2,2,4-Trimethylpentane	120		-		70-130	-		
Heptane	115		-		70-130	-		
cis-1,3-Dichloropropene	118		-		70-130	-		
4-Methyl-2-pentanone	114		-		70-130	-		
trans-1,3-Dichloropropene	115		-		70-130	-		
1,1,2-Trichloroethane	105		-		70-130	-		
Toluene	99		-		70-130	-		
2-Hexanone	114		-		70-130	-		
Dibromochloromethane	112		-		70-130	-		
1,2-Dibromoethane	108		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified

Lab Number: L2416214
Report Date: 04/10/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-09 Batch: WG1905765-3								
Tetrachloroethene	107		-		70-130	-		
Chlorobenzene	109		-		70-130	-		
Ethylbenzene	106		-		70-130	-		
p/m-Xylene	109		-		70-130	-		
Bromoform	116		-		70-130	-		
Styrene	116		-		70-130	-		
1,1,2,2-Tetrachloroethane	115		-		70-130	-		
o-Xylene	113		-		70-130	-		
4-Ethyltoluene	121		-		70-130	-		
1,3,5-Trimethylbenzene	114		-		70-130	-		
1,2,4-Trimethylbenzene	120		-		70-130	-		
Benzyl chloride	127		-		70-130	-		
1,3-Dichlorobenzene	112		-		70-130	-		
1,4-Dichlorobenzene	117		-		70-130	-		
1,2-Dichlorobenzene	112		-		70-130	-		
1,2,4-Trichlorobenzene	113		-		70-130	-		
Naphthalene	107		-		70-130	-		
Hexachlorobutadiene	110		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: BUFFALO COLOR - AREA C

Project Number: Not Specified

Lab Number: L2416214

Report Date: 04/10/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01,03,05,07,09 Batch: WG1905766-3								
Vinyl chloride	104		-		70-130	-		25
1,1-Dichloroethene	106		-		70-130	-		25
cis-1,2-Dichloroethene	105		-		70-130	-		25
1,1,1-Trichloroethane	96		-		70-130	-		25
Carbon tetrachloride	100		-		70-130	-		25
Trichloroethene	105		-		70-130	-		25
Tetrachloroethene	105		-		70-130	-		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified

Lab Number: L2416214
Report Date: 04/10/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 02 Batch: WG1906156-3								
Dichlorodifluoromethane	81		-		70-130	-		
Chloromethane	103		-		70-130	-		
Freon-114	99		-		70-130	-		
Vinyl chloride	74		-		70-130	-		
1,3-Butadiene	94		-		70-130	-		
Bromomethane	84		-		70-130	-		
Chloroethane	77		-		70-130	-		
Ethanol	72		-		40-160	-		
Vinyl bromide	88		-		70-130	-		
Acetone	84		-		40-160	-		
Trichlorofluoromethane	**69**	Q	-		70-130	-		
Isopropanol	84		-		40-160	-		
1,1-Dichloroethene	83		-		70-130	-		
Tertiary butyl Alcohol	76		-		70-130	-		
Methylene chloride	97		-		70-130	-		
3-Chloropropene	113		-		70-130	-		
Carbon disulfide	108		-		70-130	-		
Freon-113	98		-		70-130	-		
trans-1,2-Dichloroethene	83		-		70-130	-		
1,1-Dichloroethane	90		-		70-130	-		
Methyl tert butyl ether	96		-		70-130	-		
2-Butanone	108		-		70-130	-		
cis-1,2-Dichloroethene	86		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: BUFFALO COLOR - AREA C

Project Number: Not Specified

Lab Number: L2416214

Report Date: 04/10/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 02 Batch: WG1906156-3								
Ethyl Acetate	92		-		70-130	-		
Chloroform	82		-		70-130	-		
Tetrahydrofuran	110		-		70-130	-		
1,2-Dichloroethane	74		-		70-130	-		
n-Hexane	84		-		70-130	-		
1,1,1-Trichloroethane	89		-		70-130	-		
Benzene	97		-		70-130	-		
Carbon tetrachloride	89		-		70-130	-		
Cyclohexane	86		-		70-130	-		
1,2-Dichloropropane	100		-		70-130	-		
Bromodichloromethane	97		-		70-130	-		
1,4-Dioxane	92		-		70-130	-		
Trichloroethene	95		-		70-130	-		
2,2,4-Trimethylpentane	87		-		70-130	-		
Heptane	123		-		70-130	-		
cis-1,3-Dichloropropene	108		-		70-130	-		
4-Methyl-2-pentanone	123		-		70-130	-		
trans-1,3-Dichloropropene	106		-		70-130	-		
1,1,2-Trichloroethane	104		-		70-130	-		
Toluene	110		-		70-130	-		
2-Hexanone	**154**	Q	-		70-130	-		
Dibromochloromethane	**136**	Q	-		70-130	-		
1,2-Dibromoethane	**132**	Q	-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified

Lab Number: L2416214
Report Date: 04/10/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 02 Batch: WG1906156-3								
Tetrachloroethene	115		-		70-130	-		
Chlorobenzene	118		-		70-130	-		
Ethylbenzene	116		-		70-130	-		
p/m-Xylene	116		-		70-130	-		
Bromoform	**146**	Q	-		70-130	-		
Styrene	128		-		70-130	-		
1,1,2,2-Tetrachloroethane	116		-		70-130	-		
o-Xylene	118		-		70-130	-		
4-Ethyltoluene	122		-		70-130	-		
1,3,5-Trimethylbenzene	123		-		70-130	-		
1,2,4-Trimethylbenzene	124		-		70-130	-		
Benzyl chloride	110		-		70-130	-		
1,3-Dichlorobenzene	124		-		70-130	-		
1,4-Dichlorobenzene	122		-		70-130	-		
1,2-Dichlorobenzene	120		-		70-130	-		
1,2,4-Trichlorobenzene	105		-		70-130	-		
Naphthalene	122		-		70-130	-		
Hexachlorobutadiene	110		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: BUFFALO COLOR - AREA C

Project Number: Not Specified

Lab Number: L2416214

Report Date: 04/10/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 06,08 Batch: WG1906606-3								
Dichlorodifluoromethane	80		-		70-130	-		
Chloromethane	106		-		70-130	-		
Freon-114	101		-		70-130	-		
Vinyl chloride	75		-		70-130	-		
1,3-Butadiene	94		-		70-130	-		
Bromomethane	86		-		70-130	-		
Chloroethane	78		-		70-130	-		
Ethanol	73		-		40-160	-		
Vinyl bromide	90		-		70-130	-		
Acetone	86		-		40-160	-		
Trichlorofluoromethane	71		-		70-130	-		
Isopropanol	87		-		40-160	-		
1,1-Dichloroethene	85		-		70-130	-		
Tertiary butyl Alcohol	77		-		70-130	-		
Methylene chloride	97		-		70-130	-		
3-Chloropropene	116		-		70-130	-		
Carbon disulfide	108		-		70-130	-		
Freon-113	100		-		70-130	-		
trans-1,2-Dichloroethene	85		-		70-130	-		
1,1-Dichloroethane	92		-		70-130	-		
Methyl tert butyl ether	97		-		70-130	-		
2-Butanone	111		-		70-130	-		
cis-1,2-Dichloroethene	88		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: BUFFALO COLOR - AREA C

Project Number: Not Specified

Lab Number: L2416214

Report Date: 04/10/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 06,08 Batch: WG1906606-3								
Ethyl Acetate	96		-		70-130	-		
Chloroform	83		-		70-130	-		
Tetrahydrofuran	113		-		70-130	-		
1,2-Dichloroethane	74		-		70-130	-		
n-Hexane	85		-		70-130	-		
1,1,1-Trichloroethane	90		-		70-130	-		
Benzene	97		-		70-130	-		
Carbon tetrachloride	90		-		70-130	-		
Cyclohexane	87		-		70-130	-		
1,2-Dichloropropane	101		-		70-130	-		
Bromodichloromethane	97		-		70-130	-		
1,4-Dioxane	94		-		70-130	-		
Trichloroethene	98		-		70-130	-		
2,2,4-Trimethylpentane	88		-		70-130	-		
Heptane	126		-		70-130	-		
cis-1,3-Dichloropropene	109		-		70-130	-		
4-Methyl-2-pentanone	126		-		70-130	-		
trans-1,3-Dichloropropene	106		-		70-130	-		
1,1,2-Trichloroethane	106		-		70-130	-		
Toluene	112		-		70-130	-		
2-Hexanone	**157**	Q	-		70-130	-		
Dibromochloromethane	**139**	Q	-		70-130	-		
1,2-Dibromoethane	**132**	Q	-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: BUFFALO COLOR - AREA C

Project Number: Not Specified

Lab Number: L2416214

Report Date: 04/10/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 06,08 Batch: WG1906606-3								
Tetrachloroethene	116		-		70-130	-		
Chlorobenzene	118		-		70-130	-		
Ethylbenzene	117		-		70-130	-		
p/m-Xylene	118		-		70-130	-		
Bromoform	**148**	Q	-		70-130	-		
Styrene	128		-		70-130	-		
1,1,2,2-Tetrachloroethane	118		-		70-130	-		
o-Xylene	120		-		70-130	-		
4-Ethyltoluene	123		-		70-130	-		
1,3,5-Trimethylbenzene	121		-		70-130	-		
1,2,4-Trimethylbenzene	124		-		70-130	-		
Benzyl chloride	112		-		70-130	-		
1,3-Dichlorobenzene	122		-		70-130	-		
1,4-Dichlorobenzene	124		-		70-130	-		
1,2-Dichlorobenzene	120		-		70-130	-		
1,2,4-Trichlorobenzene	108		-		70-130	-		
Naphthalene	127		-		70-130	-		
Hexachlorobutadiene	110		-		70-130	-		

Project Name: BUFFALO COLOR - AREA C

Lab Number: L2416214

Project Number:

Report Date: 04/10/24

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2416214-01	ARREAC-IA-01	01791	Flow 4	03/15/24	458381		-	-	-	Pass	4.5	5.0	11
L2416214-01	ARREAC-IA-01	3883	2.7L Can	02/23/24	456396	L2408563-09	Pass	-29.7	-5.2	-	-	-	-
L2416214-02	ARREAC-SS-01	0790	Flow 4	03/15/24	458381		-	-	-	Pass	4.5	4.8	6
L2416214-02	ARREAC-SS-01	3244	2.7L Can	02/23/24	456396	L2408563-09	Pass	-29.7	-4.5	-	-	-	-
L2416214-03	ARREAC-IA-02	01208	Flow 5	02/23/24	456396		-	-	-	Pass	4.5	4.4	2
L2416214-03	ARREAC-IA-02	2343	2.7L Can	03/15/24	458381	L2413457-01	Pass	-29.7	-5.1	-	-	-	-
L2416214-04	ARREAC-SS-02	02062	Flow 4	02/23/24	456396		-	-	-	Pass	4.5	4.7	4
L2416214-04	ARREAC-SS-02	149B	2.7L Can	02/23/24	456396	L2408563-09	Pass	-29.7	-4.3	-	-	-	-
L2416214-05	ARREAC-IA-03	02427	Flow 5	02/23/24	456396		-	-	-	Pass	4.5	4.6	2
L2416214-05	ARREAC-IA-03	3707	2.7L Can	03/15/24	458381	L2413457-01	Pass	-29.9	-6.8	-	-	-	-
L2416214-06	ARREAC-SS-03	0474	Flow 5	03/15/24	458381		-	-	-	Pass	4.5	4.9	9
L2416214-06	ARREAC-SS-03	3401	2.7L Can	03/15/24	458381	L2413457-01	Pass	-29.9	-4.9	-	-	-	-
L2416214-07	ARREAC-IA-04	0766	Flow 4	03/15/24	458381		-	-	-	Pass	4.5	4.9	9
L2416214-07	ARREAC-IA-04	2040	2.7L Can	03/15/24	458381	L2413457-01	Pass	-29.8	-5.8	-	-	-	-
L2416214-08	ARREAC-SS-04	01287	Flow 4	02/23/24	456396		-	-	-	Pass	4.5	5.3	16

Project Name: BUFFALO COLOR - AREA C

Lab Number: L2416214

Project Number:

Report Date: 04/10/24

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2416214-08	ARREAC-SS-04	3109	2.7L Can	02/23/24	456396	L2408563-09	Pass	-29.7	-4.7	-	-	-	-
L2416214-09	ARREAC-OA	01434	Flow 4	02/23/24	456396		-	-	-	Pass	4.5	5.6	22
L2416214-09	ARREAC-OA	2178	2.7L Can	02/23/24	456396	L2408563-09	Pass	-29.7	-5.0	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2408563
Report Date: 04/10/24

Air Canister Certification Results

Lab ID: L2408563-09
Client ID: CAN 1750 SHELF 1
Sample Location:

Date Collected: 02/16/24 16:00
Date Received: 02/16/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/17/24 22:47
Analyst: JFI

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	0.046	ND	0.707	0.164		1
Propylene	ND	0.500	0.135	ND	0.861	0.232		1
Propane	ND	0.500	0.152	ND	0.902	0.274		1
Dichlorodifluoromethane	ND	0.200	0.076	ND	0.989	0.374		1
Chloromethane	ND	0.200	0.058	ND	0.413	0.119		1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
Methanol	ND	5.00	3.03	ND	6.55	3.97		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Butane	ND	0.200	0.080	ND	0.475	0.190		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Ethanol	ND	5.00	1.74	ND	9.42	3.28		1
Dichlorofluoromethane	ND	0.200	0.112	ND	0.842	0.471		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acrolein	ND	0.500	0.149	ND	1.15	0.342		1
Acetone	ND	1.00	0.515	ND	2.38	1.22		1
Acetonitrile	ND	0.200	0.101	ND	0.336	0.170		1
Trichlorofluoromethane	ND	0.200	0.079	ND	1.12	0.442		1
Isopropanol	ND	0.500	0.272	ND	1.23	0.669		1
Acrylonitrile	ND	0.500	0.089	ND	1.09	0.194		1
Pentane	ND	0.200	0.113	ND	0.590	0.333		1
Ethyl ether	ND	0.200	0.085	ND	0.606	0.259		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2408563
Report Date: 04/10/24

Air Canister Certification Results

Lab ID: L2408563-09
Client ID: CAN 1750 SHELF 1
Sample Location:

Date Collected: 02/16/24 16:00
Date Received: 02/16/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	0.132	ND	1.52	0.400		1
Methylene chloride	ND	0.500	0.125	ND	1.74	0.434		1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145		1
Freon-113	ND	0.200	0.051	ND	1.53	0.388		1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230		1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
Vinyl acetate	ND	1.00	0.323	ND	3.52	1.14		1
Xylenes, total	ND	0.600	0.062	ND	0.869	0.270		1
2-Butanone	ND	0.500	0.099	ND	1.47	0.292		1
cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236		1
Ethyl Acetate	ND	0.500	0.297	ND	1.80	1.07		1
Chloroform	ND	0.200	0.055	ND	0.977	0.270		1
Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345		1
2,2-Dichloropropane	ND	0.200	0.043	ND	0.924	0.198		1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	ND	0.200	0.074	ND	0.705	0.262		1
Diisopropyl ether	ND	0.200	0.063	ND	0.836	0.264		1
tert-Butyl Ethyl Ether	ND	0.200	0.073	ND	0.836	0.306		1
1,2-Dichloroethene (total)	ND	1.00	0.060	ND	1.00	0.236		1
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335		1
1,1-Dichloropropene	ND	0.200	0.059	ND	0.908	0.269		1
Benzene	ND	0.200	0.064	ND	0.639	0.205		1
Carbon tetrachloride	ND	0.200	0.069	ND	1.26	0.432		1
Cyclohexane	ND	0.200	0.073	ND	0.688	0.251		1
tert-Amyl Methyl Ether	ND	0.200	0.067	ND	0.836	0.281		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2408563
Report Date: 04/10/24

Air Canister Certification Results

Lab ID: L2408563-09
Client ID: CAN 1750 SHELF 1
Sample Location:

Date Collected: 02/16/24 16:00
Date Received: 02/16/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	0.060	ND	1.42	0.425		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	ND	0.200	0.055	ND	1.07	0.295		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925		1
Heptane	ND	0.200	0.083	ND	0.820	0.339		1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	ND	0.200	0.087	ND	0.754	0.327		1
1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248		1
2-Hexanone	ND	0.200	0.091	ND	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Butyl acetate	ND	0.500	0.208	ND	2.38	0.989		1
Octane	ND	0.200	0.068	ND	0.934	0.316		1
Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425		1
1,1,1,2-Tetrachloroethane	ND	0.200	0.051	ND	1.37	0.349		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250		1
p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	ND	0.200	0.060	ND	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2408563
Report Date: 04/10/24

Air Canister Certification Results

Lab ID: L2408563-09
Client ID: CAN 1750 SHELF 1
Sample Location:

Date Collected: 02/16/24 16:00
Date Received: 02/16/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	0.062	ND	0.869	0.270		1
1,2,3-Trichloropropane	ND	0.200	0.058	ND	1.21	0.347		1
Nonane	ND	0.200	0.074	ND	1.05	0.387		1
Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305		1
Bromobenzene	ND	0.200	0.058	ND	0.793	0.230		1
2-Chlorotoluene	ND	0.200	0.076	ND	1.04	0.394		1
n-Propylbenzene	ND	0.200	0.063	ND	0.983	0.311		1
4-Chlorotoluene	ND	0.200	0.077	ND	1.04	0.396		1
4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1
tert-Butylbenzene	ND	0.200	0.055	ND	1.10	0.302		1
1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284		1
Decane	ND	0.200	0.070	ND	1.16	0.406		1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
sec-Butylbenzene	ND	0.200	0.055	ND	1.10	0.300		1
p-Isopropyltoluene	ND	0.200	0.057	ND	1.10	0.311		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
n-Butylbenzene	ND	0.200	0.054	ND	1.10	0.294		1
1,2-Dibromo-3-chloropropane	ND	0.200	0.062	ND	1.93	0.603		1
Undecane	ND	0.200	0.071	ND	1.28	0.453		1
Dodecane	ND	0.200	0.089	ND	1.39	0.621		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	ND	0.200	0.078	ND	1.05	0.409		1
1,2,3-Trichlorobenzene	ND	0.200	0.074	ND	1.48	0.548		1
Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2408563
Report Date: 04/10/24

Air Canister Certification Results

Lab ID: L2408563-09
Client ID: CAN 1750 SHELF 1
Sample Location:

Date Collected: 02/16/24 16:00
Date Received: 02/16/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	81		60-140
Bromochloromethane	85		60-140
chlorobenzene-d5	84		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2408563
Report Date: 04/10/24

Air Canister Certification Results

Lab ID: L2408563-09
Client ID: CAN 1750 SHELF 1
Sample Location:

Date Collected: 02/16/24 16:00
Date Received: 02/16/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 02/17/24 22:47
Analyst: JFI

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	0.050	ND	0.989	0.247		1
Chloromethane	ND	0.200	0.076	ND	0.413	0.156		1
Freon-114	ND	0.050	0.006	ND	0.349	0.045		1
Vinyl chloride	ND	0.020	0.009	ND	0.051	0.023		1
1,3-Butadiene	ND	0.020	0.011	ND	0.044	0.024		1
Bromomethane	ND	0.020	0.009	ND	0.078	0.037		1
Chloroethane	ND	0.100	0.040	ND	0.264	0.104		1
Acrolein	ND	0.050	0.039	ND	0.115	0.089		1
Acetone	ND	1.00	0.539	ND	2.38	1.28		1
Trichlorofluoromethane	ND	0.050	0.009	ND	0.281	0.052		1
Acrylonitrile	ND	0.500	0.162	ND	1.09	0.352		1
1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031		1
Methylene chloride	ND	0.500	0.110	ND	1.74	0.382		1
Freon-113	ND	0.050	0.008	ND	0.383	0.064		1
trans-1,2-Dichloroethene	ND	0.020	0.009	ND	0.079	0.036		1
1,1-Dichloroethane	ND	0.020	0.009	ND	0.081	0.035		1
Methyl tert butyl ether	ND	0.200	0.026	ND	0.721	0.094		1
2-Butanone	ND	0.500	0.132	ND	1.47	0.389		1
cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.040		1
Chloroform	ND	0.020	0.007	ND	0.098	0.035		1
1,2-Dichloroethane	ND	0.020	0.008	ND	0.081	0.034		1
1,1,1-Trichloroethane	ND	0.020	0.006	ND	0.109	0.032		1
Benzene	ND	0.100	0.030	ND	0.319	0.095		1
Carbon tetrachloride	ND	0.020	0.011	ND	0.126	0.069		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2408563
Report Date: 04/10/24

Air Canister Certification Results

Lab ID: L2408563-09
Client ID: CAN 1750 SHELF 1
Sample Location:

Date Collected: 02/16/24 16:00
Date Received: 02/16/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	0.008	ND	0.092	0.038		1
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050		1
1,4-Dioxane	ND	0.100	0.034	ND	0.360	0.124		1
Trichloroethene	ND	0.020	0.006	ND	0.107	0.032		1
cis-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.054		1
4-Methyl-2-pentanone	ND	0.500	0.191	ND	2.05	0.783		1
trans-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.052		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053		1
Toluene	ND	0.100	0.017	ND	0.377	0.063		1
Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068		1
1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070		1
Tetrachloroethene	ND	0.020	0.007	ND	0.136	0.050		1
1,1,1,2-Tetrachloroethane	ND	0.020	0.010	ND	0.137	0.069		1
Chlorobenzene	ND	0.100	0.026	ND	0.461	0.119		1
Ethylbenzene	ND	0.020	0.009	ND	0.087	0.037		1
p/m-Xylene	ND	0.040	0.018	ND	0.174	0.078		1
Bromoform	ND	0.020	0.011	ND	0.207	0.115		1
Styrene	ND	0.020	0.008	ND	0.085	0.034		1
1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046		1
o-Xylene	ND	0.020	0.009	ND	0.087	0.038		1
Isopropylbenzene	ND	0.200	0.030	ND	0.983	0.147		1
4-Ethyltoluene	ND	0.020	0.010	ND	0.098	0.049		1
1,3,5-Trimethybenzene	ND	0.020	0.010	ND	0.098	0.047		1
1,2,4-Trimethylbenzene	ND	0.020	0.008	ND	0.098	0.037		1
Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172		1
1,3-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.046		1
1,4-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.045		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2408563
Report Date: 04/10/24

Air Canister Certification Results

Lab ID: L2408563-09
Client ID: CAN 1750 SHELF 1
Sample Location:

Date Collected: 02/16/24 16:00
Date Received: 02/16/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	0.027	ND	1.10	0.146		1
p-Isopropyltoluene	ND	0.200	0.037	ND	1.10	0.201		1
1,2-Dichlorobenzene	ND	0.020	0.006	ND	0.120	0.037		1
n-Butylbenzene	ND	0.200	0.032	ND	1.10	0.175		1
1,2,4-Trichlorobenzene	ND	0.050	0.015	ND	0.371	0.108		1
Naphthalene	ND	0.050	0.021	ND	0.262	0.110		1
1,2,3-Trichlorobenzene	ND	0.050	0.022	ND	0.371	0.166		1
Hexachlorobutadiene	ND	0.050	0.011	ND	0.533	0.117		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	76		60-140
bromochloromethane	81		60-140
chlorobenzene-d5	83		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2413457
Report Date: 04/10/24

Air Canister Certification Results

Lab ID: L2413457-01
Client ID: CAN 549 SHELF 20
Sample Location:

Date Collected: 03/12/24 18:00
Date Received: 03/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/13/24 18:04
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	0.046	ND	0.707	0.164		1
Propylene	ND	0.500	0.135	ND	0.861	0.232		1
Propane	ND	0.500	0.152	ND	0.902	0.274		1
Dichlorodifluoromethane	ND	0.200	0.076	ND	0.989	0.374		1
Chloromethane	ND	0.200	0.058	ND	0.413	0.119		1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
Methanol	ND	5.00	3.03	ND	6.55	3.97		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Butane	ND	0.200	0.080	ND	0.475	0.190		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Ethanol	ND	5.00	1.74	ND	9.42	3.28		1
Dichlorofluoromethane	ND	0.200	0.112	ND	0.842	0.471		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acrolein	ND	0.500	0.149	ND	1.15	0.342		1
Acetone	ND	1.00	0.515	ND	2.38	1.22		1
Acetonitrile	ND	0.200	0.101	ND	0.336	0.170		1
Trichlorofluoromethane	ND	0.200	0.079	ND	1.12	0.442		1
Isopropanol	ND	0.500	0.272	ND	1.23	0.669		1
Acrylonitrile	ND	0.500	0.089	ND	1.09	0.194		1
Pentane	ND	0.200	0.113	ND	0.590	0.333		1
Ethyl ether	ND	0.200	0.085	ND	0.606	0.259		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2413457
Report Date: 04/10/24

Air Canister Certification Results

Lab ID: L2413457-01
Client ID: CAN 549 SHELF 20
Sample Location:

Date Collected: 03/12/24 18:00
Date Received: 03/13/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	0.132	ND	1.52	0.400		1
Methylene chloride	ND	0.500	0.125	ND	1.74	0.434		1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145		1
Freon-113	ND	0.200	0.051	ND	1.53	0.388		1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230		1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
Vinyl acetate	ND	1.00	0.323	ND	3.52	1.14		1
Xylenes, total	ND	0.600	0.062	ND	0.869	0.270		1
2-Butanone	ND	0.500	0.099	ND	1.47	0.292		1
cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236		1
Ethyl Acetate	ND	0.500	0.297	ND	1.80	1.07		1
Chloroform	ND	0.200	0.055	ND	0.977	0.270		1
Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345		1
2,2-Dichloropropane	ND	0.200	0.043	ND	0.924	0.198		1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	ND	0.200	0.074	ND	0.705	0.262		1
Diisopropyl ether	ND	0.200	0.063	ND	0.836	0.264		1
tert-Butyl Ethyl Ether	ND	0.200	0.073	ND	0.836	0.306		1
1,2-Dichloroethene (total)	ND	1.00	0.060	ND	1.00	0.236		1
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335		1
1,1-Dichloropropene	ND	0.200	0.059	ND	0.908	0.269		1
Benzene	ND	0.200	0.064	ND	0.639	0.205		1
Carbon tetrachloride	ND	0.200	0.069	ND	1.26	0.432		1
Cyclohexane	ND	0.200	0.073	ND	0.688	0.251		1
tert-Amyl Methyl Ether	ND	0.200	0.067	ND	0.836	0.281		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2413457
Report Date: 04/10/24

Air Canister Certification Results

Lab ID: L2413457-01
Client ID: CAN 549 SHELF 20
Sample Location:

Date Collected: 03/12/24 18:00
Date Received: 03/13/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	0.060	ND	1.42	0.425		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	ND	0.200	0.055	ND	1.07	0.295		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925		1
Heptane	ND	0.200	0.083	ND	0.820	0.339		1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	ND	0.200	0.087	ND	0.754	0.327		1
1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248		1
2-Hexanone	ND	0.200	0.091	ND	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Butyl acetate	ND	0.500	0.208	ND	2.38	0.989		1
Octane	ND	0.200	0.068	ND	0.934	0.316		1
Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425		1
1,1,1,2-Tetrachloroethane	ND	0.200	0.051	ND	1.37	0.349		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250		1
p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	ND	0.200	0.060	ND	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2413457
Report Date: 04/10/24

Air Canister Certification Results

Lab ID: L2413457-01
Client ID: CAN 549 SHELF 20
Sample Location:

Date Collected: 03/12/24 18:00
Date Received: 03/13/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	0.062	ND	0.869	0.270		1
1,2,3-Trichloropropane	ND	0.200	0.058	ND	1.21	0.347		1
Nonane	ND	0.200	0.074	ND	1.05	0.387		1
Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305		1
Bromobenzene	ND	0.200	0.058	ND	0.793	0.230		1
2-Chlorotoluene	ND	0.200	0.076	ND	1.04	0.394		1
n-Propylbenzene	ND	0.200	0.063	ND	0.983	0.311		1
4-Chlorotoluene	ND	0.200	0.077	ND	1.04	0.396		1
4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1
tert-Butylbenzene	ND	0.200	0.055	ND	1.10	0.302		1
1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284		1
Decane	ND	0.200	0.070	ND	1.16	0.406		1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
sec-Butylbenzene	ND	0.200	0.055	ND	1.10	0.300		1
p-Isopropyltoluene	ND	0.200	0.057	ND	1.10	0.311		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
n-Butylbenzene	ND	0.200	0.054	ND	1.10	0.294		1
1,2-Dibromo-3-chloropropane	ND	0.200	0.062	ND	1.93	0.603		1
Undecane	ND	0.200	0.071	ND	1.28	0.453		1
Dodecane	ND	0.200	0.089	ND	1.39	0.621		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	ND	0.200	0.078	ND	1.05	0.409		1
1,2,3-Trichlorobenzene	ND	0.200	0.074	ND	1.48	0.548		1
Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2413457
Report Date: 04/10/24

Air Canister Certification Results

Lab ID: L2413457-01
Client ID: CAN 549 SHELF 20
Sample Location:

Date Collected: 03/12/24 18:00
Date Received: 03/13/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	93		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2413457
Report Date: 04/10/24

Air Canister Certification Results

Lab ID: L2413457-01
Client ID: CAN 549 SHELF 20
Sample Location:

Date Collected: 03/12/24 18:00
Date Received: 03/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/13/24 18:04
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	0.050	ND	0.989	0.247		1
Chloromethane	ND	0.200	0.076	ND	0.413	0.156		1
Freon-114	ND	0.050	0.006	ND	0.349	0.045		1
Vinyl chloride	ND	0.020	0.009	ND	0.051	0.023		1
1,3-Butadiene	ND	0.020	0.011	ND	0.044	0.024		1
Bromomethane	ND	0.020	0.009	ND	0.078	0.037		1
Chloroethane	ND	0.100	0.040	ND	0.264	0.104		1
Acrolein	ND	0.050	0.039	ND	0.115	0.089		1
Acetone	ND	1.00	0.539	ND	2.38	1.28		1
Trichlorofluoromethane	ND	0.050	0.009	ND	0.281	0.052		1
Acrylonitrile	ND	0.500	0.162	ND	1.09	0.352		1
1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031		1
Methylene chloride	ND	0.500	0.110	ND	1.74	0.382		1
Freon-113	ND	0.050	0.008	ND	0.383	0.064		1
trans-1,2-Dichloroethene	ND	0.020	0.009	ND	0.079	0.036		1
1,1-Dichloroethane	ND	0.020	0.009	ND	0.081	0.035		1
Methyl tert butyl ether	ND	0.200	0.026	ND	0.721	0.094		1
2-Butanone	ND	0.500	0.132	ND	1.47	0.389		1
cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.040		1
Chloroform	ND	0.020	0.007	ND	0.098	0.035		1
1,2-Dichloroethane	ND	0.020	0.008	ND	0.081	0.034		1
1,1,1-Trichloroethane	ND	0.020	0.006	ND	0.109	0.032		1
Benzene	ND	0.100	0.030	ND	0.319	0.095		1
Carbon tetrachloride	ND	0.020	0.011	ND	0.126	0.069		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2413457
Report Date: 04/10/24

Air Canister Certification Results

Lab ID: L2413457-01
Client ID: CAN 549 SHELF 20
Sample Location:

Date Collected: 03/12/24 18:00
Date Received: 03/13/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	0.008	ND	0.092	0.038		1
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050		1
1,4-Dioxane	ND	0.100	0.034	ND	0.360	0.124		1
Trichloroethene	ND	0.020	0.006	ND	0.107	0.032		1
cis-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.054		1
4-Methyl-2-pentanone	ND	0.500	0.191	ND	2.05	0.783		1
trans-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.052		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053		1
Toluene	ND	0.100	0.017	ND	0.377	0.063		1
Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068		1
1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070		1
Tetrachloroethene	ND	0.020	0.007	ND	0.136	0.050		1
1,1,1,2-Tetrachloroethane	ND	0.020	0.010	ND	0.137	0.069		1
Chlorobenzene	ND	0.100	0.026	ND	0.461	0.119		1
Ethylbenzene	ND	0.020	0.009	ND	0.087	0.037		1
p/m-Xylene	ND	0.040	0.018	ND	0.174	0.078		1
Bromoform	ND	0.020	0.011	ND	0.207	0.115		1
Styrene	ND	0.020	0.008	ND	0.085	0.034		1
1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046		1
o-Xylene	ND	0.020	0.009	ND	0.087	0.038		1
Isopropylbenzene	ND	0.200	0.030	ND	0.983	0.147		1
4-Ethyltoluene	ND	0.020	0.010	ND	0.098	0.049		1
1,3,5-Trimethybenzene	ND	0.020	0.010	ND	0.098	0.047		1
1,2,4-Trimethylbenzene	ND	0.020	0.008	ND	0.098	0.037		1
Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172		1
1,3-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.046		1
1,4-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.045		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2413457
Report Date: 04/10/24

Air Canister Certification Results

Lab ID: L2413457-01
Client ID: CAN 549 SHELF 20
Sample Location:

Date Collected: 03/12/24 18:00
Date Received: 03/13/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	0.027	ND	1.10	0.146		1
p-Isopropyltoluene	ND	0.200	0.037	ND	1.10	0.201		1
1,2-Dichlorobenzene	ND	0.020	0.006	ND	0.120	0.037		1
n-Butylbenzene	ND	0.200	0.032	ND	1.10	0.175		1
1,2,4-Trichlorobenzene	ND	0.050	0.015	ND	0.371	0.108		1
Naphthalene	ND	0.050	0.021	ND	0.262	0.110		1
1,2,3-Trichlorobenzene	ND	0.050	0.022	ND	0.371	0.166		1
Hexachlorobutadiene	ND	0.050	0.011	ND	0.533	0.117		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	89		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	93		60-140

Project Name: BUFFALO COLOR - AREA C
Project Number: Not Specified

Lab Number: L2416214
Report Date: 04/10/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
N/A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2416214-01A	Canister - 2.7L (Batch Certified)	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2416214-02A	Canister - 2.7L (Batch Certified)	N/A	NA			Y	Absent		TO15-LL(30)
L2416214-03A	Canister - 2.7L (Batch Certified)	N/A	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2416214-04A	Canister - 2.7L (Batch Certified)	N/A	NA			Y	Absent		TO15-LL(30)
L2416214-05A	Canister - 2.7L (Batch Certified)	N/A	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2416214-06A	Canister - 2.7L (Batch Certified)	N/A	NA			Y	Absent		TO15-LL(30)
L2416214-07A	Canister - 2.7L (Batch Certified)	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2416214-08A	Canister - 2.7L (Batch Certified)	N/A	NA			Y	Absent		TO15-LL(30)
L2416214-09A	Canister - 2.7L (Batch Certified)	N/A	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	BUFFALO COLOR - AREA C	**Lab Number:**	L2416214
Project Number:	Not Specified	**Report Date:**	04/10/24

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	BUFFALO COLOR - AREA C	**Lab Number:**	L2416214
Project Number:	Not Specified	**Report Date:**	04/10/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	BUFFALO COLOR - AREA C	**Lab Number:**	L2416214
Project Number:	Not Specified	**Report Date:**	04/10/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 3/26/24

ALPHA Job #: L2416214

Client Information

Client: Inventum Engineering
Address: 441 Carlisle Drive
Herndon, VA 20170
Phone: 571-752-6558
Fax:
Email: peter.zaffram@inventumeng.com
todd.waldrop@inventumeng.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Buffalo Color - Area C
Project Location: 140 Lee Street Buffalo, NY
Project #:
Project Manager: Todd Waldrop
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☒ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)
Todd Waldrop

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm
NY		

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	ANALYSIS TO-15	TO-15 SIM	APH Subject Non-petroleum HCs	Fixed Gases	Sulfides & Mercaptans by TO-15	☐	Sample Comments (i.e. PID)
L6244-01	AreaC-IA-01	3/25/24	7:59	15:06	25.72	4.28	AA	CB	2.7L	3883	01791	X	X					Indoor AA
02	AreaC-SS-01	3/25/24	7:59	15:20	29.54	4.60	SV	CB	2.7L	3244	0790	X	X					subslab
03	AreaC-IA-02	3/25/24	7:50	15:04	29.76	4.38	AA	CB	2.7L	2343	01208	X	X					Indoor AA
04	AreaC-SS-02	3/25/24	7:50	15:45	29.79	4.19	SV	CB	2.7L	1498	020602	X	X					subslab
05	AreaC-IA-03	3/25/24	7:45	16:06	29.73	5.93	AA	CB	2.7L	3707	02427	X	X					Indoor AA
06	AreaC-SS-03	3/25/24	7:45	15:58	29.71	4.73	SV	CB	2.7L	3401	0474	X	X					subslab
07	AreaC-IA-04	3/25/24	7:40	15:15	29.46	4.82	AA	CB	2.7L	2040	0766	X	X					Indoor AA
08	AreaC-SS-04	3/25/24	7:40	15:50	29.59	4.46	SV	CB	2.7L	3109	01287	X	X					Subslab
09	Area C -OA	3/25/24	8:05	15:36	29.51	3.10	AA	CB	2.7L	2178	01434	X	X					outdoor AA

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
Corey Boynton	3/25/24 16:44	C. Quigley	3.25.24 16:40
C. Quigley	3/25/24 16:42	Ed Mendoza AAL	3/26/24 0040
Ed Mendoza AAL	3/26/24 500		3/26/24 0500
	3/26/24 0630		3/26/24 0630

Attachment B2 – Data Usability Summary Report

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

Buffalo Color-Area C, 140 Lee St., Buffalo, NY
SDG#L2416214
May 25, 2024
Sampling date: 3/24/2024

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Inventum Engineering, project located at Buffalo Color-Area C, 140 Lee St., Buffalo, NY, Alpha Analytical, SDG#L2416214 submitted to Vali-Data of WNY, LLC on May 20, 2024. This DUSR has been prepared in general compliance with NYSDEC Analytical Services Protocols and USEPA National Functional Guidelines (SOP NO. HW-31, revision 6). The laboratory performed the analysis using Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

ID	Sample ID	Laboratory ID
1	ARREAC-IA-01	L2416214-01
2	ARREAC-SS-01	L2416214-02
3	ARREAC-IA-02	L2416214-03
4	ARREAC-SS-02	L2416214-04
5	ARREAC-IA-03	L2416214-05
6	ARREAC-SS-03	L2416214-06
7	ARREAC-IA-04	L2416214-07
8	ARREAC-SS-04	L2416214-08
9	ARREAC-OA	L2416214-09

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Internal Standard (IS) Area Performance
-Method Blank
-Field Duplicate Sample Precision
-Laboratory Control Samples
-MS/MSD/Duplicate
-Compound Quantitation
-Initial Calibration
-Continuing Calibration
-GC/MS Performance Check
-Canister Certification Blanks

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Laboratory Control Samples, Initial Calibration and Continuing Calibration.

Samples: DUSR ID#2, #6 and #8 were diluted due to high target analyte concentrations.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met except the can for DUSR ID#4 was recorded as 149B on the 'Canister and Flow Controller Information' but 1498 on the Chain of Custody. This does not affect the usability if the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

METHOD BLANK
All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met except the %Rec of a target analyte was outside QC limits in a laboratory control sample and should be qualified as estimated.

LCS ID	Target Analyte	#Rec	Qualifier	Associated Sample
WG1905765-3	Isopropanol	64	J	1-9

The %Rec of several target analytes was outside QC limits in the laboratory control samples These target analytes were not monitored in the associated samples, so no further action is required.

MS/MSD/DUPLICATE
No MS/MSD/Duplicate was acquired.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met except a couple of target analytes were outside QC limits in the Initial Calibration and/or the Initial Calibration Verification and should be qualified as estimated in the associated samples, blanks and spikes.

ICal/ICV Instrument	Target Analyte	%RSD/%D	Qualifier	Associated Sample
ICcal Airpiano4	Trichlorofluoromethane	30.9	UJ/J	WG1905765, 1-9
ICV Airpiano4	Acetone	-40.3	UJ/J	WG1905765, 1-9

CONTINUING CALIBRATION
All criteria were met except several target analytes were outside QC limits in the continuing calibrations and should be qualified as estimated in the associated samples, blanks and spikes.

Ccal ID	Target Analyte	%D	Qualifier	Associated Sample
WG1905765-2	1,2,4-Trichlorobenzene	-32.9	UJ/J	WG1905765, 1-9
WG1906156-2	Heptane	-31.1	UJ/J	WG1906156
WG1906156-2	2-Hexanone	-62.3	UJ/J	WG1906156
WG1906156-2	Dibromochloromethane	-37.2	UJ/J	WG1906156
WG1906156-2	1,2-Dibromoethane	-34.7	UJ/J	WG1906156
WG1906156-2	Bromoform	-50.1	UJ/J	WG1906156
WG1906156-2	4-Ethyl toluene	-32.3	UJ/J	WG1906156
WG1906156-2	1,2,4-Trichlorobenzene	-35.1	UJ/J	WG1906156
WG1906606-2	Heptane	-32.6	UJ/J	WG1906606
WG1906606-2	2-Hexanone	-66.8	UJ/J	WG1906606
WG1906606-2	Dibromochloromethane	-39.4	UJ/J	WG1906606
WG1906606-2	1,2-Dibromoethane	-35.3	UJ/J	WG1906606
WG1906606-2	Bromoform	-50.3	UJ/J	WG1906606
WG1906606-2	4-Ethyl toluene	-32	UJ/J	WG1906606
WG1906606-2	1,2,4-Trichlorobenzene	-37.1	UJ/J	WG1906606
WG1906606-2	4-Methyl-2pentanone	-31.4	UJ/J	WG1906606
WG1906606-2	1,4-Dichlorobenzene	-31.8	UJ/J	WG1906606
WG1906606-2	Naphthalene	-35	UJ/J	WG1906606

GC/MS PERFORMANCE CHECK
All criteria were met.

CANISTER CERTIFICATION BLANKS
All criteria were met.

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on February 23 and March 15, 2024. The canister certification data is provided as an addendum.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics in Air

L2416214-06D and -08D: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J Anderson Report Date: 04/11/24

Title: Technical Director/Representative

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

ALPHA ANALYTICAL
320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 3/26/24

ALPHA Job #: L2416214

Client Information

Client: Inventum Engineering
Address: 441 Carlisle Drive
Herndon, VA 20170
Phone: 571-752-6558
Fax:
Email: peter.zaffram@inventumeng.com
todd.waldrop@inventumeng.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Buffalo Color - Area C
Project Location: 140 Lee Street Buffalo, NY
Project #:
Project Manager: Todd Waldrop
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☒ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager) Todd Waldrop

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm
NY		

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH Subject Non-petroleum HCs	Fixed Gases	Sulfides & Mercaptans by TO-15	☐	Sample Comments (i.e. PID)
L6244-01	Area C-IA-01	3/25/24	7:59	15:06	25.72	4.28	AA	CB	2.7L	3883	01791	X	X					Indoor AA
02	Area C-SS-01	3/25/24	7:59	15:20	29.54	4.60	SV	CB	2.7L	3244	0790	X	X					Subslab
03	Area C-IA-02	3/25/24	7:50	15:04	29.76	4.38	AA	CB	2.7L	2343	01208	X	X					Indoor AA
04	Area C-SS-02	3/25/24	7:50	15:45	29.79	4.19	SV	CB	2.7L	1498	02062	X	X					Subslab
05	Area C-IA-03	3/25/24	7:45	16:06	29.73	5.93	AA	CB	2.7L	3707	02427	X	X					Indoor AA
06	Area C-SS-03	3/25/24	7:45	15:58	29.71	4.73	SV	CB	2.7L	3401	0474	X	X					Subslab
07	Area C-IA-04	3/25/24	7:40	15:15	29.46	4.82	AA	CB	2.7L	2040	0766	X	X					Indoor AA
08	Area C-SS-04	3/25/24	7:40	15:50	29.59	4.46	SV	CB	2.7L	3109	01287	X	X					Subslab
09	Area C-OA	3/25/24	8:05	15:36	29.51	3.10	AA	CB	2.7L	2178	01434	X	X					Outdoor AA

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
Corey Boynton	3/25/24 16:44	C. Quigley	3-25-24 16:40
C. Quigley	3/25/24 16:42	Ed Mendoza AAL	3/26/24 0040
Ed Mendoza AAL	3/26/24 500		3/26/24 0500
	3/26/24 0630		3/26/24 0630

Form No: 101-02 Rev: (25-Sep-15)

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2416214-01	ARREAC-IA-01	01791	Flow 4	03/15/24	458381		-	-	-	Pass	4.5	5.0	11
L2416214-01	ARREAC-IA-01	3883	2.7L Can	02/23/24	456396	L2408563-09	Pass	-29.7	-5.2	-	-	-	-
L2416214-02	ARREAC-SS-01	0790	Flow 4	03/15/24	458381		-	-	-	Pass	4.5	4.8	6
L2416214-02	ARREAC-SS-01	3244	2.7L Can	02/23/24	456396	L2408563-09	Pass	-29.7	-4.5	-	-	-	-
L2416214-03	ARREAC-IA-02	01208	Flow 5	02/23/24	456396		-	-	-	Pass	4.5	4.4	2
L2416214-03	ARREAC-IA-02	2343	2.7L Can	03/15/24	458381	L2413457-01	Pass	-29.7	-5.1	-	-	-	-
L2416214-04	ARREAC-SS-02	02062	Flow 4	02/23/24	456396		-	-	-	Pass	4.5	4.7	4
L2416214-04	ARREAC-SS-02	149B	2.7L Can	02/23/24	456396	L2408563-09	Pass	-29.7	-4.3	-	-	-	-
L2416214-05	ARREAC-IA-03	02427	Flow 5	02/23/24	456396		-	-	-	Pass	4.5	4.6	2
L2416214-05	ARREAC-IA-03	3707	2.7L Can	03/15/24	458381	L2413457-01	Pass	-29.9	-6.8	-	-	-	-
L2416214-06	ARREAC-SS-03	0474	Flow 5	03/15/24	458381		-	-	-	Pass	4.5	4.9	9
L2416214-06	ARREAC-SS-03	3401	2.7L Can	03/15/24	458381	L2413457-01	Pass	-29.9	-4.9	-	-	-	-
L2416214-07	ARREAC-IA-04	0766	Flow 4	03/15/24	458381		-	-	-	Pass	4.5	4.9	9
L2416214-07	ARREAC-IA-04	2040	2.7L Can	03/15/24	458381	L2413457-01	Pass	-29.8	-5.8	-	-	-	-
L2416214-08	ARREAC-SS-04	01287	Flow 4	02/23/24	456396		-	-	-	Pass	4.5	5.3	16

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: Inventum Engineering	**Lab Number**	: L2416214
Project Name	: BUFFALO COLOR - AREA C	**Project Number**	:
Matrix (Level)	: AIR (LOW)		
LCS Sample ID	: WG1905765-3	**Analysis Date** : 04/07/24 12:42	**File ID** : r433032
LCSD Sample ID	:	**Analysis Date** :	**File ID** :

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R	RPD	Recovery Limits	RPD Limit
Dichlorodifluoromethane	10	9.33	93				-	70-130	-
Chloromethane	10	9.50	95				-	70-130	-
Freon-114	10	11.1	111				-	70-130	-
Vinyl chloride	10	10.6	106				-	70-130	-
1,3-Butadiene	10	11.6	116				-	70-130	-
Bromomethane	10	10.6	106				-	70-130	-
Chloroethane	10	10.8	108				-	70-130	-
Ethanol	50	55.2	110				-	40-160	-
Vinyl bromide	10	10.1	101				-	70-130	-
Acetone	50	44.8	90				-	40-160	-
Trichlorofluoromethane	10	8.48	85				-	70-130	-
Isopropanol	25	15.9	64				-	40-160	-
1,1-Dichloroethene	10	10.8	108				-	70-130	-
Tertiary butyl Alcohol	10	9.93	99				-	70-130	-
Methylene chloride	10	10.4	104				-	70-130	-
3-Chloropropene	10	11.4	114				-	70-130	-
Carbon disulfide	10	10.3	103				-	70-130	-
Freon-113	10	10.2	102				-	70-130	-
trans-1,2-Dichloroethene	10	10.5	105				-	70-130	-
1,1-Dichloroethane	10	10.2	102				-	70-130	-
Methyl tert butyl ether	10	11.1	111				-	70-130	-
2-Butanone	10	9.70	97				-	70-130	-
cis-1,2-Dichloroethene	10	10.7	107				-	70-130	-
Ethyl Acetate	10	11.3	113				-	70-130	-
Chloroform	10	10.4	104				-	70-130	-
Tetrahydrofuran	10	10.5	105				-	70-130	-

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	Lab Number	: L2416214
Project Name	: BUFFALO COLOR - AREA C	Project Number	:
Lab ID	: L2416214-01	Date Collected	: 03/25/24 15:06
Client ID	: ARREAC-IA-01	Date Received	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	Date Analyzed	: 04/07/24 23:13
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R433044	Instrument ID	: AIRPIANO4
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.570	0.200	0.076	2.82	0.989	0.374	
74-87-3	Chloromethane	0.578	0.200	0.058	1.19	0.413	0.119	
76-14-2	Freon-114	ND	0.200	0.050	ND	1.40	0.352	U
106-99-0	1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137	U
74-83-9	Bromomethane	ND	0.200	0.055	ND	0.777	0.212	U
75-00-3	Chloroethane	ND	0.200	0.065	ND	0.528	0.171	U
64-17-5	Ethanol	481	5.00	1.74	906	9.42	3.28	
593-60-2	Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316	U
67-64-1	Acetone	24.4	1.00	0.515	58.0	2.38	1.22	
75-69-4	Trichlorofluoromethane	0.470	0.200	0.079	2.64	1.12	0.442	
67-63-0	Isopropanol	1.28	0.500	0.272	3.15	1.23	0.669	
75-65-0	Tertiary butyl Alcohol	0.944	0.500	0.132	2.86	1.52	0.400	
75-09-2	Methylene chloride	7.47	0.500	0.125	26.0	1.74	0.434	
107-05-1	3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269	U
75-15-0	Carbon disulfide	0.179	0.200	0.047	0.557	0.623	0.145	J
76-13-1	Freon-113	0.083	0.200	0.051	0.636	1.53	0.388	J
156-60-5	trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299	U
75-34-3	1,1-Dichloroethane	0.085	0.200	0.057	0.344	0.809	0.230	J
1634-04-4	Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162	U
78-93-3	2-Butanone	2.99	0.500	0.099	8.82	1.47	0.292	
141-78-6	Ethyl Acetate	1.05	0.500	0.297	3.78	1.80	1.07	
67-66-3	Chloroform	0.084	0.200	0.055	0.410	0.977	0.270	J
109-99-9	Tetrahydrofuran	3.46	0.500	0.117	10.2	1.47	0.345	
107-06-2	1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319	U
110-54-3	n-Hexane	0.565	0.200	0.074	1.99	0.705	0.262	
71-43-2	Benzene	0.210	0.200	0.064	0.671	0.639	0.205	

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	Lab Number	: L2416214
Project Name	: BUFFALO COLOR - AREA C	Project Number	:
Lab ID	: L2416214-01	Date Collected	: 03/25/24 15:06
Client ID	: ARREAC-IA-01	Date Received	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	Date Analyzed	: 04/07/24 23:13
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R433044	Instrument ID	: AIRPIANO4
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-82-7	Cyclohexane	0.497	0.200	0.073	1.71	0.688	0.251	
78-87-5	1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292	U
75-27-4	Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462	U
123-91-1	1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323	U
142-82-5	Heptane	0.532	0.200	0.083	2.18	0.820	0.339	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318	U
108-88-3	Toluene	0.490	0.200	0.087	1.85	0.754	0.327	
591-78-6	2-Hexanone	0.317	0.200	0.091	1.30	0.820	0.374	
124-48-1	Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482	U
106-93-4	1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418	U
108-90-7	Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238	U
100-41-4	Ethylbenzene	1.96	0.200	0.058	8.51	0.869	0.250	
179601-23-1	p/m-Xylene	6.46	0.400	0.125	28.1	1.74	0.543	
75-25-2	Bromoform	ND	0.200	0.060	ND	2.07	0.616	U
100-42-5	Styrene	0.260	0.200	0.060	1.11	0.852	0.254	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357	U
95-47-6	o-Xylene	1.35	0.200	0.062	5.86	0.869	0.270	
622-96-8	4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295	U
95-63-6	1,2,4-Trimethylbenzene	0.161	0.200	0.058	0.792	0.983	0.284	J
100-44-7	Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	**Lab Number**	: L2416214
Project Name	: BUFFALO COLOR - AREA C	**Project Number**	:
Lab ID	: L2416214-01	**Date Collected**	: 03/25/24 15:06
Client ID	: ARREAC-IA-01	**Date Received**	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	**Date Analyzed**	: 04/07/24 23:13
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: KJD
Lab File ID	: R433044	**Instrument ID**	: AIRPIANO4
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
106-46-7	1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742	U
91-20-3	Naphthalene	ND	0.200	0.078	ND	1.05	0.409	U
87-68-3	Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	Lab Number	: L2416214
Project Name	: BUFFALO COLOR - AREA C	Project Number	:
Lab ID	: L2416214-02	Date Collected	: 03/25/24 15:20
Client ID	: ARREAC-SS-01	Date Received	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	Date Analyzed	: 04/08/24 01:47
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R433048	Instrument ID	: AIRPIANO4
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.566	0.200	0.076	2.80	0.989	0.374	
74-87-3	Chloromethane	0.575	0.200	0.058	1.19	0.413	0.119	
76-14-2	Freon-114	ND	0.200	0.050	ND	1.40	0.352	U
75-01-4	Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149	U
106-99-0	1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137	U
74-83-9	Bromomethane	ND	0.200	0.055	ND	0.777	0.212	U
75-00-3	Chloroethane	ND	0.200	0.065	ND	0.528	0.171	U
64-17-5	Ethanol	514	5.00	1.74	969E	9.42	3.28	E
593-60-2	Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316	U
67-64-1	Acetone	26.6	1.00	0.515	63.2	2.38	1.22	
75-69-4	Trichlorofluoromethane	0.467	0.200	0.079	2.62	1.12	0.442	
67-63-0	Isopropanol	1.66	0.500	0.272	4.08	1.23	0.669	
75-35-4	1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225	U
75-65-0	Tertiary butyl Alcohol	1.03	0.500	0.132	3.12	1.52	0.400	
75-09-2	Methylene chloride	7.44	0.500	0.125	25.8	1.74	0.434	
107-05-1	3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269	U
75-15-0	Carbon disulfide	0.193	0.200	0.047	0.601	0.623	0.145	J
76-13-1	Freon-113	0.082	0.200	0.051	0.628	1.53	0.388	J
156-60-5	trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299	U
75-34-3	1,1-Dichloroethane	0.093	0.200	0.057	0.376	0.809	0.230	J
1634-04-4	Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162	U
78-93-3	2-Butanone	3.16	0.500	0.099	9.32	1.47	0.292	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236	U
141-78-6	Ethyl Acetate	1.17	0.500	0.297	4.22	1.80	1.07	
67-66-3	Chloroform	0.084	0.200	0.055	0.410	0.977	0.270	J
109-99-9	Tetrahydrofuran	3.05	0.500	0.117	9.00	1.47	0.345	

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	Lab Number	: L2416214
Project Name	: BUFFALO COLOR - AREA C	Project Number	:
Lab ID	: L2416214-02	Date Collected	: 03/25/24 15:20
Client ID	: ARREAC-SS-01	Date Received	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	Date Analyzed	: 04/08/24 01:47
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R433048	Instrument ID	: AIRPIANO4
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
107-06-2	1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319	U
110-54-3	n-Hexane	0.598	0.200	0.074	2.11	0.705	0.262	
71-55-6	1,1,1-Trichloroethane	0.291	0.200	0.061	1.59	1.09	0.335	
71-43-2	Benzene	0.231	0.200	0.064	0.738	0.639	0.205	
56-23-5	Carbon tetrachloride	0.080	0.200	0.069	0.503	1.26	0.432	J
110-82-7	Cyclohexane	0.495	0.200	0.073	1.70	0.688	0.251	
78-87-5	1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292	U
75-27-4	Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462	U
123-91-1	1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194	U
79-01-6	Trichloroethene	ND	0.200	0.055	ND	1.07	0.295	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323	U
142-82-5	Heptane	0.577	0.200	0.083	2.36	0.820	0.339	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318	U
108-88-3	Toluene	0.565	0.200	0.087	2.13	0.754	0.327	
591-78-6	2-Hexanone	0.355	0.200	0.091	1.45	0.820	0.374	
124-48-1	Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482	U
106-93-4	1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418	U
127-18-4	Tetrachloroethene	21.8	0.200	0.063	148	1.36	0.425	
108-90-7	Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238	U
100-41-4	Ethylbenzene	2.08	0.200	0.058	9.03	0.869	0.250	
179601-23-1	p/m-Xylene	6.85	0.400	0.125	29.8	1.74	0.543	
75-25-2	Bromoform	ND	0.200	0.060	ND	2.07	0.616	U
100-42-5	Styrene	0.271	0.200	0.060	1.15	0.852	0.254	

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	**Lab Number**	: L2416214
Project Name	: BUFFALO COLOR - AREA C	**Project Number**	:
Lab ID	: L2416214-02	**Date Collected**	: 03/25/24 15:20
Client ID	: ARREAC-SS-01	**Date Received**	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	**Date Analyzed**	: 04/08/24 01:47
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: KJD
Lab File ID	: R433048	**Instrument ID**	: AIRPIANO4
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357	U
95-47-6	o-Xylene	1.46	0.200	0.062	6.34	0.869	0.270	
622-96-8	4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272	U
108-67-8	1,3,5-Trimethylbenzene	0.081	0.200	0.060	0.398	0.983	0.295	J
95-63-6	1,2,4-Trimethylbenzene	0.224	0.200	0.058	1.10	0.983	0.284	
100-44-7	Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742	U
91-20-3	Naphthalene	0.087	0.200	0.078	0.456	1.05	0.409	J
87-68-3	Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	**Lab Number**	: L2416214
Project Name	: BUFFALO COLOR - AREA C	**Project Number**	:
Lab ID	: L2416214-02D	**Date Collected**	: 03/25/24 15:20
Client ID	: ARREAC-SS-01	**Date Received**	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	**Date Analyzed**	: 04/09/24 09:55
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 2
Analytical Method	: 48,TO-15	**Analyst**	: JMB
Lab File ID	: R1739858	**Instrument ID**	: AIRLAB17
Sample Amount	: 125 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
64-17-5	Ethanol	416	10.0	3.48	784	18.8	6.56	

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	Lab Number	: L2416214
Project Name	: BUFFALO COLOR - AREA C	Project Number	:
Lab ID	: L2416214-03	Date Collected	: 03/25/24 15:04
Client ID	: ARREAC-IA-02	Date Received	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	Date Analyzed	: 04/07/24 23:52
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R433045	Instrument ID	: AIRPIANO4
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.558	0.200	0.076	2.76	0.989	0.374	
74-87-3	Chloromethane	0.540	0.200	0.058	1.12	0.413	0.119	
76-14-2	Freon-114	ND	0.200	0.050	ND	1.40	0.352	U
106-99-0	1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137	U
74-83-9	Bromomethane	ND	0.200	0.055	ND	0.777	0.212	U
75-00-3	Chloroethane	ND	0.200	0.065	ND	0.528	0.171	U
64-17-5	Ethanol	381	5.00	1.74	718	9.42	3.28	
593-60-2	Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316	U
67-64-1	Acetone	21.9	1.00	0.515	52.0	2.38	1.22	
75-69-4	Trichlorofluoromethane	0.452	0.200	0.079	2.54	1.12	0.442	
67-63-0	Isopropanol	1.24	0.500	0.272	3.05	1.23	0.669	
75-65-0	Tertiary butyl Alcohol	0.858	0.500	0.132	2.60	1.52	0.400	
75-09-2	Methylene chloride	8.21	0.500	0.125	28.5	1.74	0.434	
107-05-1	3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269	U
75-15-0	Carbon disulfide	0.177	0.200	0.047	0.551	0.623	0.145	J
76-13-1	Freon-113	0.087	0.200	0.051	0.667	1.53	0.388	J
156-60-5	trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299	U
75-34-3	1,1-Dichloroethane	0.090	0.200	0.057	0.364	0.809	0.230	J
1634-04-4	Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162	U
78-93-3	2-Butanone	2.66	0.500	0.099	7.85	1.47	0.292	
141-78-6	Ethyl Acetate	1.07	0.500	0.297	3.86	1.80	1.07	
67-66-3	Chloroform	0.096	0.200	0.055	0.469	0.977	0.270	J
109-99-9	Tetrahydrofuran	2.95	0.500	0.117	8.70	1.47	0.345	
107-06-2	1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319	U
110-54-3	n-Hexane	0.508	0.200	0.074	1.79	0.705	0.262	
71-43-2	Benzene	0.205	0.200	0.064	0.655	0.639	0.205	

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	Lab Number	: L2416214
Project Name	: BUFFALO COLOR - AREA C	Project Number	:
Lab ID	: L2416214-03	Date Collected	: 03/25/24 15:04
Client ID	: ARREAC-IA-02	Date Received	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	Date Analyzed	: 04/07/24 23:52
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R433045	Instrument ID	: AIRPIANO4
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-82-7	Cyclohexane	0.412	0.200	0.073	1.42	0.688	0.251	
78-87-5	1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292	U
75-27-4	Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462	U
123-91-1	1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323	U
142-82-5	Heptane	0.485	0.200	0.083	1.99	0.820	0.339	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318	U
108-88-3	Toluene	0.468	0.200	0.087	1.76	0.754	0.327	
591-78-6	2-Hexanone	0.275	0.200	0.091	1.13	0.820	0.374	
124-48-1	Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482	U
106-93-4	1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418	U
108-90-7	Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238	U
100-41-4	Ethylbenzene	2.59	0.200	0.058	11.2	0.869	0.250	
179601-23-1	p/m-Xylene	8.66	0.400	0.125	37.6	1.74	0.543	
75-25-2	Bromoform	ND	0.200	0.060	ND	2.07	0.616	U
100-42-5	Styrene	0.273	0.200	0.060	1.16	0.852	0.254	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357	U
95-47-6	o-Xylene	1.76	0.200	0.062	7.64	0.869	0.270	
622-96-8	4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272	U
108-67-8	1,3,5-Trimethylbenzene	0.063	0.200	0.060	0.310	0.983	0.295	J
95-63-6	1,2,4-Trimethylbenzene	0.172	0.200	0.058	0.846	0.983	0.284	J
100-44-7	Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	**Lab Number**	: L2416214
Project Name	: BUFFALO COLOR - AREA C	**Project Number**	:
Lab ID	: L2416214-03	**Date Collected**	: 03/25/24 15:04
Client ID	: ARREAC-IA-02	**Date Received**	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	**Date Analyzed**	: 04/07/24 23:52
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: KJD
Lab File ID	: R433045	**Instrument ID**	: AIRPIANO4
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
106-46-7	1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742	U
91-20-3	Naphthalene	0.095	0.200	0.078	0.498	1.05	0.409	J
87-68-3	Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	Lab Number	: L2416214
Project Name	: BUFFALO COLOR - AREA C	Project Number	:
Lab ID	: L2416214-04	Date Collected	: 03/25/24 15:45
Client ID	: ARREAC-SS-02	Date Received	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	Date Analyzed	: 04/08/24 02:25
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R433049	Instrument ID	: AIRPIANO4
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.558	0.200	0.076	2.76	0.989	0.374	
74-87-3	Chloromethane	0.613	0.200	0.058	1.27	0.413	0.119	
76-14-2	Freon-114	ND	0.200	0.050	ND	1.40	0.352	U
75-01-4	Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149	U
106-99-0	1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137	U
74-83-9	Bromomethane	0.072	0.200	0.055	0.280	0.777	0.212	J
75-00-3	Chloroethane	ND	0.200	0.065	ND	0.528	0.171	U
64-17-5	Ethanol	452	5.00	1.74	852	9.42	3.28	
593-60-2	Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316	U
67-64-1	Acetone	24.9	1.00	0.515	59.1	2.38	1.22	
75-69-4	Trichlorofluoromethane	0.430	0.200	0.079	2.42	1.12	0.442	
67-63-0	Isopropanol	2.27	0.500	0.272	5.58	1.23	0.669	
75-35-4	1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225	U
75-65-0	Tertiary butyl Alcohol	0.879	0.500	0.132	2.66	1.52	0.400	
75-09-2	Methylene chloride	7.96	0.500	0.125	27.7	1.74	0.434	
107-05-1	3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269	U
75-15-0	Carbon disulfide	0.176	0.200	0.047	0.548	0.623	0.145	J
76-13-1	Freon-113	0.081	0.200	0.051	0.621	1.53	0.388	J
156-60-5	trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299	U
75-34-3	1,1-Dichloroethane	0.085	0.200	0.057	0.344	0.809	0.230	J
1634-04-4	Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162	U
78-93-3	2-Butanone	2.78	0.500	0.099	8.20	1.47	0.292	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236	U
141-78-6	Ethyl Acetate	1.09	0.500	0.297	3.93	1.80	1.07	
67-66-3	Chloroform	0.085	0.200	0.055	0.415	0.977	0.270	J
109-99-9	Tetrahydrofuran	3.35	0.500	0.117	9.88	1.47	0.345	

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	Lab Number	: L2416214
Project Name	: BUFFALO COLOR - AREA C	Project Number	:
Lab ID	: L2416214-04	Date Collected	: 03/25/24 15:45
Client ID	: ARREAC-SS-02	Date Received	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	Date Analyzed	: 04/08/24 02:25
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R433049	Instrument ID	: AIRPIANO4
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
107-06-2	1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319	U
110-54-3	n-Hexane	0.534	0.200	0.074	1.88	0.705	0.262	
71-55-6	1,1,1-Trichloroethane	0.272	0.200	0.061	1.48	1.09	0.335	
71-43-2	Benzene	0.220	0.200	0.064	0.703	0.639	0.205	
56-23-5	Carbon tetrachloride	0.082	0.200	0.069	0.516	1.26	0.432	J
110-82-7	Cyclohexane	0.504	0.200	0.073	1.73	0.688	0.251	
78-87-5	1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292	U
75-27-4	Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462	U
123-91-1	1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194	U
79-01-6	Trichloroethene	ND	0.200	0.055	ND	1.07	0.295	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323	U
142-82-5	Heptane	0.530	0.200	0.083	2.17	0.820	0.339	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318	U
108-88-3	Toluene	0.524	0.200	0.087	1.97	0.754	0.327	
591-78-6	2-Hexanone	0.249	0.200	0.091	1.02	0.820	0.374	
124-48-1	Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482	U
106-93-4	1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418	U
127-18-4	Tetrachloroethene	18.9	0.200	0.063	128	1.36	0.425	
108-90-7	Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238	U
100-41-4	Ethylbenzene	2.08	0.200	0.058	9.03	0.869	0.250	
179601-23-1	p/m-Xylene	6.98	0.400	0.125	30.3	1.74	0.543	
75-25-2	Bromoform	ND	0.200	0.060	ND	2.07	0.616	U
100-42-5	Styrene	0.309	0.200	0.060	1.32	0.852	0.254	

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	**Lab Number**	: L2416214
Project Name	: BUFFALO COLOR - AREA C	**Project Number**	:
Lab ID	: L2416214-04	**Date Collected**	: 03/25/24 15:45
Client ID	: ARREAC-SS-02	**Date Received**	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	**Date Analyzed**	: 04/08/24 02:25
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: KJD
Lab File ID	: R433049	**Instrument ID**	: AIRPIANO4
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357	U
95-47-6	o-Xylene	1.41	0.200	0.062	6.12	0.869	0.270	
622-96-8	4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272	U
108-67-8	1,3,5-Trimethylbenzene	0.067	0.200	0.060	0.329	0.983	0.295	J
95-63-6	1,2,4-Trimethylbenzene	0.190	0.200	0.058	0.934	0.983	0.284	J
100-44-7	Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742	U
91-20-3	Naphthalene	0.252	0.200	0.078	1.32	1.05	0.409	
87-68-3	Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	Lab Number	: L2416214
Project Name	: BUFFALO COLOR - AREA C	Project Number	:
Lab ID	: L2416214-05	Date Collected	: 03/25/24 16:06
Client ID	: ARREAC-IA-03	Date Received	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	Date Analyzed	: 04/08/24 00:30
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R433046	Instrument ID	: AIRPIANO4
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.585	0.200	0.076	2.89	0.989	0.374	
74-87-3	Chloromethane	0.572	0.200	0.058	1.18	0.413	0.119	
76-14-2	Freon-114	ND	0.200	0.050	ND	1.40	0.352	U
106-99-0	1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137	U
74-83-9	Bromomethane	0.083	0.200	0.055	0.322	0.777	0.212	J
75-00-3	Chloroethane	ND	0.200	0.065	ND	0.528	0.171	U
64-17-5	Ethanol	435	5.00	1.74	820	9.42	3.28	
593-60-2	Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316	U
67-64-1	Acetone	28.7	1.00	0.515	68.2	2.38	1.22	
75-69-4	Trichlorofluoromethane	0.537	0.200	0.079	3.02	1.12	0.442	
67-63-0	Isopropanol	1.55	0.500	0.272	3.81	1.23	0.669	
75-65-0	Tertiary butyl Alcohol	1.18	0.500	0.132	3.58	1.52	0.400	
75-09-2	Methylene chloride	8.12	0.500	0.125	28.2	1.74	0.434	
107-05-1	3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269	U
75-15-0	Carbon disulfide	0.219	0.200	0.047	0.682	0.623	0.145	
76-13-1	Freon-113	0.086	0.200	0.051	0.659	1.53	0.388	J
156-60-5	trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299	U
75-34-3	1,1-Dichloroethane	0.149	0.200	0.057	0.603	0.809	0.230	J
1634-04-4	Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162	U
78-93-3	2-Butanone	4.08	0.500	0.099	12.0	1.47	0.292	
141-78-6	Ethyl Acetate	1.08	0.500	0.297	3.89	1.80	1.07	
67-66-3	Chloroform	0.102	0.200	0.055	0.498	0.977	0.270	J
109-99-9	Tetrahydrofuran	3.72	0.500	0.117	11.0	1.47	0.345	
107-06-2	1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319	U
110-54-3	n-Hexane	0.596	0.200	0.074	2.10	0.705	0.262	
71-43-2	Benzene	0.227	0.200	0.064	0.725	0.639	0.205	

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	Lab Number	: L2416214
Project Name	: BUFFALO COLOR - AREA C	Project Number	:
Lab ID	: L2416214-05	Date Collected	: 03/25/24 16:06
Client ID	: ARREAC-IA-03	Date Received	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	Date Analyzed	: 04/08/24 00:30
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R433046	Instrument ID	: AIRPIANO4
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-82-7	Cyclohexane	0.558	0.200	0.073	1.92	0.688	0.251	
78-87-5	1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292	U
75-27-4	Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462	U
123-91-1	1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323	U
142-82-5	Heptane	0.586	0.200	0.083	2.40	0.820	0.339	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318	U
108-88-3	Toluene	0.624	0.200	0.087	2.35	0.754	0.327	
591-78-6	2-Hexanone	0.393	0.200	0.091	1.61	0.820	0.374	
124-48-1	Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482	U
106-93-4	1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418	U
108-90-7	Chlorobenzene	0.058	0.200	0.052	0.267	0.921	0.238	J
100-41-4	Ethylbenzene	2.55	0.200	0.058	11.1	0.869	0.250	
179601-23-1	p/m-Xylene	8.22	0.400	0.125	35.7	1.74	0.543	
75-25-2	Bromoform	ND	0.200	0.060	ND	2.07	0.616	U
100-42-5	Styrene	0.309	0.200	0.060	1.32	0.852	0.254	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357	U
95-47-6	o-Xylene	1.76	0.200	0.062	7.64	0.869	0.270	
622-96-8	4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272	U
108-67-8	1,3,5-Trimethylbenzene	0.085	0.200	0.060	0.418	0.983	0.295	J
95-63-6	1,2,4-Trimethylbenzene	0.187	0.200	0.058	0.919	0.983	0.284	J
100-44-7	Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	**Lab Number**	: L2416214
Project Name	: BUFFALO COLOR - AREA C	**Project Number**	:
Lab ID	: L2416214-05	**Date Collected**	: 03/25/24 16:06
Client ID	: ARREAC-IA-03	**Date Received**	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	**Date Analyzed**	: 04/08/24 00:30
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: KJD
Lab File ID	: R433046	**Instrument ID**	: AIRPIANO4
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
106-46-7	1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742	U
91-20-3	Naphthalene	ND	0.200	0.078	ND	1.05	0.409	U
87-68-3	Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	Lab Number	: L2416214
Project Name	: BUFFALO COLOR - AREA C	Project Number	:
Lab ID	: L2416214-06	Date Collected	: 03/25/24 15:58
Client ID	: ARREAC-SS-03	Date Received	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	Date Analyzed	: 04/08/24 03:03
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R433050	Instrument ID	: AIRPIANO4
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.562	0.200	0.076	2.78	0.989	0.374	
74-87-3	Chloromethane	0.809	0.200	0.058	1.67	0.413	0.119	
76-14-2	Freon-114	ND	0.200	0.050	ND	1.40	0.352	U
75-01-4	Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149	U
106-99-0	1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137	U
74-83-9	Bromomethane	0.133	0.200	0.055	0.516	0.777	0.212	J
75-00-3	Chloroethane	0.171	0.200	0.065	0.451	0.528	0.171	J
64-17-5	Ethanol	551	5.00	1.74	1040E	9.42	3.28	E
593-60-2	Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316	U
67-64-1	Acetone	29.2	1.00	0.515	69.4	2.38	1.22	
75-69-4	Trichlorofluoromethane	0.513	0.200	0.079	2.88	1.12	0.442	
67-63-0	Isopropanol	2.11	0.500	0.272	5.19	1.23	0.669	
75-35-4	1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	0.132	ND	1.52	0.400	U
75-09-2	Methylene chloride	7.80	0.500	0.125	27.1	1.74	0.434	
107-05-1	3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269	U
75-15-0	Carbon disulfide	0.222	0.200	0.047	0.691	0.623	0.145	
76-13-1	Freon-113	0.084	0.200	0.051	0.644	1.53	0.388	J
156-60-5	trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299	U
75-34-3	1,1-Dichloroethane	0.158	0.200	0.057	0.639	0.809	0.230	J
1634-04-4	Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162	U
78-93-3	2-Butanone	3.44	0.500	0.099	10.1	1.47	0.292	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236	U
141-78-6	Ethyl Acetate	1.19	0.500	0.297	4.29	1.80	1.07	
67-66-3	Chloroform	0.105	0.200	0.055	0.513	0.977	0.270	J
109-99-9	Tetrahydrofuran	3.29	0.500	0.117	9.70	1.47	0.345	

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	Lab Number	: L2416214
Project Name	: BUFFALO COLOR - AREA C	Project Number	:
Lab ID	: L2416214-06	Date Collected	: 03/25/24 15:58
Client ID	: ARREAC-SS-03	Date Received	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	Date Analyzed	: 04/08/24 03:03
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R433050	Instrument ID	: AIRPIANO4
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
107-06-2	1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319	U
110-54-3	n-Hexane	0.603	0.200	0.074	2.13	0.705	0.262	
71-55-6	1,1,1-Trichloroethane	0.405	0.200	0.061	2.21	1.09	0.335	
71-43-2	Benzene	0.233	0.200	0.064	0.744	0.639	0.205	
56-23-5	Carbon tetrachloride	0.081	0.200	0.069	0.510	1.26	0.432	J
110-82-7	Cyclohexane	0.524	0.200	0.073	1.80	0.688	0.251	
78-87-5	1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292	U
75-27-4	Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462	U
123-91-1	1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194	U
79-01-6	Trichloroethene	ND	0.200	0.055	ND	1.07	0.295	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323	U
142-82-5	Heptane	0.581	0.200	0.083	2.38	0.820	0.339	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318	U
108-88-3	Toluene	0.589	0.200	0.087	2.22	0.754	0.327	
591-78-6	2-Hexanone	0.345	0.200	0.091	1.41	0.820	0.374	
124-48-1	Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482	U
106-93-4	1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418	U
127-18-4	Tetrachloroethene	20.8	0.200	0.063	141	1.36	0.425	
108-90-7	Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238	U
100-41-4	Ethylbenzene	2.40	0.200	0.058	10.4	0.869	0.250	
179601-23-1	p/m-Xylene	7.97	0.400	0.125	34.6	1.74	0.543	
75-25-2	Bromoform	ND	0.200	0.060	ND	2.07	0.616	U
100-42-5	Styrene	0.284	0.200	0.060	1.21	0.852	0.254	

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	**Lab Number**	: L2416214
Project Name	: BUFFALO COLOR - AREA C	**Project Number**	:
Lab ID	: L2416214-06	**Date Collected**	: 03/25/24 15:58
Client ID	: ARREAC-SS-03	**Date Received**	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	**Date Analyzed**	: 04/08/24 03:03
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: KJD
Lab File ID	: R433050	**Instrument ID**	: AIRPIANO4
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357	U
95-47-6	o-Xylene	1.66	0.200	0.062	7.21	0.869	0.270	
622-96-8	4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272	U
108-67-8	1,3,5-Trimethylbenzene	0.079	0.200	0.060	0.388	0.983	0.295	J
95-63-6	1,2,4-Trimethylbenzene	0.218	0.200	0.058	1.07	0.983	0.284	
100-44-7	Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742	U
91-20-3	Naphthalene	0.088	0.200	0.078	0.461	1.05	0.409	J
87-68-3	Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	**Lab Number**	: L2416214
Project Name	: BUFFALO COLOR - AREA C	**Project Number**	:
Lab ID	: L2416214-06D	**Date Collected**	: 03/25/24 15:58
Client ID	: ARREAC-SS-03	**Date Received**	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	**Date Analyzed**	: 04/10/24 04:37
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 2
Analytical Method	: 48,TO-15	**Analyst**	: BJB
Lab File ID	: R1739876	**Instrument ID**	: AIRLAB17
Sample Amount	: 125 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
64-17-5	Ethanol	432	10.0	3.48	814	18.8	6.56	

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	Lab Number	: L2416214
Project Name	: BUFFALO COLOR - AREA C	Project Number	:
Lab ID	: L2416214-07	Date Collected	: 03/25/24 15:15
Client ID	: ARREAC-IA-04	Date Received	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	Date Analyzed	: 04/08/24 01:08
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R433047	Instrument ID	: AIRPIANO4
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.579	0.200	0.076	2.86	0.989	0.374	
74-87-3	Chloromethane	0.584	0.200	0.058	1.21	0.413	0.119	
76-14-2	Freon-114	ND	0.200	0.050	ND	1.40	0.352	U
106-99-0	1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137	U
74-83-9	Bromomethane	ND	0.200	0.055	ND	0.777	0.212	U
75-00-3	Chloroethane	ND	0.200	0.065	ND	0.528	0.171	U
64-17-5	Ethanol	485	5.00	1.74	914	9.42	3.28	
593-60-2	Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316	U
67-64-1	Acetone	22.9	1.00	0.515	54.4	2.38	1.22	
75-69-4	Trichlorofluoromethane	0.469	0.200	0.079	2.64	1.12	0.442	
67-63-0	Isopropanol	1.85	0.500	0.272	4.55	1.23	0.669	
75-65-0	Tertiary butyl Alcohol	1.01	0.500	0.132	3.06	1.52	0.400	
75-09-2	Methylene chloride	6.69	0.500	0.125	23.2	1.74	0.434	
107-05-1	3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269	U
75-15-0	Carbon disulfide	0.195	0.200	0.047	0.607	0.623	0.145	J
76-13-1	Freon-113	0.085	0.200	0.051	0.651	1.53	0.388	J
156-60-5	trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299	U
75-34-3	1,1-Dichloroethane	0.097	0.200	0.057	0.393	0.809	0.230	J
1634-04-4	Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162	U
78-93-3	2-Butanone	2.83	0.500	0.099	8.35	1.47	0.292	
141-78-6	Ethyl Acetate	1.09	0.500	0.297	3.93	1.80	1.07	
67-66-3	Chloroform	0.087	0.200	0.055	0.425	0.977	0.270	J
109-99-9	Tetrahydrofuran	3.17	0.500	0.117	9.35	1.47	0.345	
107-06-2	1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319	U
110-54-3	n-Hexane	0.629	0.200	0.074	2.22	0.705	0.262	
71-43-2	Benzene	0.218	0.200	0.064	0.696	0.639	0.205	

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	Lab Number	: L2416214
Project Name	: BUFFALO COLOR - AREA C	Project Number	:
Lab ID	: L2416214-07	Date Collected	: 03/25/24 15:15
Client ID	: ARREAC-IA-04	Date Received	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	Date Analyzed	: 04/08/24 01:08
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R433047	Instrument ID	: AIRPIANO4
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-82-7	Cyclohexane	0.514	0.200	0.073	1.77	0.688	0.251	
78-87-5	1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292	U
75-27-4	Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462	U
123-91-1	1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323	U
142-82-5	Heptane	0.610	0.200	0.083	2.50	0.820	0.339	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318	U
108-88-3	Toluene	0.513	0.200	0.087	1.93	0.754	0.327	
591-78-6	2-Hexanone	0.229	0.200	0.091	0.938	0.820	0.374	
124-48-1	Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482	U
106-93-4	1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418	U
108-90-7	Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238	U
100-41-4	Ethylbenzene	2.01	0.200	0.058	8.73	0.869	0.250	
179601-23-1	p/m-Xylene	6.61	0.400	0.125	28.7	1.74	0.543	
75-25-2	Bromoform	ND	0.200	0.060	ND	2.07	0.616	U
100-42-5	Styrene	0.314	0.200	0.060	1.34	0.852	0.254	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357	U
95-47-6	o-Xylene	1.39	0.200	0.062	6.04	0.869	0.270	
622-96-8	4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272	U
108-67-8	1,3,5-Trimethylbenzene	0.065	0.200	0.060	0.320	0.983	0.295	J
95-63-6	1,2,4-Trimethylbenzene	0.186	0.200	0.058	0.914	0.983	0.284	J
100-44-7	Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	**Lab Number**	: L2416214
Project Name	: BUFFALO COLOR - AREA C	**Project Number**	:
Lab ID	: L2416214-07	**Date Collected**	: 03/25/24 15:15
Client ID	: ARREAC-IA-04	**Date Received**	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	**Date Analyzed**	: 04/08/24 01:08
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: KJD
Lab File ID	: R433047	**Instrument ID**	: AIRPIANO4
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
106-46-7	1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742	U
91-20-3	Naphthalene	ND	0.200	0.078	ND	1.05	0.409	U
87-68-3	Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	Lab Number	: L2416214
Project Name	: BUFFALO COLOR - AREA C	Project Number	:
Lab ID	: L2416214-08	Date Collected	: 03/25/24 15:36
Client ID	: ARREAC-SS-04	Date Received	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	Date Analyzed	: 04/08/24 03:42
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R433051	Instrument ID	: AIRPIANO4
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.571	0.200	0.076	2.82	0.989	0.374	
74-87-3	Chloromethane	0.592	0.200	0.058	1.22	0.413	0.119	
76-14-2	Freon-114	ND	0.200	0.050	ND	1.40	0.352	U
75-01-4	Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149	U
106-99-0	1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137	U
74-83-9	Bromomethane	0.088	0.200	0.055	0.342	0.777	0.212	J
75-00-3	Chloroethane	ND	0.200	0.065	ND	0.528	0.171	U
64-17-5	Ethanol	509	5.00	1.74	959E	9.42	3.28	E
593-60-2	Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316	U
67-64-1	Acetone	24.9	1.00	0.515	59.1	2.38	1.22	
75-69-4	Trichlorofluoromethane	0.471	0.200	0.079	2.65	1.12	0.442	
67-63-0	Isopropanol	1.64	0.500	0.272	4.03	1.23	0.669	
75-35-4	1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225	U
75-65-0	Tertiary butyl Alcohol	0.968	0.500	0.132	2.93	1.52	0.400	
75-09-2	Methylene chloride	7.07	0.500	0.125	24.6	1.74	0.434	
107-05-1	3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269	U
75-15-0	Carbon disulfide	0.191	0.200	0.047	0.595	0.623	0.145	J
76-13-1	Freon-113	0.084	0.200	0.051	0.644	1.53	0.388	J
156-60-5	trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299	U
75-34-3	1,1-Dichloroethane	0.095	0.200	0.057	0.385	0.809	0.230	J
1634-04-4	Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162	U
78-93-3	2-Butanone	2.90	0.500	0.099	8.55	1.47	0.292	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236	U
141-78-6	Ethyl Acetate	1.11	0.500	0.297	4.00	1.80	1.07	
67-66-3	Chloroform	0.085	0.200	0.055	0.415	0.977	0.270	J
109-99-9	Tetrahydrofuran	3.00	0.500	0.117	8.85	1.47	0.345	

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	Lab Number	: L2416214
Project Name	: BUFFALO COLOR - AREA C	Project Number	:
Lab ID	: L2416214-08	Date Collected	: 03/25/24 15:36
Client ID	: ARREAC-SS-04	Date Received	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	Date Analyzed	: 04/08/24 03:42
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R433051	Instrument ID	: AIRPIANO4
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
107-06-2	1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319	U
110-54-3	n-Hexane	0.635	0.200	0.074	2.24	0.705	0.262	
71-55-6	1,1,1-Trichloroethane	0.294	0.200	0.061	1.60	1.09	0.335	
71-43-2	Benzene	0.219	0.200	0.064	0.700	0.639	0.205	
56-23-5	Carbon tetrachloride	0.079	0.200	0.069	0.497	1.26	0.432	J
110-82-7	Cyclohexane	0.557	0.200	0.073	1.92	0.688	0.251	
78-87-5	1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292	U
75-27-4	Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462	U
123-91-1	1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194	U
79-01-6	Trichloroethene	ND	0.200	0.055	ND	1.07	0.295	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323	U
142-82-5	Heptane	0.615	0.200	0.083	2.52	0.820	0.339	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318	U
108-88-3	Toluene	0.528	0.200	0.087	1.99	0.754	0.327	
591-78-6	2-Hexanone	0.251	0.200	0.091	1.03	0.820	0.374	
124-48-1	Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482	U
106-93-4	1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418	U
127-18-4	Tetrachloroethene	20.4	0.200	0.063	138	1.36	0.425	
108-90-7	Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238	U
100-41-4	Ethylbenzene	2.07	0.200	0.058	8.99	0.869	0.250	
179601-23-1	p/m-Xylene	6.80	0.400	0.125	29.5	1.74	0.543	
75-25-2	Bromoform	ND	0.200	0.060	ND	2.07	0.616	U
100-42-5	Styrene	0.261	0.200	0.060	1.11	0.852	0.254	

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	**Lab Number**	: L2416214
Project Name	: BUFFALO COLOR - AREA C	**Project Number**	:
Lab ID	: L2416214-08	**Date Collected**	: 03/25/24 15:36
Client ID	: ARREAC-SS-04	**Date Received**	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	**Date Analyzed**	: 04/08/24 03:42
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: KJD
Lab File ID	: R433051	**Instrument ID**	: AIRPIANO4
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357	U
95-47-6	o-Xylene	1.43	0.200	0.062	6.21	0.869	0.270	
622-96-8	4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272	U
108-67-8	1,3,5-Trimethylbenzene	0.067	0.200	0.060	0.329	0.983	0.295	J
95-63-6	1,2,4-Trimethylbenzene	0.186	0.200	0.058	0.914	0.983	0.284	J
100-44-7	Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742	U
91-20-3	Naphthalene	ND	0.200	0.078	ND	1.05	0.409	U
87-68-3	Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	**Lab Number**	: L2416214
Project Name	: BUFFALO COLOR - AREA C	**Project Number**	:
Lab ID	: L2416214-08D	**Date Collected**	: 03/25/24 15:36
Client ID	: ARREAC-SS-04	**Date Received**	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	**Date Analyzed**	: 04/10/24 05:14
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 2
Analytical Method	: 48,TO-15	**Analyst**	: BJB
Lab File ID	: R1739877	**Instrument ID**	: AIRLAB17
Sample Amount	: 125 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
64-17-5	Ethanol	422	10.0	3.48	795	18.8	6.56	

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	Lab Number	: L2416214
Project Name	: BUFFALO COLOR - AREA C	Project Number	:
Lab ID	: L2416214-09	Date Collected	: 03/25/24 15:50
Client ID	: ARREAC-OA	Date Received	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	Date Analyzed	: 04/07/24 22:35
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R433043	Instrument ID	: AIRPIANO4
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.568	0.200	0.076	2.81	0.989	0.374	
74-87-3	Chloromethane	0.645	0.200	0.058	1.33	0.413	0.119	
76-14-2	Freon-114	ND	0.200	0.050	ND	1.40	0.352	U
106-99-0	1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137	U
74-83-9	Bromomethane	ND	0.200	0.055	ND	0.777	0.212	U
75-00-3	Chloroethane	ND	0.200	0.065	ND	0.528	0.171	U
64-17-5	Ethanol	12.0	5.00	1.74	22.6	9.42	3.28	
593-60-2	Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316	U
67-64-1	Acetone	4.63	1.00	0.515	11.0	2.38	1.22	
75-69-4	Trichlorofluoromethane	0.249	0.200	0.079	1.40	1.12	0.442	
67-63-0	Isopropanol	0.344	0.500	0.272	0.846	1.23	0.669	J
75-65-0	Tertiary butyl Alcohol	ND	0.500	0.132	ND	1.52	0.400	U
75-09-2	Methylene chloride	0.513	0.500	0.125	1.78	1.74	0.434	
107-05-1	3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269	U
75-15-0	Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145	U
76-13-1	Freon-113	0.084	0.200	0.051	0.644	1.53	0.388	J
156-60-5	trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299	U
75-34-3	1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230	U
1634-04-4	Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162	U
78-93-3	2-Butanone	0.277	0.500	0.099	0.817	1.47	0.292	J
141-78-6	Ethyl Acetate	ND	0.500	0.297	ND	1.80	1.07	U
67-66-3	Chloroform	ND	0.200	0.055	ND	0.977	0.270	U
109-99-9	Tetrahydrofuran	0.250	0.500	0.117	0.737	1.47	0.345	J
107-06-2	1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319	U
110-54-3	n-Hexane	0.133	0.200	0.074	0.469	0.705	0.262	J
71-43-2	Benzene	0.143	0.200	0.064	0.457	0.639	0.205	J

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	Lab Number	: L2416214
Project Name	: BUFFALO COLOR - AREA C	Project Number	:
Lab ID	: L2416214-09	Date Collected	: 03/25/24 15:50
Client ID	: ARREAC-OA	Date Received	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	Date Analyzed	: 04/07/24 22:35
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R433043	Instrument ID	: AIRPIANO4
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-82-7	Cyclohexane	0.323	0.200	0.073	1.11	0.688	0.251	
78-87-5	1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292	U
75-27-4	Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462	U
123-91-1	1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323	U
142-82-5	Heptane	0.147	0.200	0.083	0.602	0.820	0.339	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318	U
108-88-3	Toluene	0.163	0.200	0.087	0.614	0.754	0.327	J
591-78-6	2-Hexanone	ND	0.200	0.091	ND	0.820	0.374	U
124-48-1	Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482	U
106-93-4	1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418	U
108-90-7	Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238	U
100-41-4	Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250	U
179601-23-1	p/m-Xylene	0.165	0.400	0.125	0.717	1.74	0.543	J
75-25-2	Bromoform	ND	0.200	0.060	ND	2.07	0.616	U
100-42-5	Styrene	0.552	0.200	0.060	2.35	0.852	0.254	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357	U
95-47-6	o-Xylene	ND	0.200	0.062	ND	0.869	0.270	U
622-96-8	4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284	U
100-44-7	Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	**Lab Number**	: L2416214
Project Name	: BUFFALO COLOR - AREA C	**Project Number**	:
Lab ID	: L2416214-09	**Date Collected**	: 03/25/24 15:50
Client ID	: ARREAC-OA	**Date Received**	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	**Date Analyzed**	: 04/07/24 22:35
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: KJD
Lab File ID	: R433043	**Instrument ID**	: AIRPIANO4
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
106-46-7	1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742	U
91-20-3	Naphthalene	ND	0.200	0.078	ND	1.05	0.409	U
87-68-3	Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	Lab Number	: L2416214
Project Name	: BUFFALO COLOR - AREA C	Project Number	:
Lab ID	: WG1905765-4	Date Collected	: NA
Client ID	: WG1905765-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 04/07/24 15:17
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R433034	Instrument ID	: AIRPIANO4
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	ND	0.200	0.076	ND	0.989	0.374	U
74-87-3	Chloromethane	ND	0.200	0.058	ND	0.413	0.119	U
76-14-2	Freon-114	ND	0.200	0.050	ND	1.40	0.352	U
75-01-4	Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149	U
106-99-0	1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137	U
74-83-9	Bromomethane	ND	0.200	0.055	ND	0.777	0.212	U
75-00-3	Chloroethane	ND	0.200	0.065	ND	0.528	0.171	U
64-17-5	Ethanol	ND	5.00	1.74	ND	9.42	3.28	U
593-60-2	Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316	U
67-64-1	Acetone	ND	1.00	0.515	ND	2.38	1.22	U
75-69-4	Trichlorofluoromethane	ND	0.200	0.079	ND	1.12	0.442	U
67-63-0	Isopropanol	ND	0.500	0.272	ND	1.23	0.669	U
75-35-4	1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	0.132	ND	1.52	0.400	U
75-09-2	Methylene chloride	ND	0.500	0.125	ND	1.74	0.434	U
107-05-1	3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269	U
75-15-0	Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145	U
76-13-1	Freon-113	ND	0.200	0.051	ND	1.53	0.388	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299	U
75-34-3	1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230	U
1634-04-4	Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162	U
78-93-3	2-Butanone	ND	0.500	0.099	ND	1.47	0.292	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236	U
141-78-6	Ethyl Acetate	ND	0.500	0.297	ND	1.80	1.07	U
67-66-3	Chloroform	ND	0.200	0.055	ND	0.977	0.270	U
109-99-9	Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	Lab Number	: L2416214
Project Name	: BUFFALO COLOR - AREA C	Project Number	:
Lab ID	: WG1905765-4	Date Collected	: NA
Client ID	: WG1905765-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 04/07/24 15:17
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R433034	Instrument ID	: AIRPIANO4
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
107-06-2	1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319	U
110-54-3	n-Hexane	ND	0.200	0.074	ND	0.705	0.262	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335	U
71-43-2	Benzene	ND	0.200	0.064	ND	0.639	0.205	U
56-23-5	Carbon tetrachloride	ND	0.200	0.069	ND	1.26	0.432	U
110-82-7	Cyclohexane	ND	0.200	0.073	ND	0.688	0.251	U
78-87-5	1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292	U
75-27-4	Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462	U
123-91-1	1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194	U
79-01-6	Trichloroethene	ND	0.200	0.055	ND	1.07	0.295	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323	U
142-82-5	Heptane	ND	0.200	0.083	ND	0.820	0.339	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318	U
108-88-3	Toluene	ND	0.200	0.087	ND	0.754	0.327	U
591-78-6	2-Hexanone	ND	0.200	0.091	ND	0.820	0.374	U
124-48-1	Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482	U
106-93-4	1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418	U
127-18-4	Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425	U
108-90-7	Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238	U
100-41-4	Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250	U
179601-23-1	p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543	U
75-25-2	Bromoform	ND	0.200	0.060	ND	2.07	0.616	U
100-42-5	Styrene	ND	0.200	0.060	ND	0.852	0.254	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	**Lab Number**	: L2416214
Project Name	: BUFFALO COLOR - AREA C	**Project Number**	:
Lab ID	: WG1905765-4	**Date Collected**	: NA
Client ID	: WG1905765-4BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 04/07/24 15:17
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: KJD
Lab File ID	: R433034	**Instrument ID**	: AIRPIANO4
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357	U
95-47-6	o-Xylene	ND	0.200	0.062	ND	0.869	0.270	U
622-96-8	4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284	U
100-44-7	Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742	U
91-20-3	Naphthalene	ND	0.200	0.078	ND	1.05	0.409	U
87-68-3	Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	Lab Number	: L2416214
Project Name	: BUFFALO COLOR - AREA C	Project Number	:
Lab ID	: WG1906156-4	Date Collected	: NA
Client ID	: WG1906156-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 04/08/24 19:54
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: JMB
Lab File ID	: R1739840	Instrument ID	: AIRLAB17
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	ND	0.200	0.076	ND	0.989	0.374	U
74-87-3	Chloromethane	ND	0.200	0.058	ND	0.413	0.119	U
76-14-2	Freon-114	ND	0.200	0.050	ND	1.40	0.352	U
75-01-4	Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149	U
106-99-0	1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137	U
74-83-9	Bromomethane	ND	0.200	0.055	ND	0.777	0.212	U
75-00-3	Chloroethane	ND	0.200	0.065	ND	0.528	0.171	U
64-17-5	Ethanol	ND	5.00	1.74	ND	9.42	3.28	U
593-60-2	Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316	U
67-64-1	Acetone	ND	1.00	0.515	ND	2.38	1.22	U
75-69-4	Trichlorofluoromethane	ND	0.200	0.079	ND	1.12	0.442	U
67-63-0	Isopropanol	ND	0.500	0.272	ND	1.23	0.669	U
75-35-4	1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	0.132	ND	1.52	0.400	U
75-09-2	Methylene chloride	ND	0.500	0.125	ND	1.74	0.434	U
107-05-1	3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269	U
75-15-0	Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145	U
76-13-1	Freon-113	ND	0.200	0.051	ND	1.53	0.388	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299	U
75-34-3	1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230	U
1634-04-4	Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162	U
78-93-3	2-Butanone	ND	0.500	0.099	ND	1.47	0.292	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236	U
141-78-6	Ethyl Acetate	ND	0.500	0.297	ND	1.80	1.07	U
67-66-3	Chloroform	ND	0.200	0.055	ND	0.977	0.270	U
109-99-9	Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	Lab Number	: L2416214
Project Name	: BUFFALO COLOR - AREA C	Project Number	:
Lab ID	: WG1906156-4	Date Collected	: NA
Client ID	: WG1906156-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 04/08/24 19:54
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: JMB
Lab File ID	: R1739840	Instrument ID	: AIRLAB17
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
107-06-2	1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319	U
110-54-3	n-Hexane	ND	0.200	0.074	ND	0.705	0.262	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335	U
71-43-2	Benzene	ND	0.200	0.064	ND	0.639	0.205	U
56-23-5	Carbon tetrachloride	ND	0.200	0.069	ND	1.26	0.432	U
110-82-7	Cyclohexane	ND	0.200	0.073	ND	0.688	0.251	U
78-87-5	1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292	U
75-27-4	Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462	U
123-91-1	1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194	U
79-01-6	Trichloroethene	ND	0.200	0.055	ND	1.07	0.295	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323	U
142-82-5	Heptane	ND	0.200	0.083	ND	0.820	0.339	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318	U
108-88-3	Toluene	ND	0.200	0.087	ND	0.754	0.327	U
591-78-6	2-Hexanone	ND	0.200	0.091	ND	0.820	0.374	U
124-48-1	Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482	U
106-93-4	1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418	U
127-18-4	Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425	U
108-90-7	Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238	U
100-41-4	Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250	U
179601-23-1	p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543	U
75-25-2	Bromoform	ND	0.200	0.060	ND	2.07	0.616	U
100-42-5	Styrene	ND	0.200	0.060	ND	0.852	0.254	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	**Lab Number**	: L2416214
Project Name	: BUFFALO COLOR - AREA C	**Project Number**	:
Lab ID	: WG1906156-4	**Date Collected**	: NA
Client ID	: WG1906156-4BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 04/08/24 19:54
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: JMB
Lab File ID	: R1739840	**Instrument ID**	: AIRLAB17
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357	U
95-47-6	o-Xylene	ND	0.200	0.062	ND	0.869	0.270	U
622-96-8	4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284	U
100-44-7	Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742	U
91-20-3	Naphthalene	ND	0.200	0.078	ND	1.05	0.409	U
87-68-3	Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	Lab Number	: L2416214
Project Name	: BUFFALO COLOR - AREA C	Project Number	:
Lab ID	: WG1906606-4	Date Collected	: NA
Client ID	: WG1906606-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 04/09/24 20:42
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R1739866	Instrument ID	: AIRLAB17
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	ND	0.200	0.076	ND	0.989	0.374	U
74-87-3	Chloromethane	ND	0.200	0.058	ND	0.413	0.119	U
76-14-2	Freon-114	ND	0.200	0.050	ND	1.40	0.352	U
75-01-4	Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149	U
106-99-0	1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137	U
74-83-9	Bromomethane	ND	0.200	0.055	ND	0.777	0.212	U
75-00-3	Chloroethane	ND	0.200	0.065	ND	0.528	0.171	U
64-17-5	Ethanol	ND	5.00	1.74	ND	9.42	3.28	U
593-60-2	Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316	U
67-64-1	Acetone	ND	1.00	0.515	ND	2.38	1.22	U
75-69-4	Trichlorofluoromethane	ND	0.200	0.079	ND	1.12	0.442	U
67-63-0	Isopropanol	ND	0.500	0.272	ND	1.23	0.669	U
75-35-4	1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	0.132	ND	1.52	0.400	U
75-09-2	Methylene chloride	ND	0.500	0.125	ND	1.74	0.434	U
107-05-1	3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269	U
75-15-0	Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145	U
76-13-1	Freon-113	ND	0.200	0.051	ND	1.53	0.388	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299	U
75-34-3	1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230	U
1634-04-4	Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162	U
78-93-3	2-Butanone	ND	0.500	0.099	ND	1.47	0.292	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236	U
141-78-6	Ethyl Acetate	ND	0.500	0.297	ND	1.80	1.07	U
67-66-3	Chloroform	ND	0.200	0.055	ND	0.977	0.270	U
109-99-9	Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	Lab Number	: L2416214
Project Name	: BUFFALO COLOR - AREA C	Project Number	:
Lab ID	: WG1906606-4	Date Collected	: NA
Client ID	: WG1906606-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 04/09/24 20:42
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R1739866	Instrument ID	: AIRLAB17
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
107-06-2	1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319	U
110-54-3	n-Hexane	ND	0.200	0.074	ND	0.705	0.262	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335	U
71-43-2	Benzene	ND	0.200	0.064	ND	0.639	0.205	U
56-23-5	Carbon tetrachloride	ND	0.200	0.069	ND	1.26	0.432	U
110-82-7	Cyclohexane	ND	0.200	0.073	ND	0.688	0.251	U
78-87-5	1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292	U
75-27-4	Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462	U
123-91-1	1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194	U
79-01-6	Trichloroethene	ND	0.200	0.055	ND	1.07	0.295	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323	U
142-82-5	Heptane	ND	0.200	0.083	ND	0.820	0.339	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318	U
108-88-3	Toluene	ND	0.200	0.087	ND	0.754	0.327	U
591-78-6	2-Hexanone	ND	0.200	0.091	ND	0.820	0.374	U
124-48-1	Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482	U
106-93-4	1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418	U
127-18-4	Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425	U
108-90-7	Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238	U
100-41-4	Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250	U
179601-23-1	p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543	U
75-25-2	Bromoform	ND	0.200	0.060	ND	2.07	0.616	U
100-42-5	Styrene	ND	0.200	0.060	ND	0.852	0.254	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Inventum Engineering	**Lab Number**	: L2416214
Project Name	: BUFFALO COLOR - AREA C	**Project Number**	:
Lab ID	: WG1906606-4	**Date Collected**	: NA
Client ID	: WG1906606-4BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 04/09/24 20:42
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: BJB
Lab File ID	: R1739866	**Instrument ID**	: AIRLAB17
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357	U
95-47-6	o-Xylene	ND	0.200	0.062	ND	0.869	0.270	U
622-96-8	4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284	U
100-44-7	Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742	U
91-20-3	Naphthalene	ND	0.200	0.078	ND	1.05	0.409	U
87-68-3	Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647	U

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Inventum Engineering**	**Lab Number**	**: L2416214**
Project Name	**: BUFFALO COLOR - AREA C**	**Project Number**	**:**
Instrument ID	**: AIRPIANO4**	**Ical Ref**	**: ICAL21017**
Calibration dates	**: 04/05/24 21:24 04/06/24 01:59**		

Calibration Files

0.2 =r432997.D 0.5 =r432998.D 1.0 =r432999.D 5.0 =r433000.D 10 =r433001.D 20 =r433002.D

50 =r433003.D 100 =r433004.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------									
2)		chlorodifluoromethane	1.227	1.048	0.899	0.861	0.826	0.740	0.687	0.615	0.863	23.06
3)		propylene		0.702	0.608	0.545	0.486	0.451	0.422	0.364	0.511	22.69
4)		propane		0.697	0.689	0.593	0.601	0.569	0.548	0.493	0.598	12.32
5)		dichlorodifluoromethane	1.037	1.091	1.105	1.120	1.063	0.943	0.826	0.646	0.979	17.03
6)	C	chloromethane	0.395	0.401	0.418	0.424	0.410	0.376	0.358	0.301	0.385	10.52
7)		Freon-114	0.950	0.998	1.019	1.087	1.019	0.897	0.763	0.570	0.913	18.60
8)	C	methanol			0.460	0.207	0.203	0.184	0.176	0.152	0.230	49.53#
9)	C	vinyl chloride	0.394	0.429	0.453	0.492	0.487	0.447	0.428	0.377	0.439	9.22
10)	C	1,3-butadiene	0.326	0.355	0.377	0.428	0.422	0.392	0.370	0.318	0.374	10.79
11)		butane	0.703	0.703	0.707	0.716	0.698	0.628	0.576	0.485	0.652	12.79
12)	C	acetaldehyde		0.236	0.243	0.202	0.208	0.194	0.173	0.133	0.198	18.84
13)	C	bromomethane	0.337	0.361	0.376	0.404	0.388	0.351	0.322	0.276	0.352	11.56
14)	C	chloroethane	0.199	0.221	0.225	0.241	0.242	0.223	0.212	0.192	0.219	8.13
15)		ethanol			0.291	0.304	0.269	0.260	0.232	0.186	0.257	16.75
16)		dichlorofluoromethane	1.137	0.921	0.870	0.859	0.867	0.744	0.702	0.581	0.835	19.83
17)	C	vinyl bromide	0.333	0.357	0.374	0.412	0.405	0.366	0.334	0.274	0.357	12.39
18)	C	acrolein		0.209	0.204	0.231	0.225	0.218	0.209	0.189	0.212	6.68
19)		acetone	0.566	0.570	0.579	0.506	0.492	0.442	0.381	0.294	0.479	21.20
20)	C	acetonitrile	0.400	0.386	0.391	0.384	0.374	0.348	0.324	0.280	0.361	11.42
21)		trichlorofluoromethane	0.613	0.645	0.679	1.098	0.681	0.603	0.520	0.397	0.655	30.92#
22)		isopropyl alcohol	0.773	1.081	1.046	1.164	0.706	1.014	0.901	0.574	0.907	22.70
23)	C	acrylonitrile	0.370	0.354	0.402	0.485	0.508	0.489	0.497	0.483	0.448	13.95
24)		pentane	1.037	1.085	1.177	1.303	1.495	1.132	1.137	0.987	1.169	13.87
25)		ethyl ether	0.735	0.857	0.826	1.165	1.193	1.138	1.070	0.996	0.997	17.35
26)	C	1,1-dichloroethene	0.702	0.745	0.774	0.870	0.858	0.772	0.713	0.595	0.754	11.71
27)		tertiary butyl alcohol		0.982	0.987	1.187	1.150	1.132	1.079	0.932	1.064	9.20
28)	C	methylene chloride		0.788	0.799	0.766	0.752	0.687	0.649	0.569	0.716	11.81
29)	C	3-chloropropene	0.706	0.784	0.821	0.903	0.903	0.814	0.751	0.654	0.792	11.12
30)	C	carbon disulfide	1.700	1.795	1.876	1.980	1.922	1.726	1.544	1.226	1.721	14.13
31)		Freon 113	1.091	1.090	1.119	1.163	1.120	0.979	0.871	0.694	1.016	15.79
32)		trans-1,2-dichloroethene	0.710	0.754	0.783	0.862	0.853	0.779	0.727	0.633	0.763	9.87
33)	C	1,1-dichloroethane	1.004	1.043	1.060	1.145	1.112	0.986	0.915	0.798	1.008	11.06
34)	C	MTBE	1.349	1.429	1.530	1.766	1.770	1.593	1.452	1.194	1.510	13.14
35)	C	vinyl acetate			1.145	1.393	1.417	1.230	1.148	0.988	1.220	13.40
36)	C	2-butanone		1.480	1.645	1.575	1.558	1.386	1.202	1.029	1.411	15.79

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airpiano4\2024\04\0405_I\
Data File : r433007.D
Acq On : 6 Apr 2024 11:51 AM
Operator : AIRPIANO4:RAY
Sample : CTO15-LLSTD010
Misc : WG1906037
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 08 13:04:21 2024
Quant Method : O:\Forensics\Data\Airpiano4\2024\04\0405_I\TFS4_240405.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Apr 08 13:01:37 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	88	0.00
2		chlorodifluoromethane	0.863	0.800	7.3	85	0.00
3		propylene	0.511	0.520	-1.8	94	0.00
4		propane	0.598	0.630	-5.4	92	0.00
5		dichlorodifluoromethane	0.979	0.865	11.6	72	0.00
6	C	chloromethane	0.385	0.354	8.1	76	0.00
7		Freon-114	0.913	0.968	-6.0	83	0.00
8	C	methanol	0.230	0.182	20.9	79	0.00
9	C	vinyl chloride	0.439	0.460	-4.8	83	0.00
10	C	1,3-butadiene	0.374	0.422	-12.8	88	0.00
11		butane	0.652	0.577	11.5	73	0.00
13	C	bromomethane	0.352	0.365	-3.7	83	0.00
14	C	chloroethane	0.219	0.233	-6.4	85	0.00
15		ethanol	0.257	0.264	-2.7	86	0.00
16		dichlorofluoromethane	0.835	0.642	23.1	65	0.00
17	C	vinyl bromide	0.357	0.348	2.5	75	0.00
18	C	acrolein	0.212	0.204	3.8	80	0.00
19		acetone	0.479	0.672	-40.3#	120	0.00
20	C	acetonitrile	0.361	0.338	6.4	79	0.00
21		trichlorofluoromethane	0.655	0.789	-20.5	102	0.00
22		isopropyl alcohol	0.907	0.878	3.2	109	0.00
23	C	acrylonitrile	0.448	0.560	-25.0	97	0.00
24		pentane	1.169	1.088	6.9	64	0.00
25		ethyl ether	0.997	1.225	-22.9	90	0.00
26	C	1,1-dichloroethene	0.754	0.789	-4.6	81	-0.01
27		tertiary butyl alcohol	1.064	1.022	3.9	78	-0.01
28	C	methylene chloride	0.716	0.760	-6.1	89	-0.01
29	C	3-chloropropene	0.792	0.878	-10.9	86	0.00
30	C	carbon disulfide	1.721	1.836	-6.7	84	-0.01
31		Freon 113	1.016	1.027	-1.1	81	0.00
32		trans-1,2-dichloroethene	0.763	0.803	-5.2	83	0.00
33	C	1,1-dichloroethane	1.008	1.013	-0.5	80	0.00
34	C	MTBE	1.510	1.614	-6.9	80	0.00
35	C	vinyl acetate	1.220	1.211	0.7	75	0.00
36	C	2-butanone	1.411	1.317	6.7	74	-0.02
37		cis-1,2-dichloroethene	0.710	0.764	-7.6	83	0.00
38		Ethyl Acetate	0.193	0.227	-17.6	93	-0.02
39	C	chloroform	1.002	1.038	-3.6	81	0.00
40		Tetrahydrofuran	0.781	0.806	-3.2	80	-0.02

Calibration Verification Summary
Form 7
Air Volatiles

Client	: Inventum Engineering		**Lab Number**	: L2416214	
Project Name	: BUFFALO COLOR - AREA C		**Project Number**	:	
Instrument ID	: AIRPIANO4		**Calibration Date**	: 04/07/24 12:02	
Lab File ID	: R433031		**Init. Calib. Date(s)**	: 04/05/24	04/06/24
Sample No	: WG1905765-2		**Init. Calib. Times**	: 21:24	01:59
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4-chlorotoluene	1.891	2.01	-	-6.3	30	86	-.03
4-ethyl toluene	7.085	8.182	-	-15.5	30	90	-.03
1,3,5-trimethylbenzene	6.99	7.911	-	-13.2	30	90	-.03
tert-butylbenzene	6.008	6.882	-	-14.5	30	88	-.02
1,2,4-trimethylbenzene	5.77	7.12	-	-23.4	30	93	-.03
decane	4.8	5.475	-	-14.1	30	88	-.03
Benzyl Chloride	3.694	4.368	-	-18.2	30	84	-.03
1,3-dichlorobenzene	3.762	4.299	-	-14.3	30	89	-.03
1,4-dichlorobenzene	3.597	4.223	-	-17.4	30	92	-.02
sec-butylbenzene	8.506	9.687	-	-13.9	30	88	-.03
p-isopropyltoluene	6.85	7.937	-	-15.9	30	87	-.03
1,2-dichlorobenzene	3.503	4.004	-	-14.3	30	91	-.03
n-butylbenzene	5.828	6.539	-	-12.2	30	85	-.03
1,2-dibromo-3-chloropropan	1.665	1.815	-	-9	30	83	-.03
undecane	4.769	5.701	-	-19.5	30	87	-.03
dodecane	4.24	5.27	-	-24.3	30	82	-.02
1,2,4-trichlorobenzene	2.596	3.449	-	-32.9*	30	92	-.03
naphthalene	5.728	5.975	-	-4.3	30	79	-.03
1,2,3-trichlorobenzene	2.429	2.63	-	-8.3	30	81	-.03
hexachlorobutadiene	2.91	3.492	-	-20	30	92	-.02

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: Inventum Engineering		Lab Number	: L2416214	
Project Name	: BUFFALO COLOR - AREA C		Project Number	:	
Instrument ID	: AIRLAB17		Calibration Date	: 04/08/24 12:11	
Lab File ID	: R1739837		Init. Calib. Date(s)	: 03/27/24	03/27/24
Sample No	: WG1906156-2		Init. Calib. Times	: 04:01	08:43
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
diisopropyl ether	0.217	0.191	-	12	30	70	0
tert-butyl ethyl ether	0.731	0.616	-	15.7	30	68	-.03
1,1,1-trichloroethane	0.325	0.311	-	4.3	30	76	-.02
1,1-dichloropropene	0.325	0.357	-	-9.8	30	87	-.03
benzene	0.785	0.826	-	-5.2	30	82	-.03
carbon tetrachloride	0.315	0.299	-	5.1	30	72	-.03
cyclohexane	0.46	0.419	-	8.9	30	73	-.03
tert-amyl methyl ether	0.6	0.645	-	-7.5	30	85	-.03
dibromomethane	0.236	0.238	-	-0.8	30	80	-.03
1,2-dichloropropane	0.275	0.29	-	-5.5	30	84	-.03
bromodichloromethane	0.4	0.412	-	-3	30	77	-.04
1,4-dioxane	0.177	0.173	-	2.3	30	77	-.04
trichloroethene	0.328	0.329	-	-0.3	30	79	-.04
2,2,4-trimethylpentane	1.366	1.255	-	8.1	30	74	-.04
methyl methacrylate	0.271	0.317	-	-17	30	93	-.04
heptane	0.485	0.636	-	-31.1*	30	103	-.05
cis-1,3-dichloropropene	0.374	0.418	-	-11.8	30	85	-.04
4-methyl-2-pentanone	0.582	0.755	-	-29.7	30	102	-.04
trans-1,3-dichloropropene	0.293	0.317	-	-8.2	30	81	-.05
1,1,2-trichloroethane	0.282	0.305	-	-8.2	30	85	-.05
chlorobenzene-D5	1	1	-	0	30	80	-.03
toluene	5.483	6.354	-	-15.9	30	77	-.04
1,3-dichloropropane	2.461	3.238	-	-31.6*	30	87	-.04
2-hexanone	3.074	4.99	-	-62.3*	30	100	-.03
dibromochloromethane	2.219	3.044	-	-37.2*	30	84	-.03
1,2-dibromoethane	2.513	3.384	-	-34.7*	30	87	-.04
butyl acetate	0.562	0.788	-	-40.2*	30	92	-.03
octane	2.118	2.284	-	-7.8	30	74	-.03
tetrachloroethene	2.119	2.546	-	-20.2	30	80	-.04
1,1,1,2-tetrachloroethane	1.813	2.322	-	-28.1	30	83	-.03
chlorobenzene	4.366	5.285	-	-21	30	80	-.03
ethylbenzene	6.763	8.174	-	-20.9	30	79	-.03
m+p-xylene	5.318	6.412	-	-20.6	30	79	-.03
bromoform	1.66	2.492	-	-50.1*	30	91	-.03
styrene	4.196	5.449	-	-29.9	30	83	-.02
1,1,2,2-tetrachloroethane	4.252	5.055	-	-18.9	30	76	-.03
o-xylene	5.321	6.376	-	-19.8	30	78	-.03
1,2,3-trichloropropane	2.968	3.851	-	-29.8	30	85	-.03
nonane	4.606	6.838	-	-48.5*	30	99	-.03
isopropylbenzene	6.827	8.734	-	-27.9	30	85	-.03
bromobenzene	3.934	4.733	-	-20.3	30	80	-.03
2-chlorotoluene	2.068	2.504	-	-21.1	30	81	-.03
n-propylbenzene	2.359	2.741	-	-16.2	30	77	-.03

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: Inventum Engineering		**Lab Number**	: L2416214	
Project Name	: BUFFALO COLOR - AREA C		**Project Number**	:	
Instrument ID	: AIRLAB17		**Calibration Date**	: 04/08/24 12:11	
Lab File ID	: R1739837		**Init. Calib. Date(s)**	: 03/27/24	03/27/24
Sample No	: WG1906156-2		**Init. Calib. Times**	: 04:01	08:43
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4-chlorotoluene	2.004	2.436	-	-21.6	30	81	-.03
4-ethyl toluene	7.113	9.409	-	-32.3*	30	87	-.02
1,3,5-trimethylbenzene	6.069	7.647	-	-26	30	84	-.02
tert-butylbenzene	6.628	7.674	-	-15.8	30	77	-.03
1,2,4-trimethylbenzene	5.998	7.7	-	-28.4	30	84	-.03
decane	5.195	6.06	-	-16.7	30	77	-.02
Benzyl Chloride	3.518	4.355	-	-23.8	30	74	-.03
1,3-dichlorobenzene	3.532	4.556	-	-29	30	84	-.03
1,4-dichlorobenzene	3.438	4.354	-	-26.6	30	83	-.03
sec-butylbenzene	8.518	10.893	-	-27.9	30	86	-.02
p-isopropyltoluene	7.809	9.174	-	-17.5	30	77	-.02
1,2-dichlorobenzene	3.334	4.232	-	-26.9	30	83	-.02
n-butylbenzene	6.404	8.01	-	-25.1	30	82	-.02
1,2-dibromo-3-chloropropan	1.335	1.807	-	-35.4*	30	81	-.03
undecane	5.378	6.44	-	-19.7	30	76	.02
dodecane	4.922	0.05	-	99*	30	1	.07
1,2,4-trichlorobenzene	2.237	3.022	-	-35.1*	30	77	.04
naphthalene	6.44	8.328	-	-29.3	30	78	.04
1,2,3-trichlorobenzene	1.977	2.629	-	-33*	30	79	.1
hexachlorobutadiene	2.082	2.674	-	-28.4	30	79	.29

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: Inventum Engineering		**Lab Number**	: L2416214	
Project Name	: BUFFALO COLOR - AREA C		**Project Number**	:	
Instrument ID	: AIRLAB17		**Calibration Date**	: 04/09/24 13:21	
Lab File ID	: R1739861		**Init. Calib. Date(s)**	: 03/27/24	03/27/24
Sample No	: WG1906606-2		**Init. Calib. Times**	: 04:01	08:43
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
diisopropyl ether	0.217	0.191	-	12	30	68	0
tert-butyl ethyl ether	0.731	0.613	-	16.1	30	66	-.02
1,1,1-trichloroethane	0.325	0.311	-	4.3	30	74	0
1,1-dichloropropene	0.325	0.353	-	-8.6	30	84	-.02
benzene	0.785	0.815	-	-3.8	30	80	-.02
carbon tetrachloride	0.315	0.293	-	7	30	70	-.03
cyclohexane	0.46	0.419	-	8.9	30	72	-.03
tert-amyl methyl ether	0.6	0.628	-	-4.7	30	81	-.03
dibromomethane	0.236	0.243	-	-3	30	81	-.03
1,2-dichloropropane	0.275	0.295	-	-7.3	30	84	-.03
bromodichloromethane	0.4	0.405	-	-1.3	30	74	-.03
1,4-dioxane	0.177	0.171	-	3.4	30	75	-.03
trichloroethene	0.328	0.333	-	-1.5	30	79	-.03
2,2,4-trimethylpentane	1.366	1.252	-	8.3	30	73	-.03
methyl methacrylate	0.271	0.322	-	-18.8	30	92	-.03
heptane	0.485	0.643	-	-32.6*	30	102	-.03
cis-1,3-dichloropropene	0.374	0.409	-	-9.4	30	81	-.03
4-methyl-2-pentanone	0.582	0.765	-	-31.4*	30	101	-.03
trans-1,3-dichloropropene	0.293	0.309	-	-5.5	30	78	-.03
1,1,2-trichloroethane	0.282	0.309	-	-9.6	30	85	-.03
chlorobenzene-D5	1	1	-	0	30	77	-.03
toluene	5.483	6.393	-	-16.6	30	75	-.03
1,3-dichloropropane	2.461	3.207	-	-30.3*	30	84	-.03
2-hexanone	3.074	5.126	-	-66.8*	30	100	-.03
dibromochloromethane	2.219	3.093	-	-39.4*	30	83	-.03
1,2-dibromoethane	2.513	3.4	-	-35.3*	30	85	-.03
butyl acetate	0.562	0.787	-	-40*	30	89	-.02
octane	2.118	2.299	-	-8.5	30	72	-.03
tetrachloroethene	2.119	2.544	-	-20.1	30	78	-.03
1,1,1,2-tetrachloroethane	1.813	2.344	-	-29.3	30	81	-.03
chlorobenzene	4.366	5.27	-	-20.7	30	77	-.03
ethylbenzene	6.763	8.285	-	-22.5	30	78	-.02
m+p-xylene	5.318	6.468	-	-21.6	30	78	-.03
bromoform	1.66	2.495	-	-50.3*	30	88	-.03
styrene	4.196	5.453	-	-30	30	81	-.02
1,1,2,2-tetrachloroethane	4.252	5.099	-	-19.9	30	75	-.03
o-xylene	5.321	6.49	-	-22	30	77	-.03
1,2,3-trichloropropane	2.968	3.846	-	-29.6	30	83	-.03
nonane	4.606	6.901	-	-49.8*	30	97	-.02
isopropylbenzene	6.827	8.661	-	-26.9	30	82	-.02
bromobenzene	3.934	4.721	-	-20	30	77	-.02
2-chlorotoluene	2.068	2.549	-	-23.3	30	80	-.03
n-propylbenzene	2.359	2.783	-	-18	30	76	-.02

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: Inventum Engineering		**Lab Number**	: L2416214	
Project Name	: BUFFALO COLOR - AREA C		**Project Number**	:	
Instrument ID	: AIRLAB17		**Calibration Date**	: 04/09/24 13:21	
Lab File ID	: R1739861		**Init. Calib. Date(s)**	: 03/27/24	03/27/24
Sample No	: WG1906606-2		**Init. Calib. Times**	: 04:01	08:43
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4-chlorotoluene	2.004	2.467	-	-23.1	30	80	-.03
4-ethyl toluene	7.113	9.39	-	-32*	30	85	-.02
1,3,5-trimethylbenzene	6.069	7.614	-	-25.5	30	81	-.02
tert-butylbenzene	6.628	7.683	-	-15.9	30	75	-.02
1,2,4-trimethylbenzene	5.998	7.637	-	-27.3	30	81	-.03
decane	5.195	6.181	-	-19	30	76	-.02
Benzyl Chloride	3.518	4.406	-	-25.2	30	73	-.02
1,3-dichlorobenzene	3.532	4.556	-	-29	30	82	-.02
1,4-dichlorobenzene	3.438	4.53	-	-31.8*	30	84	-.02
sec-butylbenzene	8.518	10.948	-	-28.5	30	84	-.02
p-isopropyltoluene	7.809	9.212	-	-18	30	75	-.02
1,2-dichlorobenzene	3.334	4.325	-	-29.7	30	83	-.02
n-butylbenzene	6.404	8.156	-	-27.4	30	81	-.02
1,2-dibromo-3-chloropropan	1.335	1.81	-	-35.6*	30	79	-.02
undecane	5.378	6.62	-	-23.1	30	76	.02
1,2,4-trichlorobenzene	2.237	3.066	-	-37.1*	30	76	.05
naphthalene	6.44	8.695	-	-35*	30	79	.05
1,2,3-trichlorobenzene	1.977	2.694	-	-36.3*	30	79	.11
hexachlorobutadiene	2.082	2.665	-	-28	30	77	.3

* Value outside of QC limits.

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Inventum Engineering	**Lab Number**	: L2416214
Project Name	: BUFFALO COLOR - AREA C	**Project Number**	:
Lab ID	: L2416214-01	**Date Collected**	: 03/25/24 15:06
Client ID	: ARREAC-IA-01	**Date Received**	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	**Date Analyzed**	: 04/07/24 23:13
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: KJD
Lab File ID	: R433044_EV2	**Instrument ID**	: AIRPIANO4
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
75-01-4	Vinyl chloride	ND	0.020	0.009	ND	0.051	0.023	U
75-35-4	1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.040	U
71-55-6	1,1,1-Trichloroethane	0.256	0.020	0.006	1.40	0.109	0.032	
56-23-5	Carbon tetrachloride	0.084	0.020	0.011	0.528	0.126	0.069	
79-01-6	Trichloroethene	0.019	0.020	0.006	0.102	0.107	0.032	J
127-18-4	Tetrachloroethene	21.1	0.020	0.007	143	0.136	0.050	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Inventum Engineering	**Lab Number**	: L2416214
Project Name	: BUFFALO COLOR - AREA C	**Project Number**	:
Lab ID	: L2416214-03	**Date Collected**	: 03/25/24 15:04
Client ID	: ARREAC-IA-02	**Date Received**	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	**Date Analyzed**	: 04/07/24 23:52
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: KJD
Lab File ID	: R433045_EV2	**Instrument ID**	: AIRPIANO4
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
75-01-4	Vinyl chloride	ND	0.020	0.009	ND	0.051	0.023	U
75-35-4	1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.040	U
71-55-6	1,1,1-Trichloroethane	0.265	0.020	0.006	1.45	0.109	0.032	
56-23-5	Carbon tetrachloride	0.079	0.020	0.011	0.497	0.126	0.069	
79-01-6	Trichloroethene	0.022	0.020	0.006	0.118	0.107	0.032	
127-18-4	Tetrachloroethene	19.1	0.020	0.007	130	0.136	0.050	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Inventum Engineering	**Lab Number**	: L2416214
Project Name	: BUFFALO COLOR - AREA C	**Project Number**	:
Lab ID	: L2416214-05	**Date Collected**	: 03/25/24 16:06
Client ID	: ARREAC-IA-03	**Date Received**	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	**Date Analyzed**	: 04/08/24 00:30
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: KJD
Lab File ID	: R433046_EV2	**Instrument ID**	: AIRPIANO4
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
75-01-4	Vinyl chloride	ND	0.020	0.009	ND	0.051	0.023	U
75-35-4	1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.040	U
71-55-6	1,1,1-Trichloroethane	0.412	0.020	0.006	2.25	0.109	0.032	
56-23-5	Carbon tetrachloride	0.083	0.020	0.011	0.522	0.126	0.069	
79-01-6	Trichloroethene	0.025	0.020	0.006	0.134	0.107	0.032	
127-18-4	Tetrachloroethene	21.0	0.020	0.007	142	0.136	0.050	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Inventum Engineering	**Lab Number**	: L2416214
Project Name	: BUFFALO COLOR - AREA C	**Project Number**	:
Lab ID	: L2416214-07	**Date Collected**	: 03/25/24 15:15
Client ID	: ARREAC-IA-04	**Date Received**	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	**Date Analyzed**	: 04/08/24 01:08
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: KJD
Lab File ID	: R433047_EV2	**Instrument ID**	: AIRPIANO4
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
75-01-4	Vinyl chloride	ND	0.020	0.009	ND	0.051	0.023	U
75-35-4	1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.040	U
71-55-6	1,1,1-Trichloroethane	0.272	0.020	0.006	1.48	0.109	0.032	
56-23-5	Carbon tetrachloride	0.089	0.020	0.011	0.560	0.126	0.069	
79-01-6	Trichloroethene	0.018	0.020	0.006	0.097	0.107	0.032	J
127-18-4	Tetrachloroethene	19.3	0.020	0.007	131	0.136	0.050	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Inventum Engineering	**Lab Number**	: L2416214
Project Name	: BUFFALO COLOR - AREA C	**Project Number**	:
Lab ID	: L2416214-09	**Date Collected**	: 03/25/24 15:50
Client ID	: ARREAC-OA	**Date Received**	: 03/25/24
Sample Location	: 140 LEE STREET BUFFALO, NY	**Date Analyzed**	: 04/07/24 22:35
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: KJD
Lab File ID	: R433043_EV2	**Instrument ID**	: AIRPIANO4
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
75-01-4	Vinyl chloride	ND	0.020	0.009	ND	0.051	0.023	U
75-35-4	1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.040	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	0.006	ND	0.109	0.032	U
56-23-5	Carbon tetrachloride	0.083	0.020	0.011	0.522	0.126	0.069	
79-01-6	Trichloroethene	0.015	0.020	0.006	0.081	0.107	0.032	J
127-18-4	Tetrachloroethene	0.219	0.020	0.007	1.49	0.136	0.050	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Inventum Engineering	**Lab Number**	: L2416214
Project Name	: BUFFALO COLOR - AREA C	**Project Number**	:
Lab ID	: WG1905766-4	**Date Collected**	: NA
Client ID	: WG1905766-4BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 04/07/24 15:55
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: KJD
Lab File ID	: R433035_EV2	**Instrument ID**	: AIRPIANO4
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
75-01-4	Vinyl chloride	ND	0.020	0.009	ND	0.051	0.023	U
75-35-4	1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.040	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	0.006	ND	0.109	0.032	U
56-23-5	Carbon tetrachloride	ND	0.020	0.011	ND	0.126	0.069	U
79-01-6	Trichloroethene	ND	0.020	0.006	ND	0.107	0.032	U
127-18-4	Tetrachloroethene	ND	0.020	0.007	ND	0.136	0.050	U