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May 5, 2021

Joshua Vaccaro
Assistant Environmental Engineer
Department of Environmental Conservation
Division of Environmental Remediation
270 Michigan Avenue
Buffalo, New York 14203

**Re: 201 Ellicott Street Site (C915331)
Market Building Soil Vapor Intrusion Sampling Results**

Dear Josh:

C&S Engineers, Inc. (C&S) has performed soil vapor intrusion (SVI) sampling for the structure located at 201 Ellicott Street, Buffalo, New York (The Site). The Site is currently under construction. The planned redevelopment activities include construction of a multistory, mixed-use complex that will include approximately 200 affordable housing residential units, open green space, parking and a component to increase food access. This investigation was conducted on a separate 19,000-square-foot slab-on-grade building ("Market Building"). The affordable housing unit building will be sampled at a later date.

Figure 1 shows the 3D rendering of the Market Building. **Figure 2** presents the foundation plan of the Market Building.

SITE BACKGROUND

The 201 Ellicott Street Site was remediated to address volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), and metals in Historic Fill Material (HFM) to achieve a Track 1 Unrestricted Use Cleanup, which is consistent with the intended use of the Site.

The Site was remediated in accordance with the remedy selected by the New York State Department of Environmental Conservation (NYSDEC) in the Decision Document dated August 4, 2020. The factors considered during the selection of the remedy are those listed in 6NYCRR 375-1.8. The following are the components of the selected remedy:

- Excavation of soil/fill exceeding Unrestricted Use SCOs to depths ranging from four to eleven and a half feet below ground surface.
- Removal of three 500-gallon gasoline underground storage tanks.
- Execution and recording of a contingent Environmental Easement to restrict land use and prevent future exposure to any contamination remaining at the Site.
- Development and implementation of a contingent Site Management Plan (SMP) for long term management of remaining contamination as required by the Environmental Easement, which

includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting.

The remedial excavation depths removed all contaminated HFM from the entire 2.48-acre Site. A total of 50,971 tons of non-hazardous contaminated soil and fill material was excavated for off-site disposal at approved landfills. Site-wide sampling confirmed that all material remaining at the Site does not exceed SCOs.

During the Remedial Investigation (RI), groundwater was encountered at three separate zones at the Site; seven feet below grade within the HFM, 14 feet below grade in deep native soil, and at 34 feet below grade in the bedrock zone. The groundwater sampling results identified marginal concentrations of VOCs (viz., trichloroethene), semivolatile organic compounds (SVOCs), and metals (arsenic, manganese, and selenium) that exceed NYSDEC standards. Groundwater exceedances were detected in only groundwater samples collected from the uppermost water-bearing zone, within the HFM. Because the HFM material has been removed from the Site and a city-wide groundwater use ban is in place, the potential exposure to remaining groundwater contamination is unlikely.

Figure 4 presents the RI results and shows the approximate extents of the Market Building. **Figure 5** presents the signed and stamped excavation depths with the approximate extents of the Market Building.

SOIL VAPOR INTRUSION SAMPLING PROGRAM

Soil Vapor Intrusion (SVI) sampling was conducted to evaluate if chlorinated volatile contaminants detected in the groundwater samples have impacted air quality under and within the Market Building. In accordance with the guidance, if no apparent impacts from groundwater are detected above the New York State Department of Health (NYSDOH) guidance, an active Sub-slab Depressurization System is not necessary at the Site, as per the contingent SMP.

Worst Case Scenario

As stated in NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York:

Sub-slab vapor and indoor air samples are typically collected when the likelihood of soil vapor intrusion to occur is considered to be the greatest (i.e., worst-case conditions). If samples are collected at other times (typically, samples collected outside of the heating season), then resampling during worst-case conditions may be appropriate to verify that actions taken to address exposures related to soil vapor intrusion are protective of human health.

The NYSDOH guidance does not identify a definite time period but does indicate that sampling is to occur during a “worst case scenario,” meaning that significant temperature difference must exist between a comfortable interior temperature and the outside temperature and that the building’s heating system must be running to maintain this temperature differential.

Based on this guidance, the SVI sampling performed at the Market Building at the end of April 2021 meets the definition of a worst case scenario. Samples collected for the Market Building were

collected when the outdoor temperatures were 55 Degrees Fahrenheit or lower (weather data is provided as an attachment) and the indoor temperature was maintained at 75 Degrees Fahrenheit. When buildings are closed and heated, a difference in temperature between the inside and outdoor air induces a stack effect, venting warm air from higher floors to the outside. Vapor intrusion can be enhanced as the air is replaced in the lower parts of the building. The heating system was operating prior to and during the sampling event, additionally, worker traffic into and out of the Market Building was reduced to a minimum. This lack of activity within the Market Building further establishes a worst case scenario considering that during the future operation of the Market Building, employees and customers will be constantly coming in and out of the building during retail business hours.

Heating Season

As stated in Department of Health Guidance for Evaluating Soil Vapor Intrusion in the State of New York Section 2.4.2 states:

Sub-slab vapor samples and, unless immediate sampling is appropriate, indoor air samples are typically collected during the heating season because soil vapor intrusion is more likely to occur when a building's heating system is in operation and doors and windows are closed. In New York State, heating systems are generally expected to be operating routinely from November 15th to March 31st. However, these dates are not absolute; the timeframe for sampling may vary depending on factors such as the location of the site (e.g., upstate versus downstate) and the weather conditions for a particular year.

According to Tenants' Rights in New York State between October 1 and May 31 of each year, building owners are required to provide heat under the following conditions:

- Between the hours of 6:00 AM and 10:00 PM, if the outside air temperature falls below 55 Degrees Fahrenheit, the inside temperature is required to be at least 68 Degrees Fahrenheit and;
- Between the hours of 10:00 PM and 6:00 AM, if the temperature outside falls below 40 Degrees Fahrenheit, the inside temperature is required to be at least 55 Degrees Fahrenheit.

As defined by these Tenants' Rights, the outside temperatures that existing during the SVI sampling event met the definition of the "heating season."

In accordance with the SMP (Revision 01) dated September 2020, C&S collected and subcontracted for the analysis of sub-slab, indoor, and outdoor air samples, performed a limited pre-occupancy building assessment, and inventoried chemical and petroleum containers in the sampling area. This letter describes the scope, methods, and findings / results of our SVI assessment.

METHODS

The SVI assessment was performed consistent with the NYSDOH document: *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, dated October 2006 (as amended).

C&S collected the following samples:

<i>Sample ID</i>	<i>Location</i>	<i>Date Sampled</i>
MB-SS-1	Freight/Loading Dock Area	4/29/2021 - 4/30/2021
MB-IA-1	Freight/Loading Dock Area	4/29/2021 - 4/30/2021
MB-SS-2	Storage Area	4/29/2021 - 4/30/2021
MB-IA-2	Storage Area	4/29/2021 - 4/30/2021
MB-SS-3	Market Area	4/29/2021 - 4/30/2021
MB-IA-3	Market Area	4/29/2021 - 4/30/2021
MB-OA-1	Outdoor Front Entrance	4/29/2021 - 4/30/2021

SS = Sub Slab, IA = Indoor Air, OA = Outdoor Air

Sample locations were selected by C&S based on the Site Management Plan and input from the Construction Manager. Locations were intended to characterize conditions across the footprint of the Market Building

C&S' sampling protocols are consistent with NYSDOH guidance, and are fully detailed as an attachment to this letter. The following provides highlights of the protocol:

- Prior to initiating sampling, C&S conducted a background review, building assessment, and preliminary screening in order to select appropriate sampling locations that will not be affected by building operations, construction, or features such as occupants, sumps/basements, windows/doors, heating/cooling systems, material storage, etc. In addition, an inventory of products utilized in or near the sampling areas was prepared.
- Helium is used as a field tracer prior to sampling to confirm that sub-slab airspace and indoor air space are not connected (the clay seal is functioning properly). The helium was introduced into a dome positioned above the sampling point. The tubing and indoor air were isolated prior to introducing helium into the dome. The helium concentration was measured using a helium meter that is capable to measure down to 1-2%. During this sampling event, no helium was detected.
- Field documentation was maintained in a field notebook and on field data forms.

The sample locations are shown on **Figure 3**.

The air samples were analyzed by Alpha Analytical (Alpha). The samples were analyzed via USEPA Method TO-15 for VOCs. Alpha's analytical methods are consistent with USEPA protocols for collecting air samples using TO-15 Summa™ canisters [(Compendium of Methods for the Determination of Compounds in Ambient Air, Second Edition, Compendium Method TO-15,

Determination of Volatile Organic Compounds in Air Collected in Specially-prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GCMS)]. Each batch of canisters was certified clean by the laboratory according to USEPA Method TO-15.

FINDINGS / RESULTS

The NYSDOH document: *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, dated October 2006 (as amended), states that soil vapor sampling results should be reviewed as a whole, in combination with the results of other environmental sampling, to identify trends and variations in the data. The guidance also indicates that, to put perspective on the data, soil vapor results should be compared to background outdoor air levels, site-related outdoor and indoor air sampling results, and NYSDOH guidelines for VOCs in air. NYSDOH has a very limited list of compounds with air guideline values (AGV), and this list includes:

<i>Compound</i>	<i>AGV ($\mu\text{g}/\text{M}^3$)</i>
Methylene Chloride	60
PCBs	1
tetrachlorodibenzo-p-dioxin	0.00001
PCE	30
TCE	2

In addition, the NYSDOH developed decision matrices to be used as a risk management tool for data assessment. They are designed to be applied on a case-by-case basis regarding actions that should be taken to address current and potential exposures related to SVI. The decision matrices are as follows:

Matrix A – carbon tetrachloride, 1,1-dichloroethene (1,1-DCE), cis-1,2-dichloroethene (cis-1,2-DCE), and TCE.

Sub-Slab Vapor Concentration of Compound ($\mu\text{g}/\text{M}^3$)	Indoor Air Concentration of Compounds ($\mu\text{g}/\text{M}^3$)		
	< 0.2	0.2 to < 1	1+
< 6	No further action	No further action	Identify source(s) and resample or mitigate
6 to < 60	No further action	Monitor	Mitigate
60+	Mitigate	Mitigate	Mitigate

Matrix B – methylene chloride, tetrachloroethene (PCE), and 1,1,1-trichloroethane (1,1,1-TCA).

Sub-Slab Vapor Concentration of Compound ($\mu\text{g}/\text{M}^3$)	Indoor Air Concentration of Compounds ($\mu\text{g}/\text{M}^3$)		
	< 3	3 to 10	10+
< 100	No further action	No further action	Identify source(s) and resample or mitigate
100 to < 1,000	No further action	Monitor	Mitigate
1,000+	Mitigate	Mitigate	Mitigate

Matrix C – vinyl chloride

Sub-Slab Vapor Concentration of Compound ($\mu\text{g}/\text{M}^3$)	Indoor Air Concentration of Compounds ($\mu\text{g}/\text{M}^3$)	
	< 0.2	0.2+
< 6	No further action	Identify source(s) and resample or mitigate
6 to < 60	Monitor	Mitigate
60+	Mitigate	Mitigate

NYSDOH explains No Further Action, Identify Source(s) and Resample or Mitigate, Monitor, and Mitigate as follows:

No further action: No additional actions are recommended to address human exposures.

Identify Source(s) and Resample or Mitigate: DOH recommends that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, DOH recommends the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

Monitor: DOH recommends monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate

temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Mitigate: DOH recommends mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building -specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

The air sampling results were compared to applicable guidance to provide some measure of evaluation to the findings. The following observations regarding the data are provided:

- Matrix A – carbon tetrachloride, 1,1-DCE, cis-1,2-DCE, and TCE.
 - Carbon tetrachloride was not detected in the sub-slab samples. Indoor air samples contained carbon tetrachloride at $0.352 \mu\text{g}/\text{m}^3$ to $0.365 \mu\text{g}/\text{m}^3$. Based on Matrix A, no further action is required for carbon tetrachloride concentrations.
 - 1,1-DCE was not detected in the sub-slab and indoor air samples.
 - cis-1,2-DCE was not detected in the sub-slab samples. One indoor air sample contained cis-1,2-DCE below $0.2 \mu\text{g}/\text{m}^3$ limit at $0.155 \mu\text{g}/\text{m}^3$. cis-1,2-DCE was not detected in the remaining indoor air samples.
 - TCE was not detected in the sub-slab and indoor air samples.
- Matrix B – methylene chloride, PCE, and 1,1,1-TCA.
 - Methylene chloride was not detected in the sub slab and indoor air samples.
 - PCE concentrations in sub-slab samples ranged from $16.7 \mu\text{g}/\text{m}^3$ to $14.9 \mu\text{g}/\text{m}^3$ which is below the $100 \mu\text{g}/\text{m}^3$ no further action limit. Corresponding indoor air samples were detected PCE at $8.07 \mu\text{g}/\text{m}^3$ to $11.1 \mu\text{g}/\text{m}^3$. Based on Matrix B, only one location (MB-IA-3) slightly exceeded the indoor air limit for no further action. It should be noted that the outdoor air sample contained PCE at $5.37 \mu\text{g}/\text{m}^3$.
 - 1,1,1-TCA was not detected in the sub slab and indoor air samples.
- Matrix C – vinyl chloride.
 - Concentrations of vinyl chloride in each of the sub slab and indoor air samples were not detected above reporting limits.
- Petroleum-related VOCs
 - Petroleum-related VOCs were detected in each of the samples and included various benzene compounds, xylenes, and toluene.

- No petroleum-related VOCs are included in the NYSDOH guidance document for comparison. However, comparison of the individual analytes to both PADEP and NJDEP vapor intrusion indoor air screening levels indicates that all concentrations are well below the applicable thresholds for concern.

CONCLUSIONS

The results of this SVI assessment indicate that the primary VOC contaminant of concern at the Site, TCE, was not detected in either the sub-slab or indoor air samples. This result demonstrates that the removal of all contaminated HFM from the Site was effective in eliminating the contaminant impacts to air quality at the Site.

Although other chlorinated solvents were detected in the samples, the concentrations of these compounds in the indoor air samples were generally less than the sub-slab samples, or were entirely absent. No indoor air sample result exceeded NYSDOH AGVs and PADEP/NJDEP screening levels.

Except for one indoor air sample that detected PCE slightly over the no further action limit, application of the NYSDOH Decision Matrices indicates that no further action is required. The results from the indoor air sample at MB-IA-3 should take into consideration that sub-slab results for PCE were well below Matrix B limits and that the outdoor air sample contained PCE. Because the heating system draws in outside air to heat the building, this PCE concentration appears to be related to the outdoor air sample result. Additionally, no soil or groundwater sample collected during the extensive RI identified concentrations of PCE above the respective guidance values, indicating that the Site's soil and groundwater is not the source of PCE in the air samples.

Based on the results of the SVI sampling program, the Site meets the complete definition of a Track 1 Cleanup, and, therefore, the BCP Volunteer requests that the Environmental Easement be modified to remove the engineering and institutional controls from the portion of the Site identified as 225 Ellicott Street (Market Building Parcel). Associated with this modification would be the elimination of the need for any Site Management Plan requirements

Should you have any questions regarding this letter or require additional information, please feel free to contact the undersigned.

Sincerely,

C&S ENGINEERS, INC.



Daniel E. Riker, P.G.
Managing Geologist

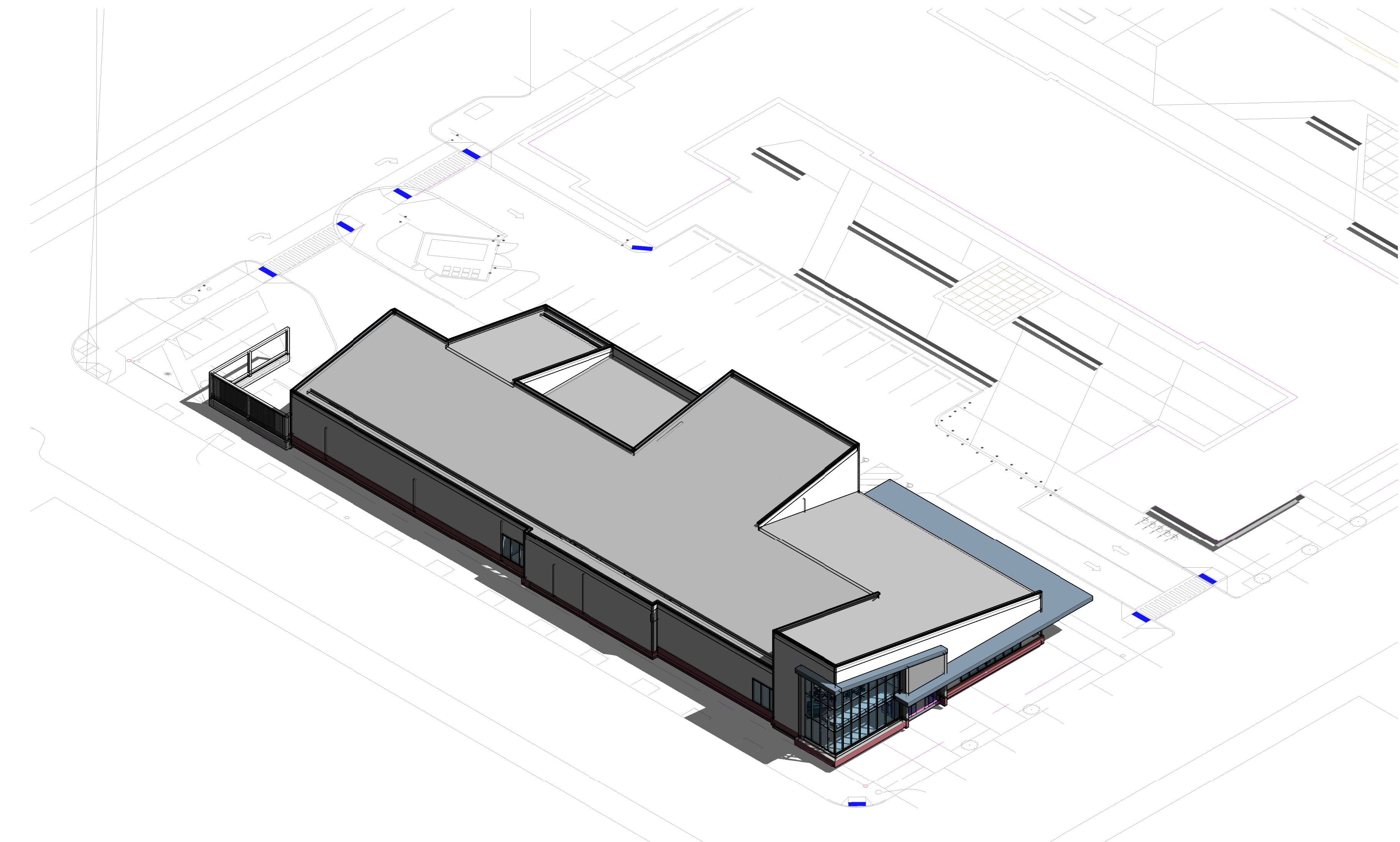
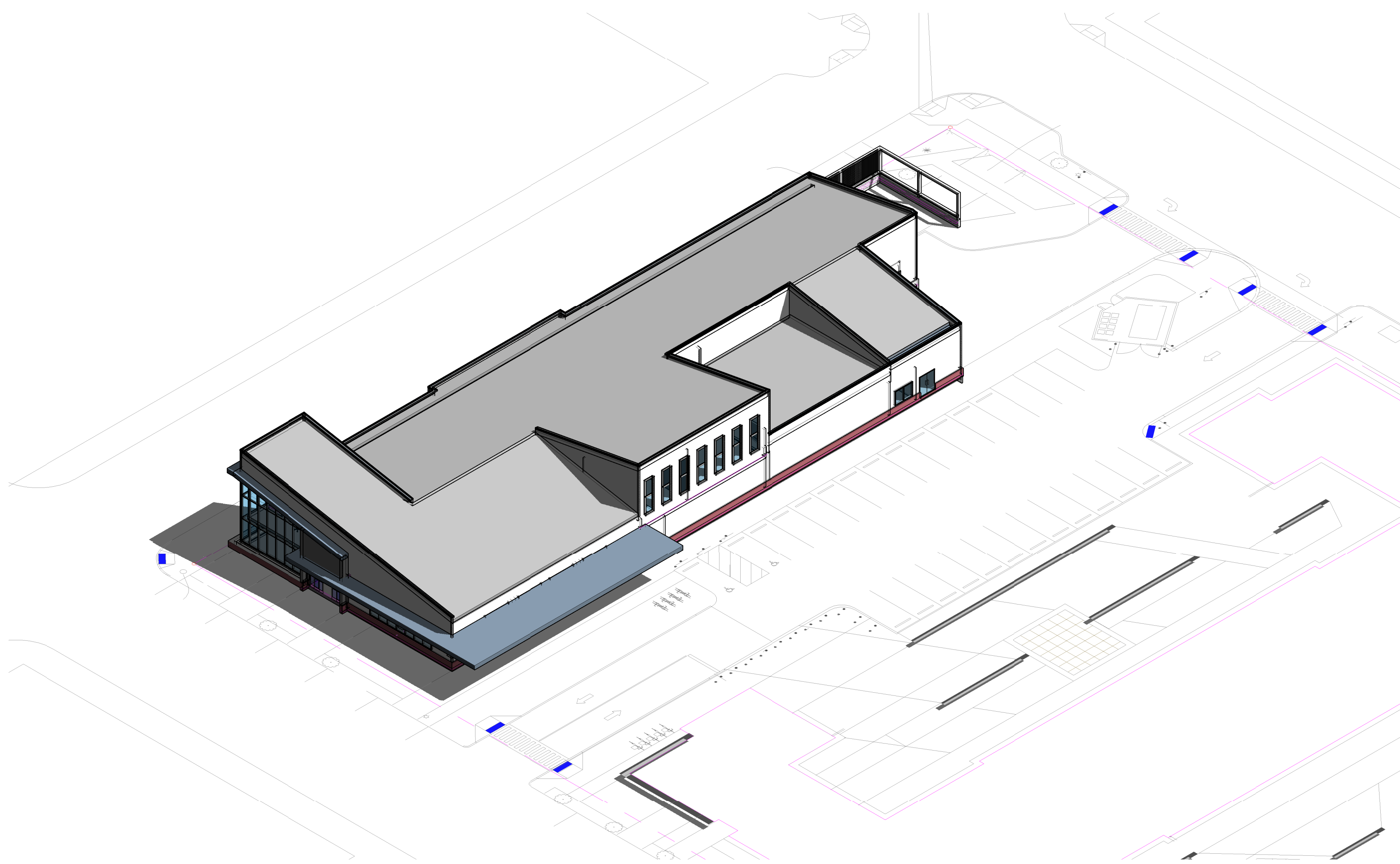


Cody A. Martin
Project Environmental Scientist

Attachments: Figures
Weather Data
Data Summary
Laboratory Analytical Report
C&S Air Sampling Protocol

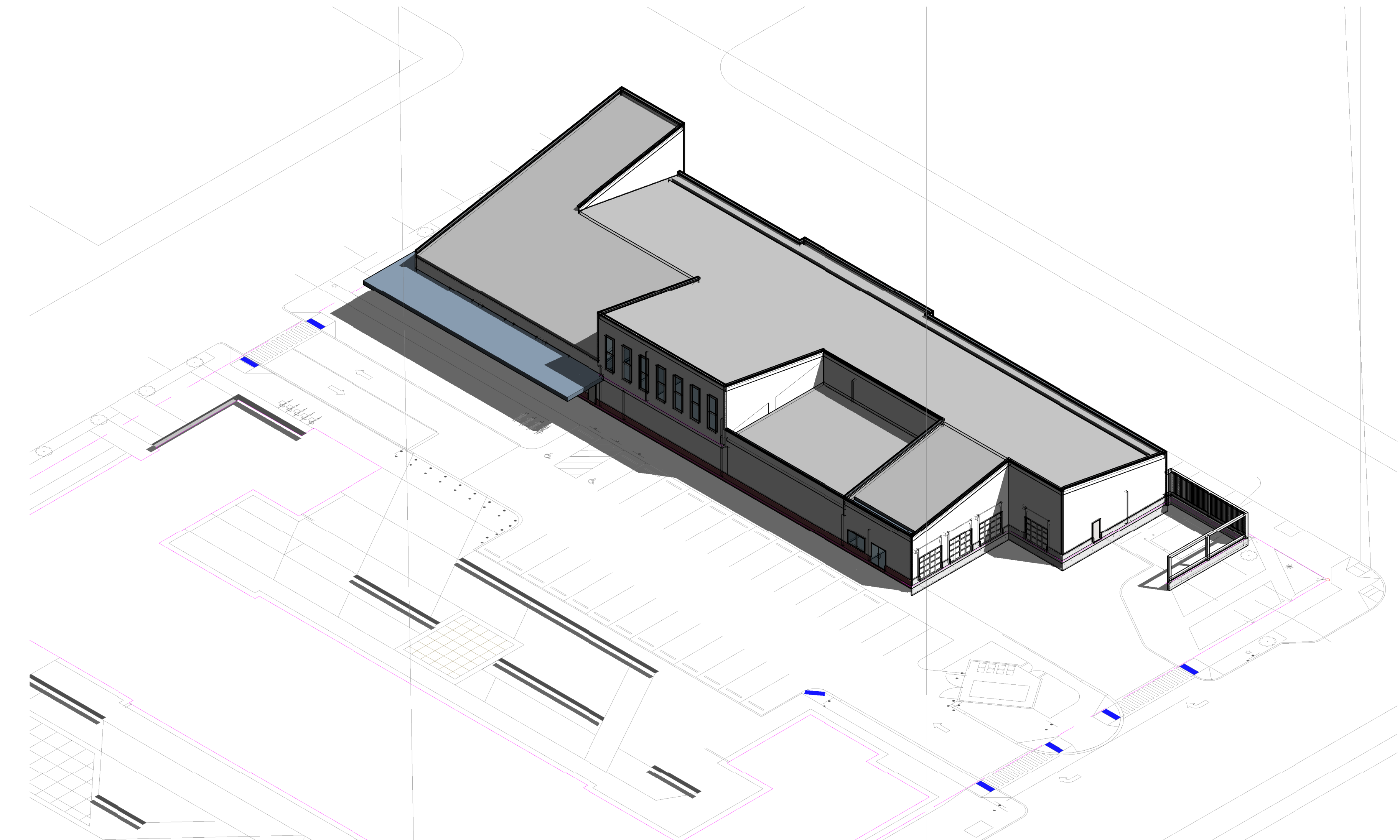
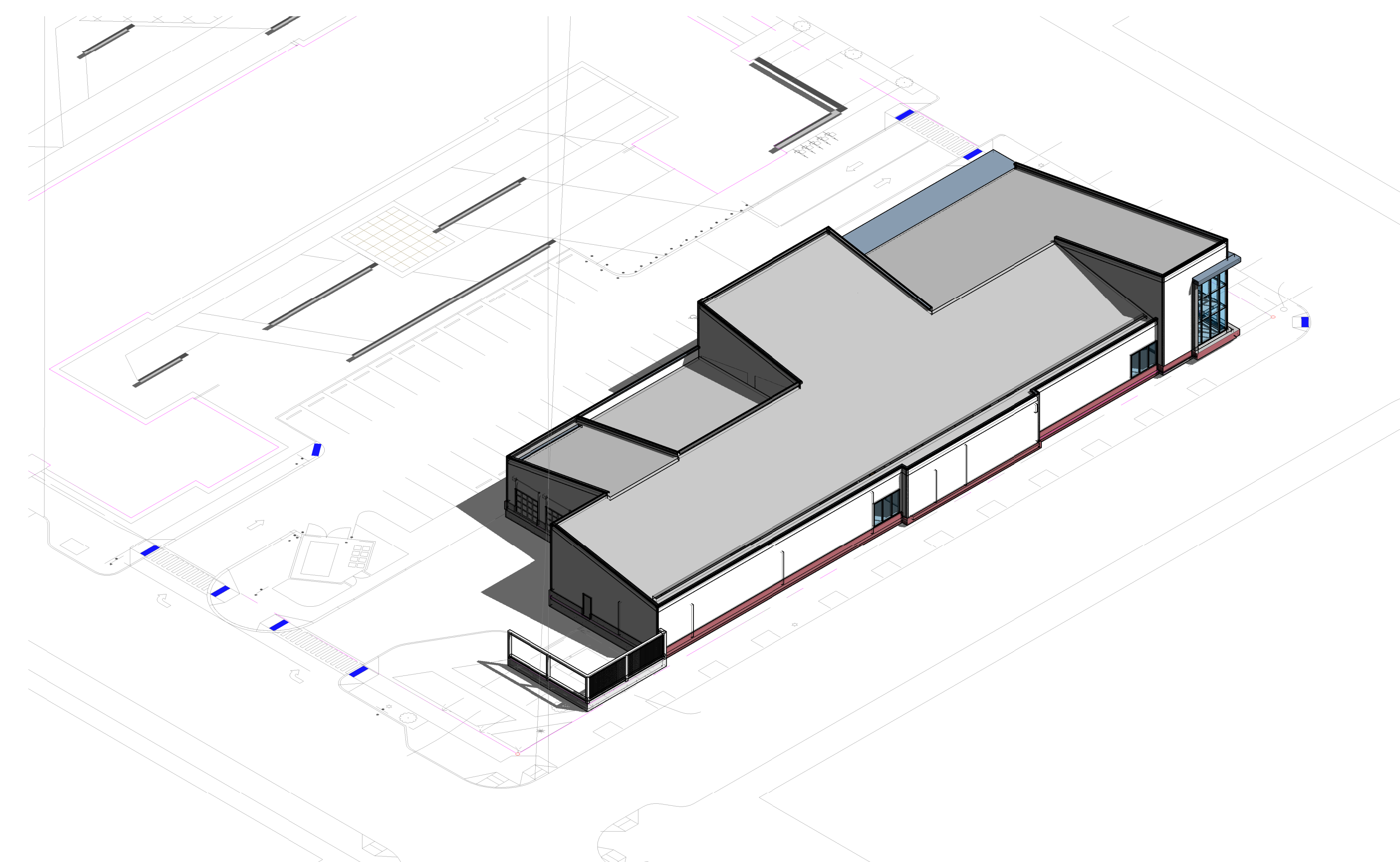
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FIGURES



1 Market Isometric View 1

2 Market Isometric View 2



3 Market Isometric View 3

4 Market Isometric View 4

201 ELLICOTT
STREET

MARKET
BUILDING



CANNONDESIGN

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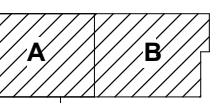
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Architecture
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FOR REFERENCE ONLY

Rev. Description Date



KEY PLAN

Drawing Title:

BUILDING ISOMETRICS

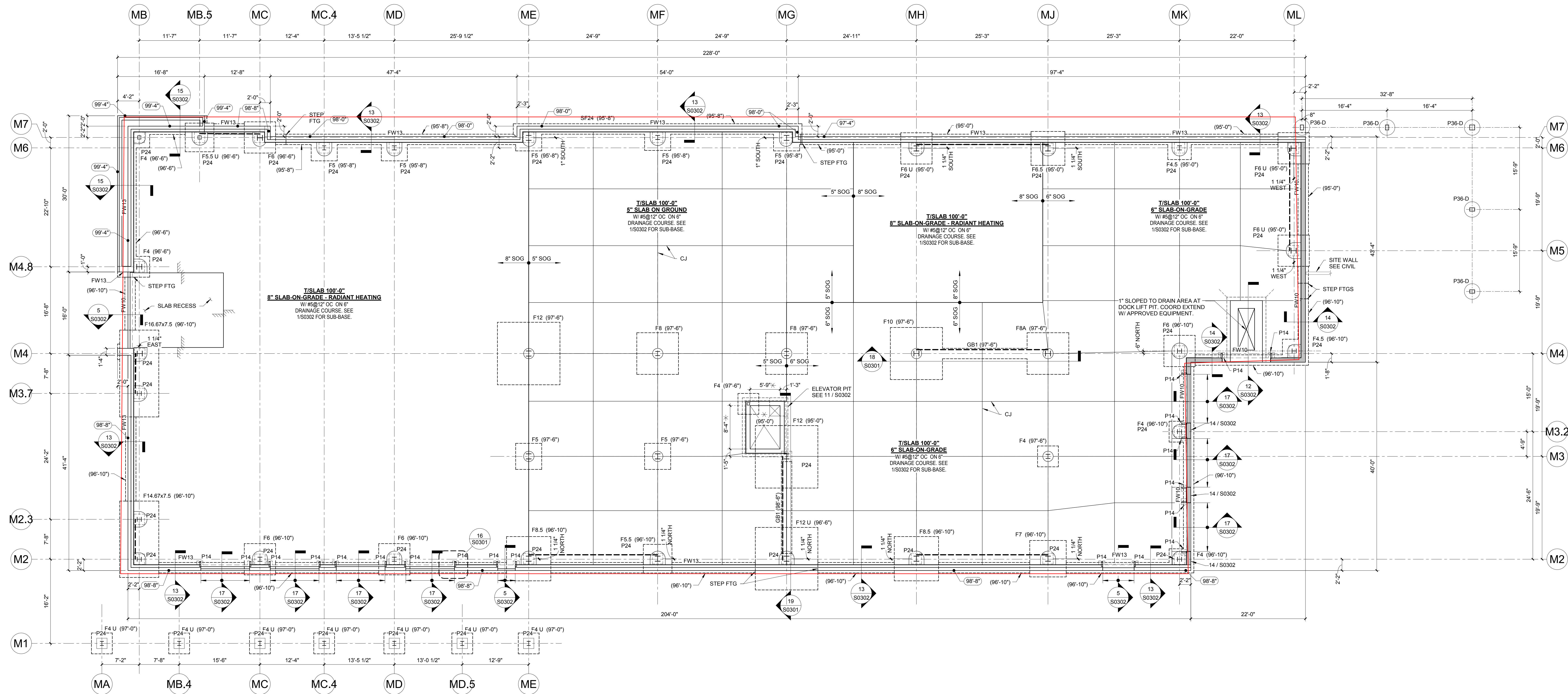
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Checked by: Checker

A0300

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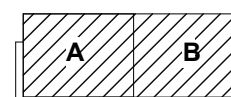
FIGURE 1



1 LEVEL 01 FOUNDATION PLAN
1/8" = 1'-0"

1. FOR GENERAL NOTES AND ABBREVIATIONS, SEE DRAWING S0001.
2. TOP OF SLAB ELEVATION AS NOTED. RECESSED SLABS MUST BE COORDINATED WITH APPROVED EQUIPMENT.
3. F INDICATES FOOTING MARKS. SEE SCHEDULE ON S0301 FOR FURTHER INFORMATION. TOP OF FOOTING ELEVATION AS NOTED.
4. P INDICATES PIER MARKS. SEE SCHEDULE ON S0301 FOR FURTHER INFORMATION. TOP OF PIER ELEVATION 96'-6" UNLESS NOTED. THIS SEE 16S0301 FOR TYPICAL P14.
5. FW INDICATES FOUNDATION FROST WALL. SEE SPECIFIC DETAILS FOR ADDITIONAL INFORMATION.

EARLY FOUNDATION AND UTILITY PACKAGE REVIEW			22 JUL 2019
Rev.	Description	Date	



KEY PLAN

Drawing Title:

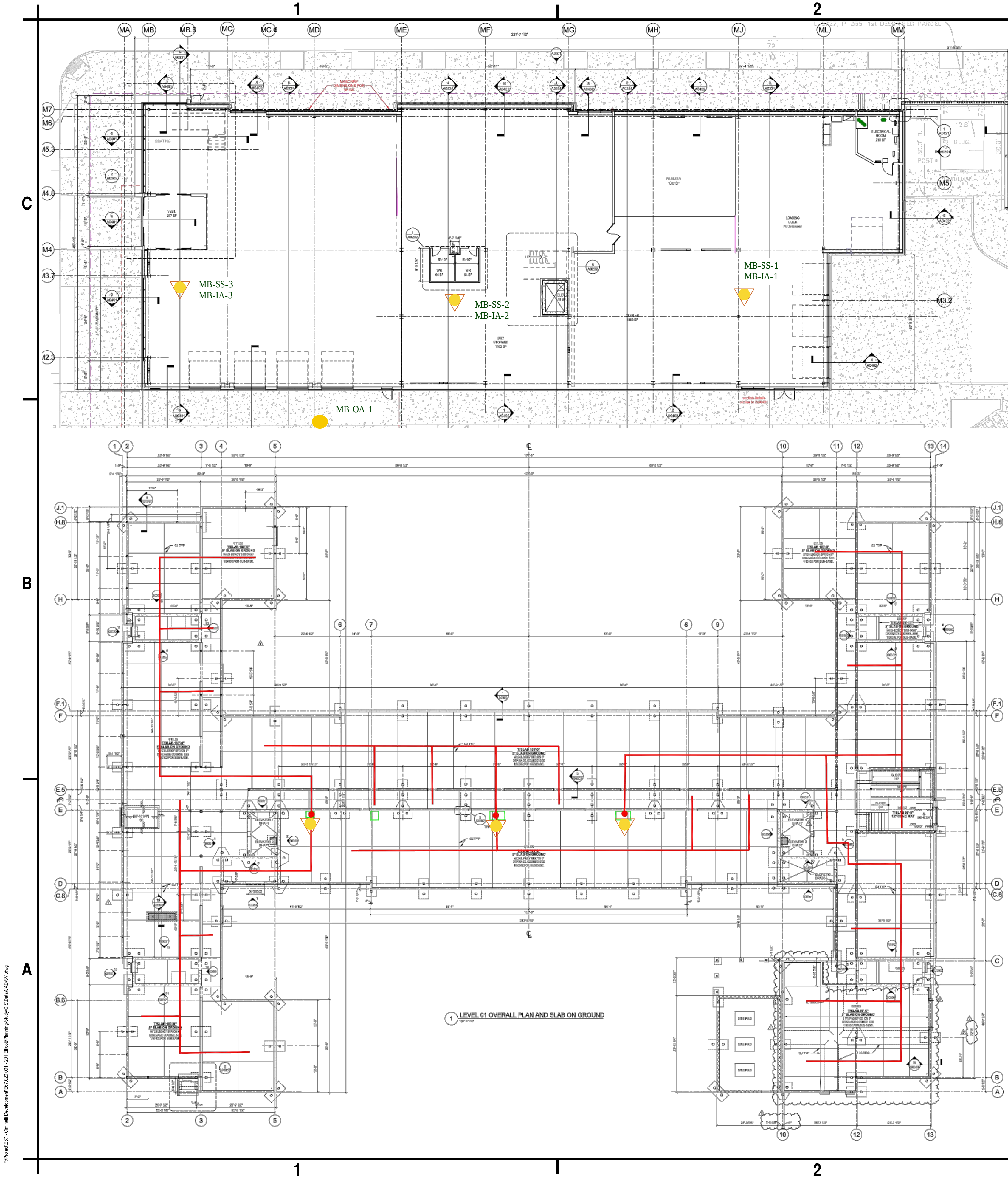
LEVEL 01 FOUNDATION PLAN

Project No.: 005117.03

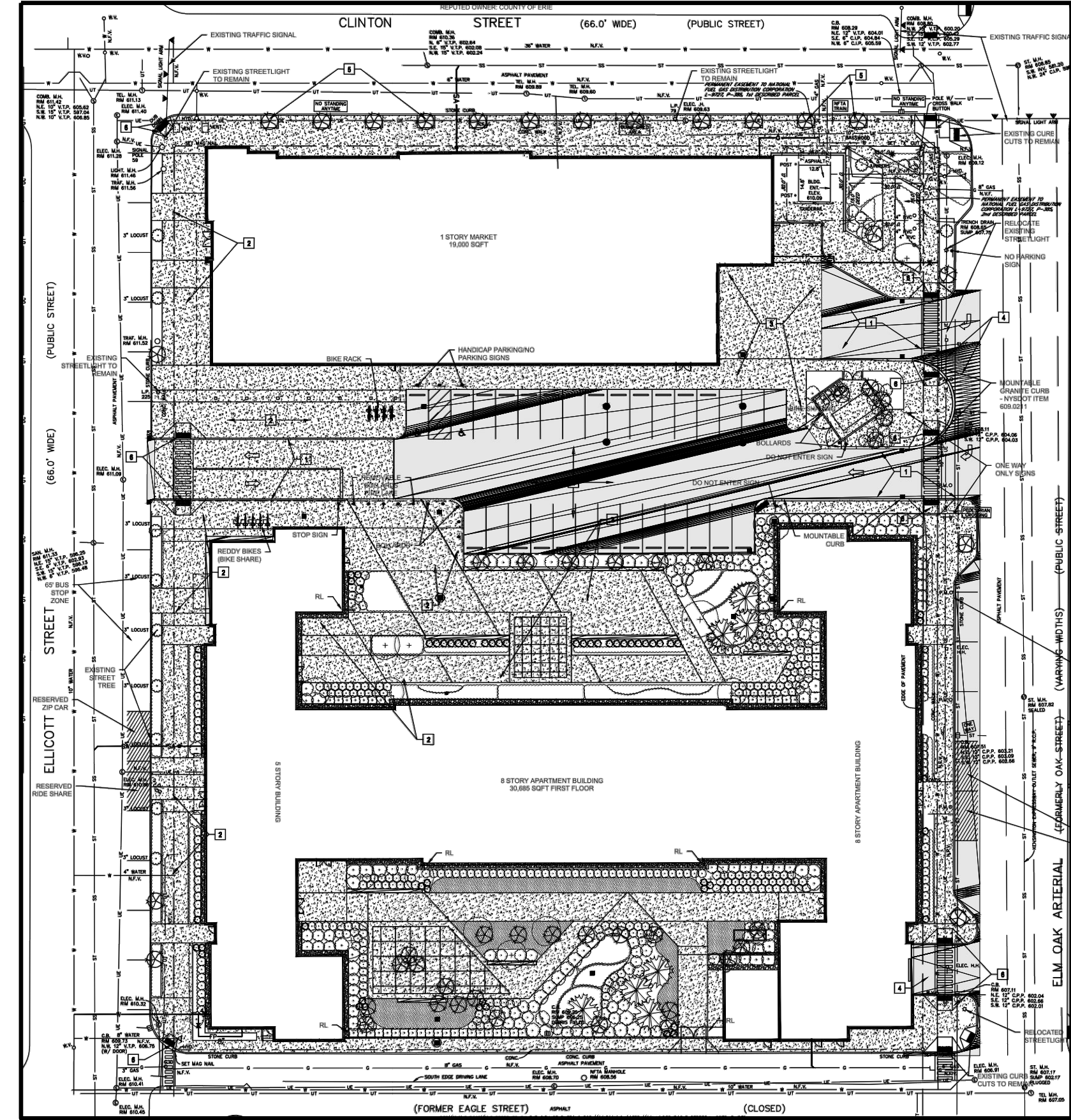
Checked by: RDC

S0101

FIGURE 2



OVERVIEW MAP



LEGEND

- SUB-SLAB / VENT PIPING SAMPLE LOCATION
- △ INDOOR AIR SAMPLE LOCATION

NOTES

- PASSIVE SUB-SLAB DEPRESSURIZATION DESIGN LAYOUT, BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC, NOVEMBER 2019.
- MARKET BUILDING - GROUND LEVEL PLAN - CORE AND SHELL, CANNON DESIGN, JULY 22, 2019.
- CIVIL SITE PLAN, CANNON DESIGN, JULY 22, 2019.



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201 ELLIOTT STREET SITE BROWNFIELD CLEANUP PROGRAM SITE NO. C915331 CITY OF BUFFALO, NY

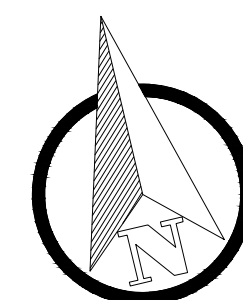
MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO:	E67.020.002	
DATE:	06/18/2020	
DRAWN BY:	C. MARTIN	
DESIGNED BY:	C. MARTIN	
CHECKED BY:	D. RIKER	
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

SOIL VAPOR INTRUSION SAMPLE LOCATIONS

FIGURE 3



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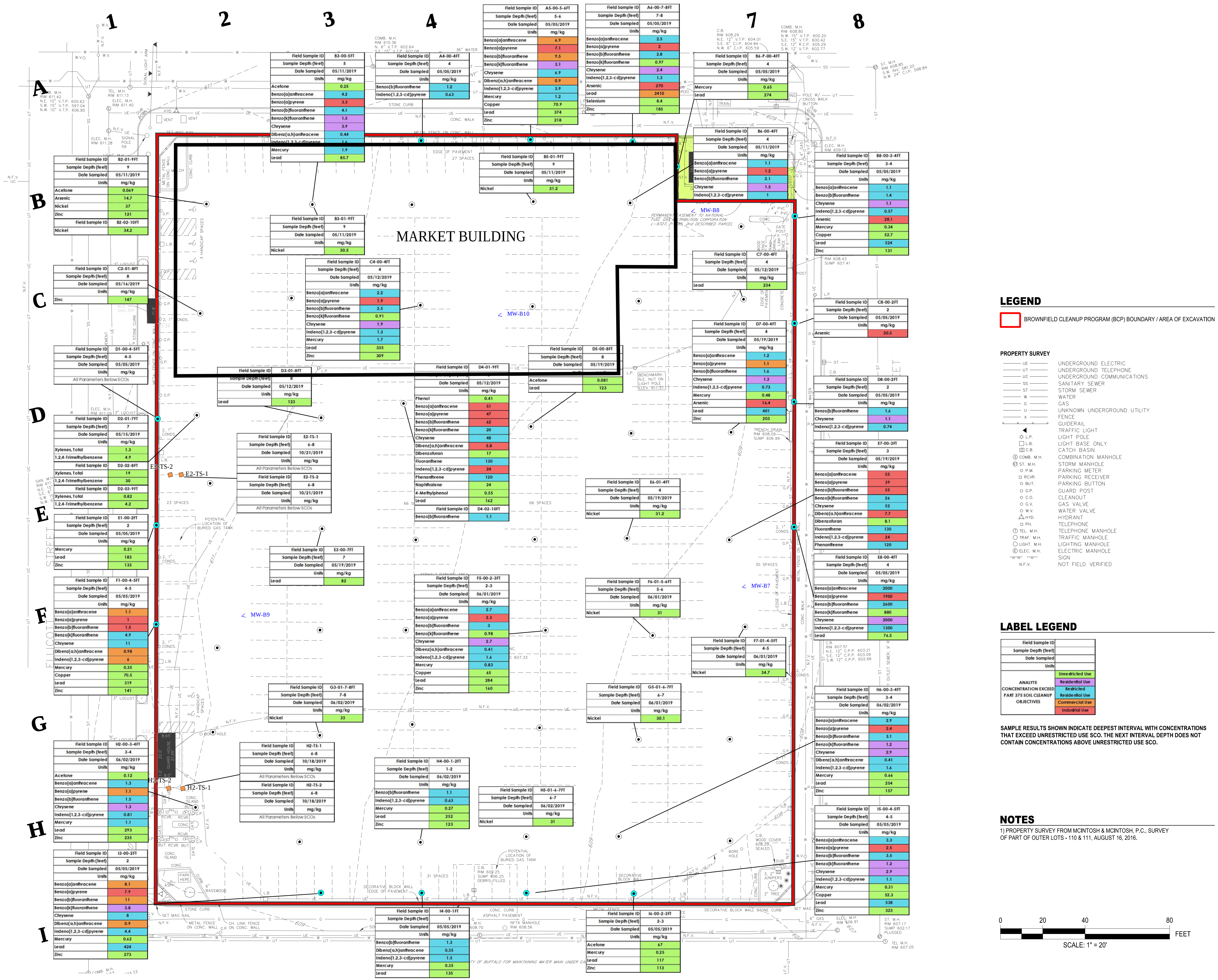


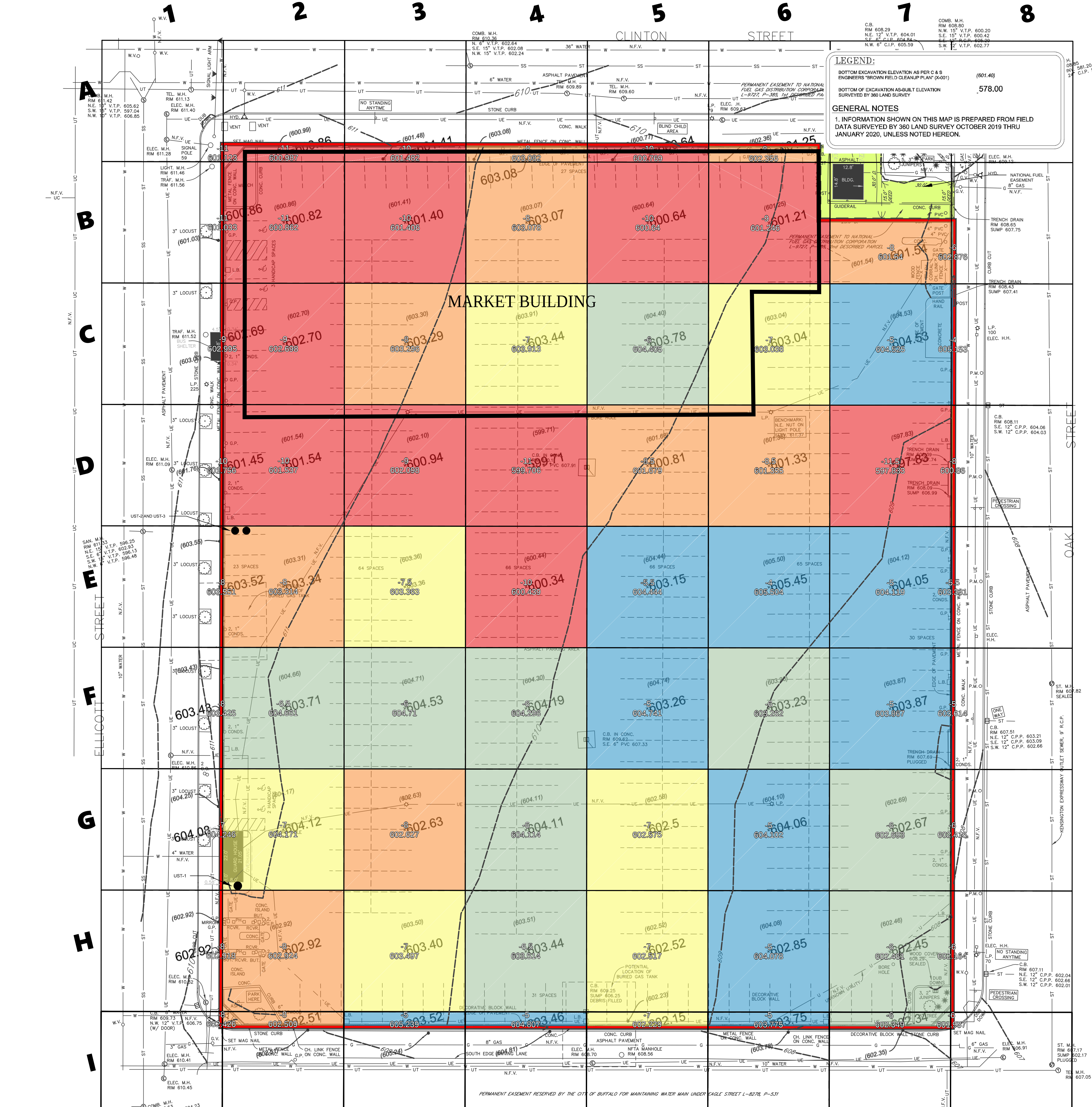
201 ELLIOTT STREET SITE
BROWNFIELD CLEANUP PROGRAM
SITE NO. C915331
CITY OF BUFFALO, NY

PROJECT NO: E67.020.002
DATE: 06/18/2019
DRAWN BY: C. MARTIN
DESIGNED BY: C. MARTIN
CHECKED BY: D. RIKER
NO ALTERATION PERMITTED HEREON EXCEPT AS
PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE
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CONFIRMATION
SAMPLING
LOCATIONS

FIGURE 4





Grid	Surface Elevation (feet)	Area (square feet)	Depth of Excavation (feet)	Bottom of Excavation (feet)	In-place Volume (cubic feet)	Potential Tonnage
A1	612.123	2,836	11	601.123	31,197	1,950
A2	611.987	365,478	11	600.987	402,023	25,126
A3	611.482	363,935	10	601.482	363,935	22,745
A4	611.082	362,396	8	603.082	289,917	18,198
A5	610.769	360,863	10	600.769	286,907	22,540
A6	610.356	325,675	8	602.356	260,400	16,238
B1	612.033	20,869	11	601.033	22,955	1,437
B2	611.862	2500.008	11	600.862	360,834	17,178
B3	611.406	2500.008	10	601.406	250,008	15,624
B4	611.078	2500.002	8	603.078	200,006	12,500
B5	610.640	2499.996	10	600.640	249,999	15,624
B6	610.246	2387.864	9	601.246	214,889	13,430
B7	609.540	1307.782	8	601.540	104,622	6,539
B8	608.876	32,600	6	602.876	19,599	1,225
C1	611.995	23,485	9	602.995	21,361	1,320
C2	611.698	2500.006	9	602.698	22,500	1,406
C3	611.296	2499.996	8	603.296	19,999	1,249
C4	610.913	2499.996	7	603.913	17,499	1,093
C5	610.405	2500.002	6	604.405	15,000	937
C6	610.038	2500.002	7	603.038	17,500	1,093
C7	609.525	2499.996	5	604.525	12,499	781
C8	609.153	59,443	4	605.153	23,772	1,481
D1	611.756	26,091	10	601.756	26,090	1,637
D2	611.537	2500.002	10	601.537	25,000	1,562
D3	611.098	2499.996	9	602.098	22,499	1,406
D4	610.706	2499.996	11	600.706	27,499	1,718
D5	610.179	2500.002	8.5	601.679	21,250	1,328
D6	609.855	2500.002	8.5	601.355	21,250	1,328
D7	609.333	2499.996	11.5	597.833	28,749	1,796
D8	608.860	55,605	8	600.860	44,840	2,702
E1	611.551	28,713	8	603.551	22,703	1,436
E2	611.314	2500.002	8	603.314	20,000	1,250
E3	610.863	2499.996	7.5	603.363	18,749	1,171
E4	610.439	2500.002	10	600.439	25,000	1,562
E5	609.944	2499.996	5.5	604.444	13,749	859
E6	609.504	2499.996	4	605.504	9,999	624
E7	609.119	2500.008	5	604.119	12,500	781
E8	608.881	51,766	5.5	603.381	28,712	1,794
F1	611.425	31,327	8	603.425	25,014	1,563
F2	611.161	2499.996	6.5	604.661	16,249	1,015
F3	610.710	2500.008	6	604.710	15,000	937
F4	610.296	2500.006	6	604.296	15,000	937
F5	609.741	2500.002	5	604.741	12,500	781
F6	609.262	2500.002	6	603.262	15,000	937
F7	608.867	2499.996	5	603.867	12,499	781
F8	608.614	47,936	5	603.614	23,682	1,490
G1	611.246	33,935	7	604.246	23,744	1,487
G2	611.171	2500.002	7	604.171	17,500	1,093
G3	610.627	2499.996	8	602.627	19,999	1,249
G4	610.114	2499.996	6	604.114	14,999	937
G5	609.575	2499.996	7	602.575	17,499	1,093
G6	609.102	2500.012	5	604.102	12,500	781
G7	608.693	2499.996	6	602.693	14,999	937
G8	608.416	44,106	6	602.416	26,438	1,654
H1	610.918	36,551	8	602.918	29,240	1,826
H2	610.924	2500.012	8	602.924	20,000	1,250
H3	610.467	2499.996	7	603.467	17,499	1,093
H4	610.014	2499.996	6.5	603.514	16,249	1,015
H5	609.517	2499.996	7	602.517	17,499	1,093
H6	609.078	2500.002	5	604.078	12,500	781
H7	608.461	2500.002	6	602.461	15,000	937
H8	608.164	40,277	6	602.164	24,064	1,504
I1	610.426	4,773	8	602.426	3,813	236
I2	610.509	313,871	8	602.509	251,969	15,936
I3	610.239	314,049	5	605.239	157,047	9,814
I4	609.807	314,215	5	604.807	157,073	9,819
I5	609.229	314,376	7	602.229	220,635	13,754
I6	608.775	314,539	5	603.775	157,694	9,823
I7	608.349	314,705	6	602.349	188,829	11,804
I8	607.937	4,801	6	601.937	28,805	1,800

LEGEND

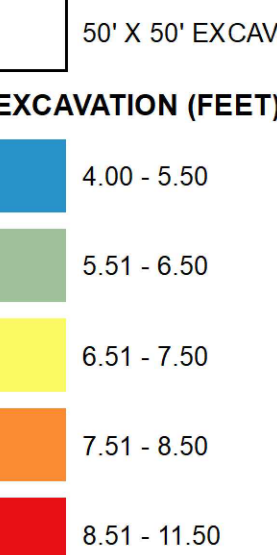
BROWNFIELD CLEANUP PROGRAM (BCP) BOUNDARY / AREA OF EXCAVATION

- MATERIAL CONSISTS OF NON-HAZARDOUS CONTAMINATED FILL MATERIAL AND IMPACTED NATIVE SOIL.
- EXCAVATION BASED ON IN-PLACE VOLUMES OF CONTAMINATED MATERIAL. POTENTIAL VOLUME OF RECYCLABLE CONCRETE, ASPHALT OR BRICK IS NOT INCLUDED.
- ASSUMES A TONNAGE CONVERSION FACTOR OF 125 PER CUBIC FOOT OR 1.75 PER CUBIC YARD.

TOTAL CUBIC FEET = 770,384.019
POTENTIAL TONNAGE = 49,887.950

TOTAL CUBIC YARDS = 28,533.083
POTENTIAL TONNAGE = 49,932.896

FINAL TONNAGE = 50,971



NOTES

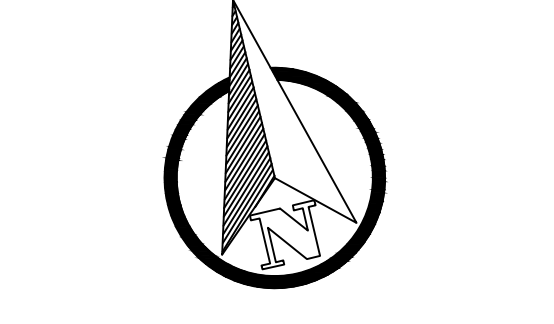
1) PROPERTY SURVEY FROM MCINTOSH & MCINTOSH, P.C., SURVEY OF PART OF OUTER LOTS - 110 & 111, AUGUST 16, 2016.

0 20 40 80 FEET

SCALE: 1" = 20'



C&S Engineers, Inc.
141 Elm Street
Buffalo, New York 14203
Phone: 716-847-1630
Fax: 716-847-1454
www.cscos.com



201 ELLIOTT STREET SITE
BROWNFIELD CLEANUP PROGRAM
SITE NO. C915331
CITY OF BUFFALO, NY

PROJECT NO:	E67.020.002
DATE:	05/07/2020
DRAWN BY:	C. MARTIN
DESIGNED BY:	C. MARTIN
CHECKED BY:	D. RIKER

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

SURVEY

CONTAMINATED MATERIAL CUT

FIGURE 5

WEATHER DATA

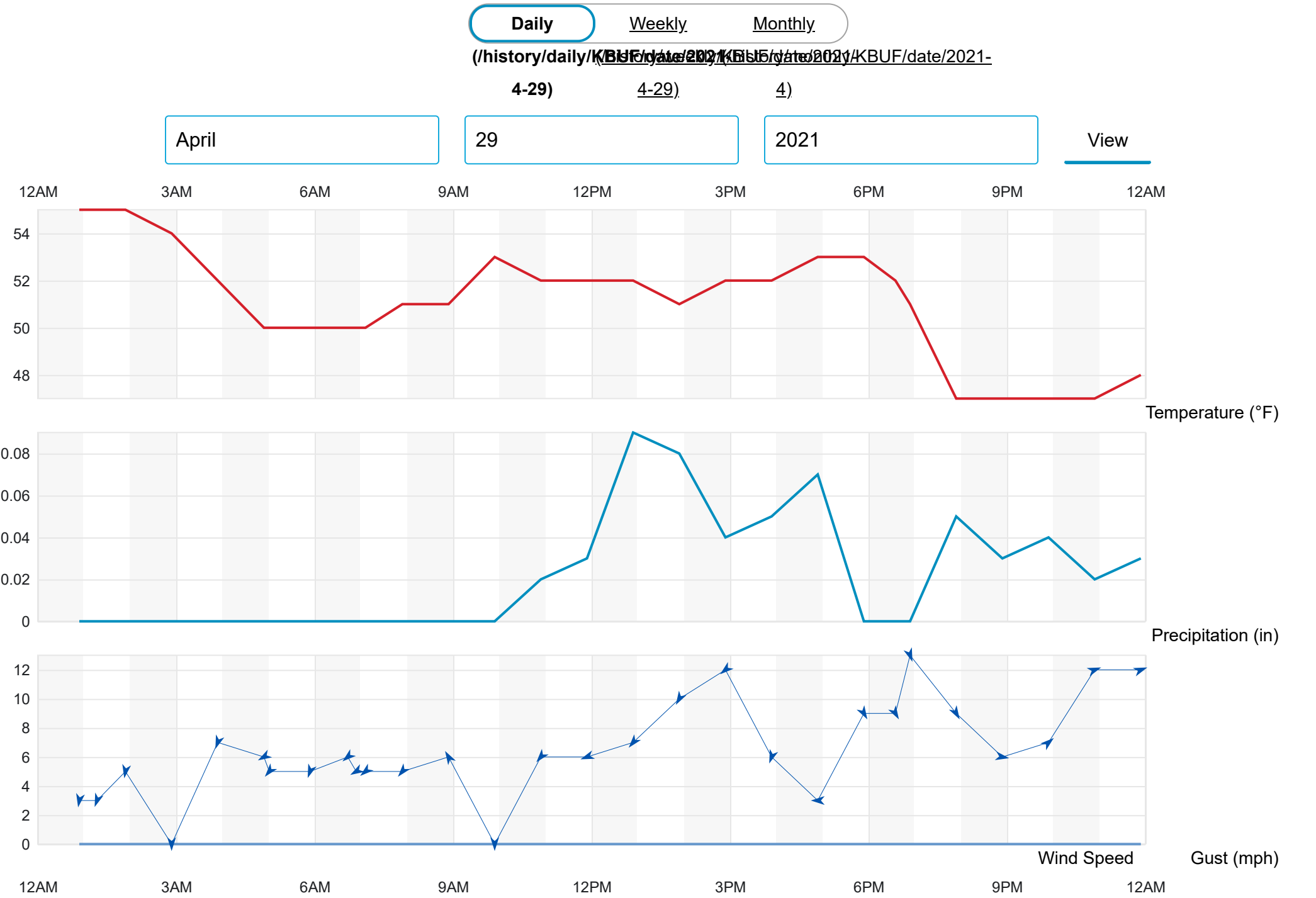
42.91 °N, 78.76 °W

South Cheektowaga, NY Weather History★🏠

☁️ 46° BUFFALO NIAGARA INTERNATIONAL AIRPORT STATION (/DASHBOARD/PWS/KNYBUFFA119?CM_VEN=LOCALWX_PWSDASH) | CHANGE ✓

HISTORY (/HISTORY/DAILY/US/NY/SOUTH-CHEEKTOWAGA/KBUF)

- TODAY (/WEATHER/KBUF)
- HOURLY (/HOURLY/KBUF)
- 10-DAY (/FORECAST/KBUF)
- CALENDAR (/CALENDAR/US/NY/SOUTH-CHEEKTOWAGA/KBUF)
- HISTORY (/HISTORY/DAILY/US/NY/SOUTH-CHEEKTOWAGA/KBUF)
- WUNDERMAP (/WUNDERMAP?LAT=42.91&LON=-78.76)



Summary

Temperature (° F)	Actual	Historic Avg.	Record	▲
High Temp	55	61	81	
Low Temp	47	42	28	
Day Average Temp	51.1	51	-	
Precipitation (Inches)	Actual	Historic Avg.	Record	▲
Precipitation (past 24 hours from 11:54:00)	0.07	0.10	-	

Temperature (° F)	Actual	Historic Avg.	Record	▲
Dew Point (° F)	Actual	Historic Avg.	Record	▲
Dew Point	47.72	-	-	
High	50	-	-	
Low	44	-	-	
Average	47.72	-	-	
Wind (MPH)	Actual	Historic Avg.	Record	▲
Max Wind Speed	13	-	-	
Visibility	10	-	-	
Sea Level Pressure (Hg)	Actual	Historic Avg.	Record	▲
Sea Level Pressure	29.02	-	-	
Astronomy	Day Length	Rise	Set	▲
Actual Time	14h 1m	6:12 AM	8:14 PM	
Civil Twilight		5:41 AM	8:45 PM	
Nautical Twilight		5:04 AM	9:22 PM	
Astronomical Twilight		4:22 AM	10:04 PM	
Moon: waning gibbous		11:48 PM	7:58 AM	

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:54 AM	55 °F	49 °F	80 %	N	3 mph	0 mph	29.02 in	0.0 in	Cloudy
1:17 AM	55 °F	49 °F	80 %	NNE	3 mph	0 mph	29.02 in	0.0 in	Cloudy
1:54 AM	55 °F	50 °F	83 %	N	5 mph	0 mph	29.01 in	0.0 in	Cloudy
2:54 AM	54 °F	50 °F	86 %	CALM	0 mph	0 mph	29.01 in	0.0 in	Cloudy
3:54 AM	52 °F	49 °F	89 %	NNE	7 mph	0 mph	29.01 in	0.0 in	Cloudy
4:54 AM	50 °F	47 °F	89 %	ENE	6 mph	0 mph	28.99 in	0.0 in	Cloudy
5:01 AM	50 °F	47 °F	89 %	NE	5 mph	0 mph	28.99 in	0.0 in	N/A
5:54 AM	50 °F	46 °F	86 %	NNE	5 mph	0 mph	29.01 in	0.0 in	Cloudy
6:43 AM	50 °F	46 °F	86 %	NE	6 mph	0 mph	28.99 in	0.0 in	Cloudy
6:54 AM	50 °F	46 °F	86 %	ENE	5 mph	0 mph	28.99 in	0.0 in	Cloudy
7:06 AM	50 °F	46 °F	86 %	NE	5 mph	0 mph	28.99 in	0.0 in	Cloudy
7:54 AM	51 °F	46 °F	83 %	NE	5 mph	0 mph	29.01 in	0.0 in	Light Rain
8:54 AM	51 °F	47 °F	86 %	SSE	6 mph	0 mph	28.97 in	0.0 in	Light Rain
9:54 AM	53 °F	49 °F	86 %	CALM	0 mph	0 mph	28.97 in	0.0 in	Light Rain
10:54 AM	52 °F	49 °F	89 %	NE	6 mph	0 mph	28.94 in	0.0 in	Light Rain
11:54 AM	52 °F	49 °F	89 %	ENE	6 mph	0 mph	28.91 in	0.0 in	Light Rain
12:54 PM	52 °F	49 °F	89 %	NE	7 mph	0 mph	28.90 in	0.1 in	Rain
1:54 PM	51 °F	48 °F	89 %	NNE	10 mph	0 mph	28.86 in	0.1 in	Rain
2:54 PM	52 °F	49 °F	89 %	NE	12 mph	0 mph	28.83 in	0.0 in	Light Rain
3:54 PM	52 °F	49 °F	89 %	NNE	6 mph	0 mph	28.82 in	0.1 in	Rain
4:54 PM	53 °F	50 °F	89 %	E	3 mph	0 mph	28.81 in	0.1 in	Light Rain
5:54 PM	53 °F	50 °F	89 %	NNW	9 mph	0 mph	28.81 in	0.0 in	Cloudy
6:35 PM	52 °F	50 °F	93 %	NNW	9 mph	0 mph	28.83 in	0.0 in	Light Rain
6:54 PM	51 °F	49 °F	92 %	NNW	13 mph	0 mph	28.83 in	0.0 in	Light Rain
7:54 PM	47 °F	44 °F	90 %	NNW	9 mph	0 mph	28.86 in	0.1 in	Light Rain
8:54 PM	47 °F	45 °F	93 %	W	6 mph	0 mph	28.87 in	0.0 in	Light Rain

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
9:54 PM	47 °F	45 °F	93 %	SW	7 mph	0 mph	28.86 in	0.0 in	Light Rain
10:54 PM	47 °F	45 °F	93 %	WSW	12 mph	0 mph	28.86 in	0.0 in	Light Rain
11:54 PM	48 °F	46 °F	93 %	WSW	12 mph	0 mph	28.85 in	0.0 in	Light Rain

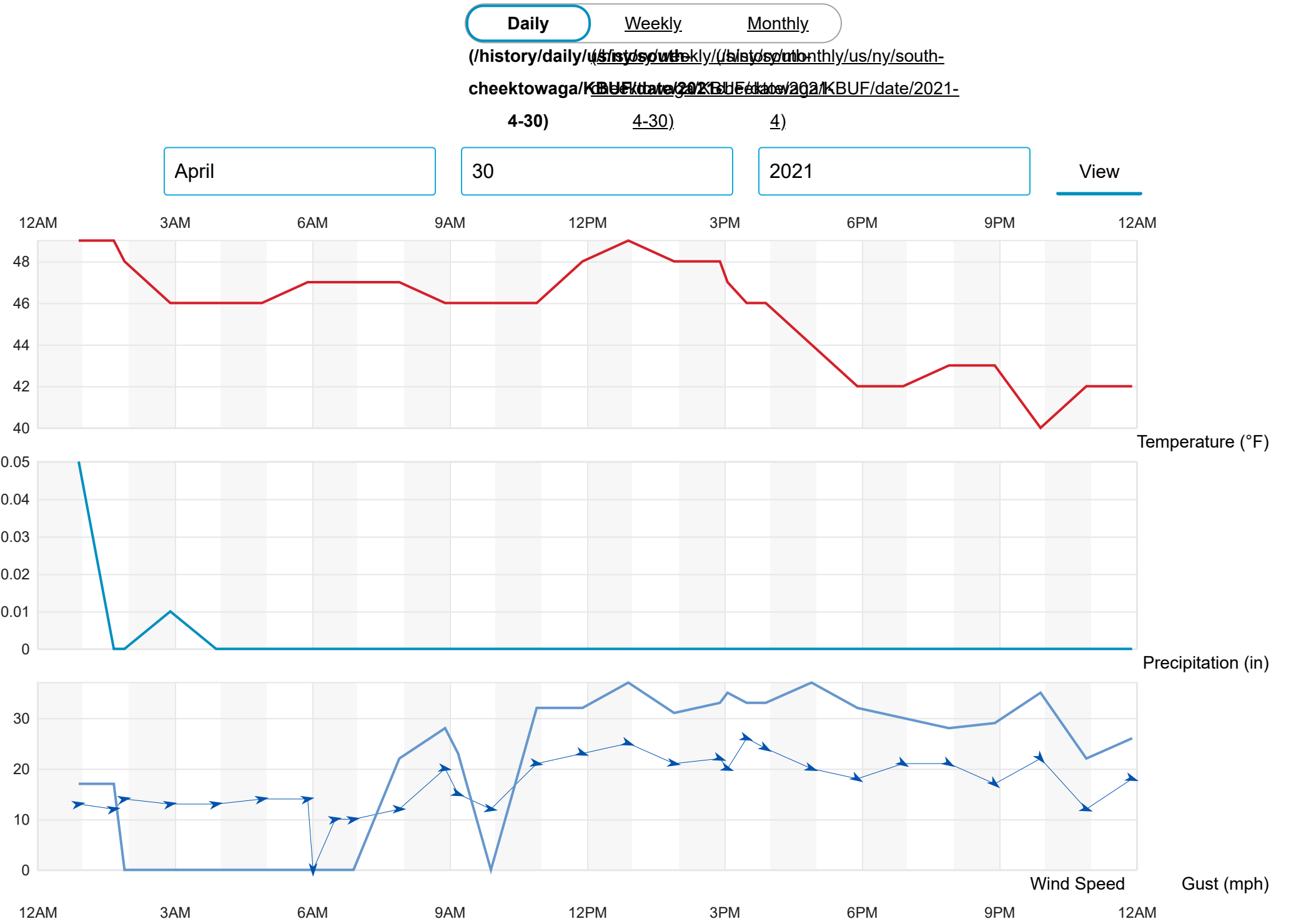
42.91 °N, 78.76 °W

South Cheektowaga, NY Weather History★🏠

☁️ **54°** **BUFFALO NIAGARA INTERNATIONAL AIRPORT STATION** (/DASHBOARD/PWS/KNYBUFFA119?CM_VEN=LOCALWX_PWSDASH) | [CHANGE](#) ✓

[HISTORY](#) (/HISTORY/DAILY/US/NY/SOUTH-CHEEKTOWAGA/KBUF)

- [TODAY](#) (/WEATHER/US/NY/SOUTH-CHEEKTOWAGA/KBUF)
- [HOURLY](#) (/HOURLY/US/NY/SOUTH-CHEEKTOWAGA/KBUF)
- [10-DAY](#) (/FORECAST/US/NY/SOUTH-CHEEKTOWAGA/KBUF)
- [CALENDAR](#) (/CALENDAR/US/NY/SOUTH-CHEEKTOWAGA/KBUF)
- [HISTORY](#) (/HISTORY/DAILY/US/NY/SOUTH-CHEEKTOWAGA/KBUF)
- [WUNDERMAP](#) (/WUNDERMAP?LAT=42.91&LON=-78.76)



Summary

Temperature (° F)	Actual	Historic Avg.	Record	▲
High Temp	49	61	84	
Low Temp	40	42	28	
Day Average Temp	45.77	52	-	
Precipitation (Inches)	Actual	Historic Avg.	Record	▲
Precipitation (past 24 hours from 11:54:00)	0.61	0.10	-	

Temperature (° F)	Actual	Historic Avg.	Record	▲
Dew Point (° F)	Actual	Historic Avg.	Record	▲
Dew Point	36.57	-	-	
High	47	-	-	
Low	26	-	-	
Average	36.57	-	-	
Wind (MPH)	Actual	Historic Avg.	Record	▲
Max Wind Speed	26	-	-	
Visibility	10	-	-	
Sea Level Pressure (Hg)	Actual	Historic Avg.	Record	▲
Sea Level Pressure	29.16	-	-	
Astronomy	Day Length	Rise	Set	▲
Actual Time	14h 4m	6:11 AM	8:15 PM	
Civil Twilight		5:40 AM	8:46 PM	
Nautical Twilight		5:02 AM	9:24 PM	
Astronomical Twilight		4:20 AM	10:05 PM	
Moon: waning gibbous		-	8:47 AM	

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:54 AM	49 °F	47 °F	93 %	W	13 mph	17 mph	28.84 in	0.1 in	Light Rain
1:40 AM	49 °F	45 °F	86 %	W	12 mph	17 mph	28.85 in	0.0 in	Cloudy
1:54 AM	48 °F	45 °F	89 %	W	14 mph	0 mph	28.85 in	0.0 in	Cloudy
2:54 AM	46 °F	44 °F	93 %	W	13 mph	0 mph	28.86 in	0.0 in	Cloudy
3:54 AM	46 °F	43 °F	89 %	W	13 mph	0 mph	28.85 in	0.0 in	Cloudy
4:54 AM	46 °F	43 °F	89 %	W	14 mph	0 mph	28.85 in	0.0 in	Cloudy
5:54 AM	47 °F	43 °F	86 %	W	14 mph	0 mph	28.85 in	0.0 in	Cloudy
6:01 AM	47 °F	43 °F	86 %		0 mph	0 mph	28.85 in	0.0 in	N/A
6:30 AM	47 °F	42 °F	83 %	W	10 mph	0 mph	28.85 in	0.0 in	Mostly Cloudy
6:54 AM	47 °F	42 °F	83 %	W	10 mph	0 mph	28.85 in	0.0 in	Mostly Cloudy
7:54 AM	47 °F	41 °F	80 %	W	12 mph	22 mph	28.85 in	0.0 in	Mostly Cloudy
8:54 AM	46 °F	40 °F	79 %	W	20 mph	28 mph	28.88 in	0.0 in	Mostly Cloudy
9:11 AM	46 °F	40 °F	79 %	WNW	15 mph	23 mph	28.89 in	0.0 in	Mostly Cloudy
9:54 AM	46 °F	40 °F	79 %	W	12 mph	0 mph	28.89 in	0.0 in	Cloudy
10:54 AM	46 °F	38 °F	73 %	W	21 mph	32 mph	28.91 in	0.0 in	Cloudy / Windy
11:54 AM	48 °F	37 °F	66 %	WNW	23 mph	32 mph	28.91 in	0.0 in	Mostly Cloudy / Windy
12:54 PM	49 °F	36 °F	61 %	WNW	25 mph	37 mph	28.92 in	0.0 in	Mostly Cloudy / Windy
1:54 PM	48 °F	33 °F	56 %	W	21 mph	31 mph	28.95 in	0.0 in	Mostly Cloudy / Windy
2:54 PM	48 °F	32 °F	54 %	WNW	22 mph	33 mph	28.97 in	0.0 in	Mostly Cloudy / Windy
3:04 PM	47 °F	33 °F	59 %	WNW	20 mph	35 mph	28.97 in	0.0 in	Mostly Cloudy
3:29 PM	46 °F	31 °F	56 %	WNW	26 mph	33 mph	28.98 in	0.0 in	Mostly Cloudy / Windy
3:54 PM	46 °F	30 °F	54 %	WNW	24 mph	33 mph	28.99 in	0.0 in	Mostly Cloudy / Windy
4:54 PM	44 °F	30 °F	58 %	WNW	20 mph	37 mph	29.03 in	0.0 in	Mostly Cloudy
5:54 PM	42 °F	30 °F	62 %	WNW	18 mph	32 mph	29.06 in	0.0 in	Cloudy
6:54 PM	42 °F	29 °F	60 %	WNW	21 mph	30 mph	29.08 in	0.0 in	Cloudy / Windy
7:54 PM	43 °F	27 °F	53 %	WNW	21 mph	28 mph	29.09 in	0.0 in	Cloudy / Windy

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
8:54 PM	43 °F	26 °F	51 %	NW	17 mph	29 mph	29.13 in	0.0 in	Cloudy
9:54 PM	40 °F	30 °F	68 %	NW	22 mph	35 mph	29.16 in	0.0 in	Light Rain / Windy
10:54 PM	42 °F	29 °F	60 %	WNW	12 mph	22 mph	29.15 in	0.0 in	Cloudy
11:54 PM	42 °F	28 °F	58 %	WNW	18 mph	26 mph	29.16 in	0.0 in	Cloudy

DATA SUMMARY

TABLE 1

SUB-SLAB AND INDOOR AIR RESULTS
BCP SITE C915331



SAMPLE ID: COLLECTION DATE: SAMPLE MATRIX:			MB-SS-1 4/30/2021 SS			MB-IA-1 4/30/2021 AIR			MB-SS-2 4/30/2021 SS			MB-IA-2 4/30/2021 AIR			MB-SS-3 4/30/2021 SS			MB-IA-3 4/30/2021 AIR			MB-OA-1 4/30/2021 AIR		
	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL		
VOLATILE ORGANICS																							
Dichlorodifluoromethane	ND		5.34	1.9		0.989	ND		2.47	1.84		0.989	ND		1.98	1.87		0.989	2.03		0.989		
Chloromethane	ND		2.23	1.07		0.413	ND		1.03	1.07		0.413	ND		0.826	1.13		0.413	1.05		0.413		
Freon-114	ND		7.55	ND		1.4	ND		3.49	ND		1.4	ND		2.8	ND		1.4	ND		1.4		
Vinyl chloride	ND		2.76	ND		0.051	ND		1.28	ND		0.051	ND		1.02	ND		0.051	ND		0.051		
1,3-Butadiene	ND		2.39	ND		0.442	ND		1.11	ND		0.442	1.64		0.885	ND		0.442	ND		0.442		
Bromomethane	ND		4.19	ND		0.777	ND		1.94	ND		0.777	ND		1.55	ND		0.777	ND		0.777		
Chloroethane	ND		2.85	ND		0.528	ND		1.32	ND		0.528	ND		1.06	ND		0.528	ND		0.528		
Ethanol	ND		50.7	43		9.42	29.6		23.6	37.7		9.42	28.6		18.8	33.5		9.42	11.9		9.42		
Vinyl bromide	ND		4.72	ND		0.874	ND		2.19	ND		0.874	ND		1.75	ND		0.874	ND		0.874		
Acetone	127		12.8	26.6		2.38	254		5.94	16.8		2.38	257		4.75	9.41		2.38	67.5		2.38		
Trichlorofluoromethane	ND		6.07	ND		1.12	ND		2.81	1.16		1.12	ND		2.25	ND		1.12	ND		1.12		
Isopropanol	ND		6.61	3.39		1.23	4.82		3.07	3.07		1.23	4.74		2.46	4.15		1.23	ND		1.23		
1,1-Dichloroethene	ND		4.28	ND		0.079	ND		1.98	ND		0.079	ND		1.59	ND		0.079	ND		0.079		
Tertiary butyl Alcohol	15.6		8.15	3.46		1.52	7.79		3.79	3.43		1.52	8.12		3.03	2.63		1.52	2.15		1.52		
Methylene chloride	ND		9.35	ND		1.74	ND		4.34	ND		1.74	ND		3.47	ND		1.74	ND		1.74		
3-Chloropropene	ND		3.38	ND		0.626	ND		1.57	ND		0.626	ND		1.25	ND		0.626	ND		0.626		
Carbon disulfide	5.11		3.36	ND		0.623	3.92		1.56	ND		0.623	3.07		1.25	ND		0.623	ND		0.623		
Freon-113	ND		8.28	ND		1.53	ND		3.83	ND		1.53	ND		3.07	ND		1.53	ND		1.53		
trans-1,2-Dichloroethene	ND		4.28	ND		0.793	ND		1.98	ND		0.793	ND		1.59	ND		0.793	ND		0.793		
1,1-Dichloroethane	ND		4.37	ND		0.809	ND		2.02	ND		0.809	ND		1.62	ND		0.809	ND		0.809		
Methyl tert butyl ether	ND		3.89	ND		0.721	ND		1.8	ND		0.721	ND		1.44	ND		0.721	ND		0.721		
2-Butanone	ND		7.93	5.63		1.47	7.96		3.69	3.04		1.47	13.1		2.95	2.32		1.47	120		1.47		
cis-1,2-Dichloroethene	ND		4.28	0.155		0.079	ND		1.98	ND		0.079	ND		1.59	ND		0.079	ND		0.079		
Ethyl Acetate	ND		9.69	ND		1.8	ND		4.5	ND		1.8	ND		3.6	5.12		1.8	ND		1.8		
Chloroform	ND		5.27	ND		0.977	ND		2.44	ND		0.977	ND		1.95	ND		0.977	ND		0.977		
Tetrahydrofuran	ND		7.93	14.3		1.47	4.54		3.69	5.19		1.47	ND		2.95	1.99		1.47	ND		1.47		
1,2-Dichloroethane	ND		4.37	ND		0.809	ND		2.02	ND		0.809	ND		1.62	ND		0.809	ND		0.809		
n-Hexane	715		3.81	3.91		0.705	381		1.76	3.06		0.705	287		1.41	2.05		0.705	0.825		0.705		
1,1,1-Trichloroethane	ND		5.89	ND		0.109	ND		2.73	ND		0.109	ND		2.18	ND		0.109	ND		0.109		
Benzene	14.4		3.45	0.879		0.639	14.5		1.6	0.939		0.639	12.4		1.28	0.965		0.639	0.658		0.639		
Carbon tetrachloride	ND		6.79	0.352		0.126	ND		3.15	0.352		0.126	ND		2.52	0.352		0.126	0.365		0.126		
Cyclohexane	940		3.72	2.66		0.688	291		1.72	1.56		0.688	348		1.38	1		0.688	ND		0.688		
1,2-Dichloropropane	ND		4.99	ND		0.924	ND		2.31	ND		0.924	ND		1.85	ND		0.924	ND		0.924		
Bromodichloromethane	ND		7.24	ND		1.34	ND		3.35	ND		1.34	ND		2.68	ND		1.34	ND		1.34		
1,4-Dioxane	ND		3.89	0.926		0.721	ND		1.8	ND		0.721	ND		1.44	ND		0.721	ND		0.721		
Trichloroethene	ND		5.8	ND		0.107	ND		2.69	ND		0.107	ND		2.15	ND		0.107	ND		0.107		
2,2,4-Trimethylpentane	ND		5.04	ND		0.934	ND		2.34	ND		0.934	ND		1.87	ND		0.934	ND		0.934		
Heptane	721		4.43	6.19		0.82	504		2.05	4.04		0.82	371		1.64	3.13		0.82	1.11		0.82		
cis-1,3-Dichloropropene	ND		4.9	ND		0.908	ND		2.27	ND		0.908	ND		1.82	ND		0.908	ND		0.908		
4-Methyl-2-pentanone	ND		11	ND		2.05	ND		5.12	ND		2.05	ND		4.1	ND		2.05	ND		2.05		
trans-1,3-Dichloropropene	ND		4.9	ND		0.908	ND		2.27	ND		0.908	ND		1.82	ND		0.908	ND		0.908		
1,1,2-Trichloroethane	ND		5.89	ND		1.09	ND		2.73	ND		1.09	ND		2.18	ND		1.09	ND		1.09		
Toluene	71.6		4.07	22.6		0.754	67.5		1.88	23.2		0.754	53.5		1.51	20.7		0.754	9.04		0.754		
2-Hexanone	ND		4.43	ND		0.82	ND		2.05	ND		0.82	ND		1.64	ND		0.82	15.1		0.82		

TABLE 1

SUB-SLAB AND INDOOR AIR RESULTS
BCP SITE C915331



SAMPLE ID: COLLECTION DATE: SAMPLE MATRIX:	MB-SS-1 4/30/2021 SS			MB-IA-1 4/30/2021 AIR			MB-SS-2 4/30/2021 SS			MB-IA-2 4/30/2021 AIR			MB-SS-3 4/30/2021 SS			MB-IA-3 4/30/2021 AIR			MB-OA-1 4/30/2021 AIR		
	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL
Dibromochloromethane	ND		9.2	ND		1.7	ND		4.26	ND		1.7	ND		3.41	ND		1.7	ND		1.7
1,2-Dibromoethane	ND		8.3	ND		1.54	ND		3.84	ND		1.54	ND		3.07	ND		1.54	ND		1.54
Tetrachloroethene	16.7		7.32	8.07		0.136	15.5		3.39	8.61		0.136	14.9		2.71	11.1		0.136	5.37		0.136
Chlorobenzene	ND		4.97	ND		0.921	ND		2.3	ND		0.921	ND		1.84	ND		0.921	ND		0.921
Ethylbenzene	14.1		4.69	3.02		0.869	12.2		2.17	3.15		0.869	9.51		1.74	3.89		0.869	1.85		0.869
p/m-Xylene	42.2		9.34	14.2		1.74	36.5		4.34	15		1.74	30.8		3.47	18.2		1.74	8.69		1.74
Bromoform	ND		11.2	ND		2.07	ND		5.17	ND		2.07	ND		4.14	ND		2.07	ND		2.07
Styrene	ND		4.6	2.41		0.852	ND		2.13	3.1		0.852	1.87		1.7	1.89		0.852	ND		0.852
1,1,2,2-Tetrachloroethane	ND		7.42	ND		1.37	ND		3.43	ND		1.37	ND		2.75	ND		1.37	ND		1.37
o-Xylene	11.9		4.69	4.52		0.869	11.3		2.17	4.86		0.869	9.47		1.74	5.69		0.869	2.65		0.869
4-Ethyltoluene	ND		5.31	1.41		0.983	ND		2.46	1.6		0.983	ND		1.97	1.6		0.983	ND		0.983
1,3,5-Trimethylbenzene	ND		5.31	1.12		0.983	ND		2.46	1.15		0.983	ND		1.97	1.16		0.983	ND		0.983
1,2,4-Trimethylbenzene	5.46		5.31	4.89		0.983	4.76		2.46	5.11		0.983	5.21		1.97	5.31		0.983	2.54		0.983
Benzyl chloride	ND		5.59	ND		1.04	ND		2.59	ND		1.04	ND		2.07	ND		1.04	ND		1.04
1,3-Dichlorobenzene	ND		6.49	1.68		1.2	ND		3.01	1.59		1.2	ND		2.4	1.45		1.2	ND		1.2
1,4-Dichlorobenzene	ND		6.49	ND		1.2	ND		3.01	ND		1.2	ND		2.4	ND		1.2	ND		1.2
1,2-Dichlorobenzene	ND		6.49	ND		1.2	ND		3.01	ND		1.2	ND		2.4	ND		1.2	ND		1.2
1,2,4-Trichlorobenzene	ND		8.02	ND		1.48	ND		3.71	ND		1.48	ND		2.97	ND		1.48	ND		1.48
Hexachlorobutadiene	ND		11.5	ND		2.13	ND		5.33	ND		2.13	ND		4.27	ND		2.13	ND		2.13

Qualifier Key
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.
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.
C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
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.)
I - The lower value for the two columns has been reported due to obvious interference.
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.
A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
RE - Analytical results are from sample re-extraction.
R - Analytical results are from sample re-analysis.
D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
P - The RPD between the results for the two columns exceeds the method-specified criteria. U - Not detected at the reported detection limit for the sample.
M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
S - Analytical results are from modified screening analysis.
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).

TABLE 2

MATRIX A
SUB-SLAB AND INDOOR AIR RESULTS
BCP SITE C915331



SAMPLE ID: COLLECTION DATE: SAMPLE MATRIX:			MB-SS-1 4/30/2021 SS			MB-IA-1 4/30/2021 AIR			MB-SS-2 4/30/2021 SS			MB-IA-2 4/30/2021 AIR			MB-SS-3 4/30/2021 SS			MB-IA-3 4/30/2021 AIR			MB-OA-1 4/30/2021 AIR		
NY-SSC-A	NY-IAC-A		Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL
(ug/m3)	(ug/m3)																						
VOLATILE ORGANICS																							
1,1-Dichloroethene	6	0.2	ND		4.28	ND		0.079	ND		1.98	ND		0.079	ND		1.59	ND		0.079	ND		0.079
cis-1,2-Dichloroethene	6	0.2	ND		4.28	0.155		0.079	ND		1.98	ND		0.079	ND		1.59	ND		0.079	ND		0.079
Carbon tetrachloride	6	0.2	ND		6.79	0.352		0.126	ND		3.15	0.352		0.126	ND		2.52	0.352		0.126	0.365		0.126
Trichloroethene	6	0.2	ND		5.8	ND		0.107	ND		2.69	ND		0.107	ND		2.15	ND		0.107	ND		0.107

* 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-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.

Qualifier Key

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.

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.

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

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.)

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

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.

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

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

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

RE - Analytical results are from sample re-extraction.

R - Analytical results are from sample re-analysis.

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

P - The RPD between the results for the two columns exceeds the method-specified criteria. U - Not detected at the reported detection limit for the sample.

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

S - Analytical results are from modified screening analysis.

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).

TABLE 3

MATRIX B
SUB-SLAB AND INDOOR AIR RESULTS
BCP SITE C915331



SAMPLE ID: MB-SS-1						MB-IA-1			MB-SS-2			MB-IA-2			MB-SS-3			MB-IA-3			MB-OA-1		
COLLECTION DATE: 4/30/2021						4/30/2021			4/30/2021			4/30/2021			4/30/2021			4/30/2021			4/30/2021		
SAMPLE MATRIX: SS						AIR			SS			AIR			SS			AIR			AIR		
NY-SSC-B		NY-IAC-B																					
(ug/m3)	(ug/m3)	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	
VOLATILE ORGANICS																							
Methylene chloride	100	3	ND	9.35	ND		1.74	ND		4.34	ND		1.74	ND		3.47	ND		1.74	ND		1.74	
1,1,1-Trichloroethane	100	3	ND	5.89	ND		0.109	ND		2.73	ND		0.109	ND		2.18	ND		0.109	ND		0.109	
Tetrachloroethene	100	3	16.7	7.32	8.07		0.136	15.5		3.39	8.61		0.136	14.9		2.71	11.1		0.136	5.37		0.136	

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

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-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.

Qualifier Key

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.

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.

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

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.)

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

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.

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

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

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

RE - Analytical results are from sample re-extraction.

R - Analytical results are from sample re-analysis.

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

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

U - Not detected at the reported detection limit for the sample.

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

S - Analytical results are from modified screening analysis.

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).

TABLE 4

MATRIX C
SUB-SLAB AND INDOOR AIR RESULTS
BCP SITE C915331



SAMPLE ID: MB-SS-1						MB-IA-1			MB-SS-2			MB-IA-2			MB-SS-3			MB-IA-3			MB-OA-1		
COLLECTION DATE: 4/30/2021						4/30/2021			4/30/2021			4/30/2021			4/30/2021			4/30/2021			4/30/2021		
SAMPLE MATRIX: SS						AIR			SS			AIR			SS			AIR			AIR		
NY-SSC-C		NY-IAC-C		Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL		
(ug/m3)	(ug/m3)																						
VOLATILE ORGANICS																							
Vinyl chloride				6	0.2	ND	2.76	ND	0.051	ND	1.28	ND	0.051	ND	1.02	ND	0.051	ND	0.051	ND	0.051		

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

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-C: New York DOH Matrix C Sub-slab Vapor Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion, October 2006, and updated May 2017.

Qualifier Key

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.

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.

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

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.)

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

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.

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

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

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

RE - Analytical results are from sample re-extraction.

R - Analytical results are from sample re-analysis.

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

P - The RPD between the results for the two columns exceeds the method-specified criteria. U - Not detected at the reported detection limit for the sample.

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

S - Analytical results are from modified screening analysis.

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

LABORATORY ANALYTICAL REPORT



ANALYTICAL REPORT

Lab Number:	L2122680
Client:	C&S Companies 141 Elm Street, Suite 100 Buffalo, NY 14203
ATTN:	Cody Martin
Phone:	(716) 847-1630
Project Name:	201 ELLICOTT ST.
Project Number:	E67.020.006
Report Date:	05/04/21

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

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



Project Name: 201 ELLICOTT ST.
Project Number: E67.020.006

Lab Number: L2122680
Report Date: 05/04/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2122680-01	MB-SS-1	SOIL_VAPOR	MARKET BUILDING	04/30/21 10:50	04/30/21
L2122680-02	MB-IA-1	AIR	MARKET BUILDING	04/30/21 10:51	04/30/21
L2122680-03	MB-SS-2	SOIL_VAPOR	MARKET BUILDING	04/30/21 11:10	04/30/21
L2122680-04	MB-IA-2	AIR	MARKET BUILDING	04/30/21 11:11	04/30/21
L2122680-05	MB-SS-3	SOIL_VAPOR	MARKET BUILDING	04/30/21 11:20	04/30/21
L2122680-06	MB-IA-3	AIR	MARKET BUILDING	04/30/21 11:30	04/30/21
L2122680-07	MB-OA-1	AIR	MARKET BUILDING	04/30/21 11:00	04/30/21

Project Name: 201 ELLICOTT ST.
Project Number: E67.020.006

Lab Number: L2122680
Report Date: 05/04/21

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: 201 ELLICOTT ST.
Project Number: E67.020.006

Lab Number: L2122680
Report Date: 05/04/21

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on April 27, 2021. The canister certification results are provided as an addendum.

L2122680-01D, -03D, & -05D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

WG1493783-3: The LCS recovery for 1,2,4-trichlorobenzene (137%) is above the upper 130% acceptance limit. All samples associated with this LCS do not have reportable amounts of this analyte.

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:  Kelly O'Neill

Title: Technical Director/Representative

Date: 05/04/21

AIR

Project Name: 201 ELLICOTT ST.**Project Number:** E67.020.006**Lab Number:** L2122680**Report Date:** 05/04/21**SAMPLE RESULTS**

Lab ID: L2122680-01 D
 Client ID: MB-SS-1
 Sample Location: MARKET BUILDING

Date Collected: 04/30/21 10:50
 Date Received: 04/30/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 05/03/21 20:14
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	1.08	--	ND	5.34	--		5.381
Chloromethane	ND	1.08	--	ND	2.23	--		5.381
Freon-114	ND	1.08	--	ND	7.55	--		5.381
Vinyl chloride	ND	1.08	--	ND	2.76	--		5.381
1,3-Butadiene	ND	1.08	--	ND	2.39	--		5.381
Bromomethane	ND	1.08	--	ND	4.19	--		5.381
Chloroethane	ND	1.08	--	ND	2.85	--		5.381
Ethanol	ND	26.9	--	ND	50.7	--		5.381
Vinyl bromide	ND	1.08	--	ND	4.72	--		5.381
Acetone	53.6	5.38	--	127	12.8	--		5.381
Trichlorofluoromethane	ND	1.08	--	ND	6.07	--		5.381
Isopropanol	ND	2.69	--	ND	6.61	--		5.381
1,1-Dichloroethene	ND	1.08	--	ND	4.28	--		5.381
Tertiary butyl Alcohol	5.13	2.69	--	15.6	8.15	--		5.381
Methylene chloride	ND	2.69	--	ND	9.35	--		5.381
3-Chloropropene	ND	1.08	--	ND	3.38	--		5.381
Carbon disulfide	1.64	1.08	--	5.11	3.36	--		5.381
Freon-113	ND	1.08	--	ND	8.28	--		5.381
trans-1,2-Dichloroethene	ND	1.08	--	ND	4.28	--		5.381
1,1-Dichloroethane	ND	1.08	--	ND	4.37	--		5.381
Methyl tert butyl ether	ND	1.08	--	ND	3.89	--		5.381
2-Butanone	ND	2.69	--	ND	7.93	--		5.381
cis-1,2-Dichloroethene	ND	1.08	--	ND	4.28	--		5.381



Project Name: 201 ELLICOTT ST.**Lab Number:** L2122680**Project Number:** E67.020.006**Report Date:** 05/04/21**SAMPLE RESULTS**

Lab ID: L2122680-01 D
 Client ID: MB-SS-1
 Sample Location: MARKET BUILDING

Date Collected: 04/30/21 10:50
 Date Received: 04/30/21
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	2.69	--	ND	9.69	--		5.381
Chloroform	ND	1.08	--	ND	5.27	--		5.381
Tetrahydrofuran	ND	2.69	--	ND	7.93	--		5.381
1,2-Dichloroethane	ND	1.08	--	ND	4.37	--		5.381
n-Hexane	203	1.08	--	715	3.81	--		5.381
1,1,1-Trichloroethane	ND	1.08	--	ND	5.89	--		5.381
Benzene	4.52	1.08	--	14.4	3.45	--		5.381
Carbon tetrachloride	ND	1.08	--	ND	6.79	--		5.381
Cyclohexane	273	1.08	--	940	3.72	--		5.381
1,2-Dichloropropane	ND	1.08	--	ND	4.99	--		5.381
Bromodichloromethane	ND	1.08	--	ND	7.24	--		5.381
1,4-Dioxane	ND	1.08	--	ND	3.89	--		5.381
Trichloroethene	ND	1.08	--	ND	5.80	--		5.381
2,2,4-Trimethylpentane	ND	1.08	--	ND	5.04	--		5.381
Heptane	176	1.08	--	721	4.43	--		5.381
cis-1,3-Dichloropropene	ND	1.08	--	ND	4.90	--		5.381
4-Methyl-2-pentanone	ND	2.69	--	ND	11.0	--		5.381
trans-1,3-Dichloropropene	ND	1.08	--	ND	4.90	--		5.381
1,1,2-Trichloroethane	ND	1.08	--	ND	5.89	--		5.381
Toluene	19.0	1.08	--	71.6	4.07	--		5.381
2-Hexanone	ND	1.08	--	ND	4.43	--		5.381
Dibromochloromethane	ND	1.08	--	ND	9.20	--		5.381
1,2-Dibromoethane	ND	1.08	--	ND	8.30	--		5.381
Tetrachloroethene	2.46	1.08	--	16.7	7.32	--		5.381
Chlorobenzene	ND	1.08	--	ND	4.97	--		5.381
Ethylbenzene	3.24	1.08	--	14.1	4.69	--		5.381



Project Name: 201 ELLICOTT ST.**Lab Number:** L2122680**Project Number:** E67.020.006**Report Date:** 05/04/21**SAMPLE RESULTS**

Lab ID: L2122680-01 D
 Client ID: MB-SS-1
 Sample Location: MARKET BUILDING

Date Collected: 04/30/21 10:50
 Date Received: 04/30/21
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	9.72	2.15	--	42.2	9.34	--		5.381
Bromoform	ND	1.08	--	ND	11.2	--		5.381
Styrene	ND	1.08	--	ND	4.60	--		5.381
1,1,2,2-Tetrachloroethane	ND	1.08	--	ND	7.42	--		5.381
o-Xylene	2.73	1.08	--	11.9	4.69	--		5.381
4-Ethyltoluene	ND	1.08	--	ND	5.31	--		5.381
1,3,5-Trimethylbenzene	ND	1.08	--	ND	5.31	--		5.381
1,2,4-Trimethylbenzene	1.11	1.08	--	5.46	5.31	--		5.381
Benzyl chloride	ND	1.08	--	ND	5.59	--		5.381
1,3-Dichlorobenzene	ND	1.08	--	ND	6.49	--		5.381
1,4-Dichlorobenzene	ND	1.08	--	ND	6.49	--		5.381
1,2-Dichlorobenzene	ND	1.08	--	ND	6.49	--		5.381
1,2,4-Trichlorobenzene	ND	1.08	--	ND	8.02	--		5.381
Hexachlorobutadiene	ND	1.08	--	ND	11.5	--		5.381

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	103		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	102		60-140



Project Name: 201 ELLICOTT ST.**Project Number:** E67.020.006**Lab Number:** L2122680**Report Date:** 05/04/21**SAMPLE RESULTS**

Lab ID: L2122680-02
 Client ID: MB-IA-1
 Sample Location: MARKET BUILDING

Date Collected: 04/30/21 10:51
 Date Received: 04/30/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 05/03/21 17:22
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.385	0.200	--	1.90	0.989	--		1
Chloromethane	0.516	0.200	--	1.07	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	22.8	5.00	--	43.0	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	11.2	1.00	--	26.6	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	1.38	0.500	--	3.39	1.23	--		1
Tertiary butyl Alcohol	1.14	0.500	--	3.46	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.91	0.500	--	5.63	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	4.85	0.500	--	14.3	1.47	--		1



Project Name: 201 ELLICOTT ST.**Lab Number:** L2122680**Project Number:** E67.020.006**Report Date:** 05/04/21**SAMPLE RESULTS**

Lab ID: L2122680-02
 Client ID: MB-IA-1
 Sample Location: MARKET BUILDING

Date Collected: 04/30/21 10:51
 Date Received: 04/30/21
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	1.11	0.200	--	3.91	0.705	--		1
Benzene	0.275	0.200	--	0.879	0.639	--		1
Cyclohexane	0.774	0.200	--	2.66	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	0.257	0.200	--	0.926	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	1.51	0.200	--	6.19	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	6.00	0.200	--	22.6	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.696	0.200	--	3.02	0.869	--		1
p/m-Xylene	3.28	0.400	--	14.2	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.567	0.200	--	2.41	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.04	0.200	--	4.52	0.869	--		1
4-Ethyltoluene	0.286	0.200	--	1.41	0.983	--		1
1,3,5-Trimethylbenzene	0.228	0.200	--	1.12	0.983	--		1



Project Name: 201 ELLICOTT ST.**Lab Number:** L2122680**Project Number:** E67.020.006**Report Date:** 05/04/21**SAMPLE RESULTS****Lab ID:** L2122680-02**Date Collected:** 04/30/21 10:51**Client ID:** MB-IA-1**Date Received:** 04/30/21**Sample Location:** MARKET BUILDING**Field Prep:** Not Specified**Sample Depth:**

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	0.995	0.200	--	4.89	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	0.280	0.200	--	1.68	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	107		60-140



Project Name: 201 ELLICOTT ST.**Lab Number:** L2122680**Project Number:** E67.020.006**Report Date:** 05/04/21**SAMPLE RESULTS**

Lab ID: L2122680-02
 Client ID: MB-IA-1
 Sample Location: MARKET BUILDING

Date Collected: 04/30/21 10:51
 Date Received: 04/30/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 05/03/21 17:22
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	0.039	0.020	--	0.155	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.056	0.020	--	0.352	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	1.19	0.020	--	8.07	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	100		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	109		60-140



Project Name: 201 ELLICOTT ST.**Project Number:** E67.020.006**Lab Number:** L2122680**Report Date:** 05/04/21**SAMPLE RESULTS**

Lab ID: L2122680-03 D
 Client ID: MB-SS-2
 Sample Location: MARKET BUILDING

Date Collected: 04/30/21 11:10
 Date Received: 04/30/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 05/03/21 20:53
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	0.500	--	ND	2.47	--		2.5
Chloromethane	ND	0.500	--	ND	1.03	--		2.5
Freon-114	ND	0.500	--	ND	3.49	--		2.5
Vinyl chloride	ND	0.500	--	ND	1.28	--		2.5
1,3-Butadiene	ND	0.500	--	ND	1.11	--		2.5
Bromomethane	ND	0.500	--	ND	1.94	--		2.5
Chloroethane	ND	0.500	--	ND	1.32	--		2.5
Ethanol	15.7	12.5	--	29.6	23.6	--		2.5
Vinyl bromide	ND	0.500	--	ND	2.19	--		2.5
Acetone	107	2.50	--	254	5.94	--		2.5
Trichlorofluoromethane	ND	0.500	--	ND	2.81	--		2.5
Isopropanol	1.96	1.25	--	4.82	3.07	--		2.5
1,1-Dichloroethene	ND	0.500	--	ND	1.98	--		2.5
Tertiary butyl Alcohol	2.57	1.25	--	7.79	3.79	--		2.5
Methylene chloride	ND	1.25	--	ND	4.34	--		2.5
3-Chloropropene	ND	0.500	--	ND	1.57	--		2.5
Carbon disulfide	1.26	0.500	--	3.92	1.56	--		2.5
Freon-113	ND	0.500	--	ND	3.83	--		2.5
trans-1,2-Dichloroethene	ND	0.500	--	ND	1.98	--		2.5
1,1-Dichloroethane	ND	0.500	--	ND	2.02	--		2.5
Methyl tert butyl ether	ND	0.500	--	ND	1.80	--		2.5
2-Butanone	2.70	1.25	--	7.96	3.69	--		2.5
cis-1,2-Dichloroethene	ND	0.500	--	ND	1.98	--		2.5



Project Name: 201 ELLICOTT ST.**Lab Number:** L2122680**Project Number:** E67.020.006**Report Date:** 05/04/21**SAMPLE RESULTS**

Lab ID: L2122680-03 D
 Client ID: MB-SS-2
 Sample Location: MARKET BUILDING

Date Collected: 04/30/21 11:10
 Date Received: 04/30/21
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	1.25	--	ND	4.50	--		2.5
Chloroform	ND	0.500	--	ND	2.44	--		2.5
Tetrahydrofuran	1.54	1.25	--	4.54	3.69	--		2.5
1,2-Dichloroethane	ND	0.500	--	ND	2.02	--		2.5
n-Hexane	108	0.500	--	381	1.76	--		2.5
1,1,1-Trichloroethane	ND	0.500	--	ND	2.73	--		2.5
Benzene	4.53	0.500	--	14.5	1.60	--		2.5
Carbon tetrachloride	ND	0.500	--	ND	3.15	--		2.5
Cyclohexane	84.6	0.500	--	291	1.72	--		2.5
1,2-Dichloropropane	ND	0.500	--	ND	2.31	--		2.5
Bromodichloromethane	ND	0.500	--	ND	3.35	--		2.5
1,4-Dioxane	ND	0.500	--	ND	1.80	--		2.5
Trichloroethene	ND	0.500	--	ND	2.69	--		2.5
2,2,4-Trimethylpentane	ND	0.500	--	ND	2.34	--		2.5
Heptane	123	0.500	--	504	2.05	--		2.5
cis-1,3-Dichloropropene	ND	0.500	--	ND	2.27	--		2.5
4-Methyl-2-pentanone	ND	1.25	--	ND	5.12	--		2.5
trans-1,3-Dichloropropene	ND	0.500	--	ND	2.27	--		2.5
1,1,2-Trichloroethane	ND	0.500	--	ND	2.73	--		2.5
Toluene	17.9	0.500	--	67.5	1.88	--		2.5
2-Hexanone	ND	0.500	--	ND	2.05	--		2.5
Dibromochloromethane	ND	0.500	--	ND	4.26	--		2.5
1,2-Dibromoethane	ND	0.500	--	ND	3.84	--		2.5
Tetrachloroethene	2.28	0.500	--	15.5	3.39	--		2.5
Chlorobenzene	ND	0.500	--	ND	2.30	--		2.5
Ethylbenzene	2.82	0.500	--	12.2	2.17	--		2.5



Project Name: 201 ELLICOTT ST.**Lab Number:** L2122680**Project Number:** E67.020.006**Report Date:** 05/04/21**SAMPLE RESULTS**

Lab ID: L2122680-03 D
 Client ID: MB-SS-2
 Sample Location: MARKET BUILDING

Date Collected: 04/30/21 11:10
 Date Received: 04/30/21
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	8.40	1.00	--	36.5	4.34	--		2.5
Bromoform	ND	0.500	--	ND	5.17	--		2.5
Styrene	ND	0.500	--	ND	2.13	--		2.5
1,1,2,2-Tetrachloroethane	ND	0.500	--	ND	3.43	--		2.5
o-Xylene	2.60	0.500	--	11.3	2.17	--		2.5
4-Ethyltoluene	ND	0.500	--	ND	2.46	--		2.5
1,3,5-Trimethylbenzene	ND	0.500	--	ND	2.46	--		2.5
1,2,4-Trimethylbenzene	0.968	0.500	--	4.76	2.46	--		2.5
Benzyl chloride	ND	0.500	--	ND	2.59	--		2.5
1,3-Dichlorobenzene	ND	0.500	--	ND	3.01	--		2.5
1,4-Dichlorobenzene	ND	0.500	--	ND	3.01	--		2.5
1,2-Dichlorobenzene	ND	0.500	--	ND	3.01	--		2.5
1,2,4-Trichlorobenzene	ND	0.500	--	ND	3.71	--		2.5
Hexachlorobutadiene	ND	0.500	--	ND	5.33	--		2.5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	108		60-140



Project Name: 201 ELLICOTT ST.**Project Number:** E67.020.006**Lab Number:** L2122680**Report Date:** 05/04/21**SAMPLE RESULTS**

Lab ID: L2122680-04
 Client ID: MB-IA-2
 Sample Location: MARKET BUILDING

Date Collected: 04/30/21 11:11
 Date Received: 04/30/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 05/03/21 18:04
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.373	0.200	--	1.84	0.989	--		1
Chloromethane	0.517	0.200	--	1.07	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	20.0	5.00	--	37.7	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	7.07	1.00	--	16.8	2.38	--		1
Trichlorofluoromethane	0.207	0.200	--	1.16	1.12	--		1
Isopropanol	1.25	0.500	--	3.07	1.23	--		1
Tertiary butyl Alcohol	1.13	0.500	--	3.43	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.03	0.500	--	3.04	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	1.76	0.500	--	5.19	1.47	--		1



Project Name: 201 ELLICOTT ST.**Lab Number:** L2122680**Project Number:** E67.020.006**Report Date:** 05/04/21**SAMPLE RESULTS**

Lab ID: L2122680-04
 Client ID: MB-IA-2
 Sample Location: MARKET BUILDING

Date Collected: 04/30/21 11:11
 Date Received: 04/30/21
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.869	0.200	--	3.06	0.705	--		1
Benzene	0.294	0.200	--	0.939	0.639	--		1
Cyclohexane	0.454	0.200	--	1.56	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.985	0.200	--	4.04	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	6.15	0.200	--	23.2	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.725	0.200	--	3.15	0.869	--		1
p/m-Xylene	3.46	0.400	--	15.0	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.727	0.200	--	3.10	0.852	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.12	0.200	--	4.86	0.869	--		1
4-Ethyltoluene	0.326	0.200	--	1.60	0.983	--		1
1,3,5-Trimethylbenzene	0.233	0.200	--	1.15	0.983	--		1



Project Name: 201 ELLICOTT ST.**Lab Number:** L2122680**Project Number:** E67.020.006**Report Date:** 05/04/21**SAMPLE RESULTS**

Lab ID: L2122680-04
 Client ID: MB-IA-2
 Sample Location: MARKET BUILDING

Date Collected: 04/30/21 11:11
 Date Received: 04/30/21
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	1.04	0.200	--	5.11	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	0.264	0.200	--	1.59	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	101		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	107		60-140



Project Name: 201 ELLICOTT ST.**Lab Number:** L2122680**Project Number:** E67.020.006**Report Date:** 05/04/21**SAMPLE RESULTS**

Lab ID: L2122680-04
 Client ID: MB-IA-2
 Sample Location: MARKET BUILDING

Date Collected: 04/30/21 11:11
 Date Received: 04/30/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 05/03/21 18:04
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.056	0.020	--	0.352	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	1.27	0.020	--	8.61	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	101		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	109		60-140



Project Name: 201 ELLICOTT ST.**Project Number:** E67.020.006**Lab Number:** L2122680**Report Date:** 05/04/21**SAMPLE RESULTS**

Lab ID: L2122680-05 D
 Client ID: MB-SS-3
 Sample Location: MARKET BUILDING

Date Collected: 04/30/21 11:20
 Date Received: 04/30/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 05/03/21 21:33
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	0.400	--	ND	1.98	--		2
Chloromethane	ND	0.400	--	ND	0.826	--		2
Freon-114	ND	0.400	--	ND	2.80	--		2
Vinyl chloride	ND	0.400	--	ND	1.02	--		2
1,3-Butadiene	0.742	0.400	--	1.64	0.885	--		2
Bromomethane	ND	0.400	--	ND	1.55	--		2
Chloroethane	ND	0.400	--	ND	1.06	--		2
Ethanol	15.2	10.0	--	28.6	18.8	--		2
Vinyl bromide	ND	0.400	--	ND	1.75	--		2
Acetone	108	2.00	--	257	4.75	--		2
Trichlorofluoromethane	ND	0.400	--	ND	2.25	--		2
Isopropanol	1.93	1.00	--	4.74	2.46	--		2
1,1-Dichloroethene	ND	0.400	--	ND	1.59	--		2
Tertiary butyl Alcohol	2.68	1.00	--	8.12	3.03	--		2
Methylene chloride	ND	1.00	--	ND	3.47	--		2
3-Chloropropene	ND	0.400	--	ND	1.25	--		2
Carbon disulfide	0.986	0.400	--	3.07	1.25	--		2
Freon-113	ND	0.400	--	ND	3.07	--		2
trans-1,2-Dichloroethene	ND	0.400	--	ND	1.59	--		2
1,1-Dichloroethane	ND	0.400	--	ND	1.62	--		2
Methyl tert butyl ether	ND	0.400	--	ND	1.44	--		2
2-Butanone	4.43	1.00	--	13.1	2.95	--		2
cis-1,2-Dichloroethene	ND	0.400	--	ND	1.59	--		2



Project Name: 201 ELLICOTT ST.**Lab Number:** L2122680**Project Number:** E67.020.006**Report Date:** 05/04/21**SAMPLE RESULTS**

Lab ID: L2122680-05 D
 Client ID: MB-SS-3
 Sample Location: MARKET BUILDING

Date Collected: 04/30/21 11:20
 Date Received: 04/30/21
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	1.00	--	ND	3.60	--		2
Chloroform	ND	0.400	--	ND	1.95	--		2
Tetrahydrofuran	ND	1.00	--	ND	2.95	--		2
1,2-Dichloroethane	ND	0.400	--	ND	1.62	--		2
n-Hexane	81.3	0.400	--	287	1.41	--		2
1,1,1-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Benzene	3.87	0.400	--	12.4	1.28	--		2
Carbon tetrachloride	ND	0.400	--	ND	2.52	--		2
Cyclohexane	101	0.400	--	348	1.38	--		2
1,2-Dichloropropane	ND	0.400	--	ND	1.85	--		2
Bromodichloromethane	ND	0.400	--	ND	2.68	--		2
1,4-Dioxane	ND	0.400	--	ND	1.44	--		2
Trichloroethene	ND	0.400	--	ND	2.15	--		2
2,2,4-Trimethylpentane	ND	0.400	--	ND	1.87	--		2
Heptane	90.5	0.400	--	371	1.64	--		2
cis-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
4-Methyl-2-pentanone	ND	1.00	--	ND	4.10	--		2
trans-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
1,1,2-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Toluene	14.2	0.400	--	53.5	1.51	--		2
2-Hexanone	ND	0.400	--	ND	1.64	--		2
Dibromochloromethane	ND	0.400	--	ND	3.41	--		2
1,2-Dibromoethane	ND	0.400	--	ND	3.07	--		2
Tetrachloroethene	2.20	0.400	--	14.9	2.71	--		2
Chlorobenzene	ND	0.400	--	ND	1.84	--		2
Ethylbenzene	2.19	0.400	--	9.51	1.74	--		2



Project Name: 201 ELLICOTT ST.**Lab Number:** L2122680**Project Number:** E67.020.006**Report Date:** 05/04/21**SAMPLE RESULTS**

Lab ID: L2122680-05 D
 Client ID: MB-SS-3
 Sample Location: MARKET BUILDING

Date Collected: 04/30/21 11:20
 Date Received: 04/30/21
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	7.10	0.800	--	30.8	3.47	--		2
Bromoform	ND	0.400	--	ND	4.14	--		2
Styrene	0.440	0.400	--	1.87	1.70	--		2
1,1,2,2-Tetrachloroethane	ND	0.400	--	ND	2.75	--		2
o-Xylene	2.18	0.400	--	9.47	1.74	--		2
4-Ethyltoluene	ND	0.400	--	ND	1.97	--		2
1,3,5-Trimethylbenzene	ND	0.400	--	ND	1.97	--		2
1,2,4-Trimethylbenzene	1.06	0.400	--	5.21	1.97	--		2
Benzyl chloride	ND	0.400	--	ND	2.07	--		2
1,3-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,4-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,2-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,2,4-Trichlorobenzene	ND	0.400	--	ND	2.97	--		2
Hexachlorobutadiene	ND	0.400	--	ND	4.27	--		2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	101		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	110		60-140



Project Name: 201 ELLICOTT ST.**Project Number:** E67.020.006**Lab Number:** L2122680**Report Date:** 05/04/21**SAMPLE RESULTS**

Lab ID: L2122680-06
 Client ID: MB-IA-3
 Sample Location: MARKET BUILDING

Date Collected: 04/30/21 11:30
 Date Received: 04/30/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 05/03/21 19:36
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.379	0.200	--	1.87	0.989	--		1
Chloromethane	0.545	0.200	--	1.13	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	17.8	5.00	--	33.5	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	3.96	1.00	--	9.41	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	1.69	0.500	--	4.15	1.23	--		1
Tertiary butyl Alcohol	0.867	0.500	--	2.63	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.786	0.500	--	2.32	1.47	--		1
Ethyl Acetate	1.42	0.500	--	5.12	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.674	0.500	--	1.99	1.47	--		1



Project Name: 201 ELLICOTT ST.**Lab Number:** L2122680**Project Number:** E67.020.006**Report Date:** 05/04/21**SAMPLE RESULTS**

Lab ID: L2122680-06
 Client ID: MB-IA-3
 Sample Location: MARKET BUILDING

Date Collected: 04/30/21 11:30
 Date Received: 04/30/21
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.581	0.200	--	2.05	0.705	--		1
Benzene	0.302	0.200	--	0.965	0.639	--		1
Cyclohexane	0.291	0.200	--	1.00	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.763	0.200	--	3.13	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	5.49	0.200	--	20.7	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.895	0.200	--	3.89	0.869	--		1
p/m-Xylene	4.20	0.400	--	18.2	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.443	0.200	--	1.89	0.852	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.31	0.200	--	5.69	0.869	--		1
4-Ethyltoluene	0.326	0.200	--	1.60	0.983	--		1
1,3,5-Trimethylbenzene	0.236	0.200	--	1.16	0.983	--		1



Project Name: 201 ELLICOTT ST.**Lab Number:** L2122680**Project Number:** E67.020.006**Report Date:** 05/04/21**SAMPLE RESULTS****Lab ID:** L2122680-06**Date Collected:** 04/30/21 11:30**Client ID:** MB-IA-3**Date Received:** 04/30/21**Sample Location:** MARKET BUILDING**Field Prep:** Not Specified**Sample Depth:**

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	1.08	0.200	--	5.31	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	0.242	0.200	--	1.45	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	104		60-140



Project Name: 201 ELLICOTT ST.**Lab Number:** L2122680**Project Number:** E67.020.006**Report Date:** 05/04/21**SAMPLE RESULTS**

Lab ID: L2122680-06
 Client ID: MB-IA-3
 Sample Location: MARKET BUILDING

Date Collected: 04/30/21 11:30
 Date Received: 04/30/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 05/03/21 19:36
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.056	0.020	--	0.352	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	1.63	0.020	--	11.1	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	100		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	105		60-140



Project Name: 201 ELLICOTT ST.**Project Number:** E67.020.006**Lab Number:** L2122680**Report Date:** 05/04/21**SAMPLE RESULTS**

Lab ID: L2122680-07
 Client ID: MB-OA-1
 Sample Location: MARKET BUILDING

Date Collected: 04/30/21 11:00
 Date Received: 04/30/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 05/03/21 16:38
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.411	0.200	--	2.03	0.989	--		1
Chloromethane	0.510	0.200	--	1.05	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	6.32	5.00	--	11.9	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	28.4	1.00	--	67.5	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Tertiary butyl Alcohol	0.708	0.500	--	2.15	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	40.7	0.500	--	120	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



Project Name: 201 ELLICOTT ST.**Lab Number:** L2122680**Project Number:** E67.020.006**Report Date:** 05/04/21**SAMPLE RESULTS**

Lab ID: L2122680-07
 Client ID: MB-OA-1
 Sample Location: MARKET BUILDING

Date Collected: 04/30/21 11:00
 Date Received: 04/30/21
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.234	0.200	--	0.825	0.705	--		1
Benzene	0.206	0.200	--	0.658	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.271	0.200	--	1.11	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	2.40	0.200	--	9.04	0.754	--		1
2-Hexanone	3.68	0.200	--	15.1	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.427	0.200	--	1.85	0.869	--		1
p/m-Xylene	2.00	0.400	--	8.69	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.609	0.200	--	2.65	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: 201 ELLICOTT ST.**Lab Number:** L2122680**Project Number:** E67.020.006**Report Date:** 05/04/21**SAMPLE RESULTS****Lab ID:** L2122680-07**Date Collected:** 04/30/21 11:00**Client ID:** MB-OA-1**Date Received:** 04/30/21**Sample Location:** MARKET BUILDING**Field Prep:** Not Specified**Sample Depth:**

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	0.517	0.200	--	2.54	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	101		60-140



Project Name: 201 ELLICOTT ST.**Project Number:** E67.020.006**Lab Number:** L2122680**Report Date:** 05/04/21**SAMPLE RESULTS**

Lab ID: L2122680-07
 Client ID: MB-OA-1
 Sample Location: MARKET BUILDING

Date Collected: 04/30/21 11:00
 Date Received: 04/30/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 05/03/21 16:38
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.058	0.020	--	0.365	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.792	0.020	--	5.37	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	102		60-140



Project Name: 201 ELLICOTT ST.

Lab Number: L2122680

Project Number: E67.020.006

Report Date: 05/04/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/03/21 15:17

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 02,04,06-07 Batch: WG1493781-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Project Name: 201 ELLICOTT ST.

Lab Number: L2122680

Project Number: E67.020.006

Report Date: 05/04/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 05/03/21 14:36

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-07 Batch: WG1493783-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1



Project Name: 201 ELLICOTT ST.

Lab Number: L2122680

Project Number: E67.020.006

Report Date: 05/04/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 05/03/21 14:36

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-07 Batch: WG1493783-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1



Project Name: 201 ELLICOTT ST.

Lab Number: L2122680

Project Number: E67.020.006

Report Date: 05/04/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 05/03/21 14:36

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-07 Batch: WG1493783-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis Batch Quality Control

Project Name: 201 ELLICOTT ST.

Project Number: E67.020.006

Lab Number: L2122680

Report Date: 05/04/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 02,04,06-07 Batch: WG1493781-3								
Vinyl chloride	94		-		70-130	-		25
1,1-Dichloroethene	94		-		70-130	-		25
cis-1,2-Dichloroethene	99		-		70-130	-		25
1,1,1-Trichloroethane	87		-		70-130	-		25
Carbon tetrachloride	87		-		70-130	-		25
Trichloroethene	102		-		70-130	-		25
Tetrachloroethene	115		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 201 ELLICOTT ST.

Project Number: E67.020.006

Lab Number: L2122680

Report Date: 05/04/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-07 Batch: WG1493783-3								
Dichlorodifluoromethane	95		-		70-130	-		
Chloromethane	103		-		70-130	-		
Freon-114	103		-		70-130	-		
Vinyl chloride	98		-		70-130	-		
1,3-Butadiene	107		-		70-130	-		
Bromomethane	101		-		70-130	-		
Chloroethane	98		-		70-130	-		
Ethanol	96		-		40-160	-		
Vinyl bromide	93		-		70-130	-		
Acetone	67		-		40-160	-		
Trichlorofluoromethane	89		-		70-130	-		
Isopropanol	74		-		40-160	-		
1,1-Dichloroethene	96		-		70-130	-		
Tertiary butyl Alcohol	81		-		70-130	-		
Methylene chloride	94		-		70-130	-		
3-Chloropropene	97		-		70-130	-		
Carbon disulfide	88		-		70-130	-		
Freon-113	94		-		70-130	-		
trans-1,2-Dichloroethene	98		-		70-130	-		
1,1-Dichloroethane	100		-		70-130	-		
Methyl tert butyl ether	100		-		70-130	-		
2-Butanone	104		-		70-130	-		
cis-1,2-Dichloroethene	102		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 201 ELLICOTT ST.

Project Number: E67.020.006

Lab Number: L2122680

Report Date: 05/04/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-07 Batch: WG1493783-3								
Ethyl Acetate	108		-		70-130	-		
Chloroform	102		-		70-130	-		
Tetrahydrofuran	103		-		70-130	-		
1,2-Dichloroethane	86		-		70-130	-		
n-Hexane	102		-		70-130	-		
1,1,1-Trichloroethane	91		-		70-130	-		
Benzene	102		-		70-130	-		
Carbon tetrachloride	93		-		70-130	-		
Cyclohexane	103		-		70-130	-		
1,2-Dichloropropane	102		-		70-130	-		
Bromodichloromethane	97		-		70-130	-		
1,4-Dioxane	108		-		70-130	-		
Trichloroethene	104		-		70-130	-		
2,2,4-Trimethylpentane	105		-		70-130	-		
Heptane	102		-		70-130	-		
cis-1,3-Dichloropropene	108		-		70-130	-		
4-Methyl-2-pentanone	105		-		70-130	-		
trans-1,3-Dichloropropene	90		-		70-130	-		
1,1,2-Trichloroethane	104		-		70-130	-		
Toluene	112		-		70-130	-		
2-Hexanone	112		-		70-130	-		
Dibromochloromethane	116		-		70-130	-		
1,2-Dibromoethane	113		-		70-130	-		

Lab Control Sample Analysis Batch Quality Control

Project Name: 201 ELLICOTT ST.

Project Number: E67.020.006

Lab Number: L2122680

Report Date: 05/04/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-07 Batch: WG1493783-3								
Tetrachloroethene	117		-		70-130	-		
Chlorobenzene	118		-		70-130	-		
Ethylbenzene	115		-		70-130	-		
p/m-Xylene	115		-		70-130	-		
Bromoform	125		-		70-130	-		
Styrene	119		-		70-130	-		
1,1,2,2-Tetrachloroethane	123		-		70-130	-		
o-Xylene	118		-		70-130	-		
4-Ethyltoluene	115		-		70-130	-		
1,3,5-Trimethylbenzene	118		-		70-130	-		
1,2,4-Trimethylbenzene	122		-		70-130	-		
Benzyl chloride	128		-		70-130	-		
1,3-Dichlorobenzene	126		-		70-130	-		
1,4-Dichlorobenzene	126		-		70-130	-		
1,2-Dichlorobenzene	125		-		70-130	-		
1,2,4-Trichlorobenzene	137	Q	-		70-130	-		
Hexachlorobutadiene	126		-		70-130	-		

Lab Duplicate Analysis Batch Quality Control

Project Name: 201 ELLICOTT ST.

Project Number: E67.020.006

Lab Number: L2122680

Report Date: 05/04/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 02,04,06-07 QC Batch ID: WG1493781-5 QC Sample: L2122680-04 Client ID: MB-IA-2						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Carbon tetrachloride	0.056	0.054	ppbV	4		25
Trichloroethene	ND	ND	ppbV	NC		25
Tetrachloroethene	1.27	1.28	ppbV	1		25

Lab Duplicate Analysis Batch Quality Control

Project Name: 201 ELLICOTT ST.

Project Number: E67.020.006

Lab Number: L2122680

Report Date: 05/04/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1493783-5 QC Sample: L2122680-04 Client ID: MB-IA-2						
Dichlorodifluoromethane	0.373	0.368	ppbV	1		25
Chloromethane	0.517	0.523	ppbV	1		25
Freon-114	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethanol	20.0	17.8	ppbV	12		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	7.07	6.59	ppbV	7		25
Trichlorofluoromethane	0.207	ND	ppbV	NC		25
Isopropanol	1.25	1.25	ppbV	0		25
Tertiary butyl Alcohol	1.13	1.14	ppbV	1		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	1.03	1.03	ppbV	0		25
Ethyl Acetate	ND	ND	ppbV	NC		25

Lab Duplicate Analysis Batch Quality Control

Project Name: 201 ELLICOTT ST.

Project Number: E67.020.006

Lab Number: L2122680

Report Date: 05/04/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1493783-5 QC Sample: L2122680-04 Client ID: MB-IA-2						
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	1.76	1.74	ppbV	1		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	0.869	0.871	ppbV	0		25
Benzene	0.294	0.294	ppbV	0		25
Cyclohexane	0.454	0.452	ppbV	0		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC		25
Heptane	0.985	0.975	ppbV	1		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Toluene	6.15	6.20	ppbV	1		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	0.725	0.731	ppbV	1		25

Lab Duplicate Analysis Batch Quality Control

Project Name: 201 ELLICOTT ST.

Project Number: E67.020.006

Lab Number: L2122680

Report Date: 05/04/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1493783-5 QC Sample: L2122680-04 Client ID: MB-IA-2						
p/m-Xylene	3.46	3.49	ppbV	1		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	0.727	0.733	ppbV	1		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	1.12	1.11	ppbV	1		25
4-Ethyltoluene	0.326	0.305	ppbV	7		25
1,3,5-Trimethylbenzene	0.233	0.232	ppbV	0		25
1,2,4-Trimethylbenzene	1.04	1.05	ppbV	1		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	0.264	0.265	ppbV	0		25
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25

Project Name: 201 ELLICOTT ST.

Project Number: E67.020.006

Serial_No:05042111:13
Lab Number: L2122680

Report Date: 05/04/21

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 Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2122680-01	MB-SS-1	01813	Flow 4	04/27/21	350085		-	-	-	Pass	3.0	2.7	11
L2122680-01	MB-SS-1	772	6.0L Can	04/27/21	350085	L2118246-05	Pass	-29.2	-11.1	-	-	-	-
L2122680-02	MB-IA-1	0935	Flow 2	04/27/21	350085		-	-	-	Pass	3.0	3.1	3
L2122680-02	MB-IA-1	3276	6.0L Can	04/27/21	350085	L2118246-05	Pass	-29.3	-10.4	-	-	-	-
L2122680-03	MB-SS-2	0096	Flow 5	04/27/21	350085		-	-	-	Pass	3.0	2.8	7
L2122680-03	MB-SS-2	3363	6.0L Can	04/27/21	350085	L2118468-02	Pass	-29.1	-9.6	-	-	-	-
L2122680-04	MB-IA-2	0118	Flow 5	04/27/21	350085		-	-	-	Pass	3.0	2.9	3
L2122680-04	MB-IA-2	2320	6.0L Can	04/27/21	350085	L2118468-02	Pass	-29.2	-8.7	-	-	-	-
L2122680-05	MB-SS-3	01728	Flow 5	04/27/21	350085		-	-	-	Pass	3.0	3.0	0
L2122680-05	MB-SS-3	806	6.0L Can	04/27/21	350085	L2118468-03	Pass	-29.3	-9.9	-	-	-	-
L2122680-06	MB-IA-3	01775	Flow 5	04/27/21	350085		-	-	-	Pass	3.0	2.6	14
L2122680-06	MB-IA-3	642	6.0L Can	04/27/21	350085	L2118468-02	Pass	-29.1	-12.9	-	-	-	-
L2122680-07	MB-OA-1	01003	Flow 5	04/27/21	350085		-	-	-	Pass	3.0	3.1	3
L2122680-07	MB-OA-1	1556	6.0L Can	04/27/21	350085	L2118468-03	Pass	-29.3	-8.4	-	-	-	-

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

Lab Number: L2118246
Report Date: 05/04/21

Air Canister Certification Results

Lab ID: L2118246-05
Client ID: CAN 1906 SHELF 31
Sample Location:

Date Collected: 04/12/21 09:00
Date Received: 04/12/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 04/12/21 19:11
Analyst: EW

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



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

Lab Number: L2118246
Report Date: 05/04/21

Air Canister Certification Results

Lab ID: L2118246-05
Client ID: CAN 1906 SHELF 31
Sample Location:

Date Collected: 04/12/21 09:00
Date Received: 04/12/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



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

Lab Number: L2118246
Report Date: 05/04/21

Air Canister Certification Results

Lab ID: L2118246-05
Client ID: CAN 1906 SHELF 31
Sample Location:

Date Collected: 04/12/21 09:00
Date Received: 04/12/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



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

Lab Number: L2118246
Report Date: 05/04/21

Air Canister Certification Results

Lab ID: L2118246-05
Client ID: CAN 1906 SHELF 31
Sample Location:

Date Collected: 04/12/21 09:00
Date Received: 04/12/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2118246**Project Number:** CANISTER QC BAT**Report Date:** 05/04/21**Air Canister Certification Results**

Lab ID: L2118246-05

Date Collected: 04/12/21 09:00

Client ID: CAN 1906 SHELF 31

Date Received: 04/12/21

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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	91		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	88		60-140

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

Lab Number: L2118246
Report Date: 05/04/21

Air Canister Certification Results

Lab ID: L2118246-05
Client ID: CAN 1906 SHELF 31
Sample Location:

Date Collected: 04/12/21 09:00
Date Received: 04/12/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 04/12/21 19:11
Analyst: EW

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



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

Lab Number: L2118246
Report Date: 05/04/21

Air Canister Certification Results

Lab ID: L2118246-05
Client ID: CAN 1906 SHELF 31
Sample Location:

Date Collected: 04/12/21 09:00
Date Received: 04/12/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2118246**Project Number:** CANISTER QC BAT**Report Date:** 05/04/21**Air Canister Certification Results**

Lab ID: L2118246-05

Date Collected: 04/12/21 09:00

Client ID: CAN 1906 SHELF 31

Date Received: 04/12/21

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	91		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	89		60-140



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

Lab Number: L2118468
Report Date: 05/04/21

Air Canister Certification Results

Lab ID: L2118468-02
Client ID: CAN 1653 SHELF 34
Sample Location:

Date Collected: 04/12/21 16:00
Date Received: 04/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 04/13/21 17:52
Analyst: EW

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



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

Lab Number: L2118468
Report Date: 05/04/21

Air Canister Certification Results

Lab ID: L2118468-02
Client ID: CAN 1653 SHELF 34
Sample Location:

Date Collected: 04/12/21 16:00
Date Received: 04/13/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



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

Lab Number: L2118468
Report Date: 05/04/21

Air Canister Certification Results

Lab ID: L2118468-02
Client ID: CAN 1653 SHELF 34
Sample Location:

Date Collected: 04/12/21 16:00
Date Received: 04/13/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



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

Lab Number: L2118468
Report Date: 05/04/21

Air Canister Certification Results

Lab ID: L2118468-02
Client ID: CAN 1653 SHELF 34
Sample Location:

Date Collected: 04/12/21 16:00
Date Received: 04/13/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2118468**Project Number:** CANISTER QC BAT**Report Date:** 05/04/21**Air Canister Certification Results**

Lab ID: L2118468-02

Date Collected: 04/12/21 16:00

Client ID: CAN 1653 SHELF 34

Date Received: 04/13/21

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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	94		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	91		60-140

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

Lab Number: L2118468
Report Date: 05/04/21

Air Canister Certification Results

Lab ID: L2118468-02
Client ID: CAN 1653 SHELF 34
Sample Location:

Date Collected: 04/12/21 16:00
Date Received: 04/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 04/13/21 17:52
Analyst: EW

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



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

Lab Number: L2118468
Report Date: 05/04/21

Air Canister Certification Results

Lab ID: L2118468-02
Client ID: CAN 1653 SHELF 34
Sample Location:

Date Collected: 04/12/21 16:00
Date Received: 04/13/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



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

Lab Number: L2118468
Report Date: 05/04/21

Air Canister Certification Results

Lab ID: L2118468-02
Client ID: CAN 1653 SHELF 34
Sample Location:

Date Collected: 04/12/21 16:00
Date Received: 04/13/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	91		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	90		60-140



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

Lab Number: L2118468
Report Date: 05/04/21

Air Canister Certification Results

Lab ID: L2118468-03
Client ID: CAN 929 SHELF 39
Sample Location:

Date Collected: 04/12/21 16:00
Date Received: 04/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 04/13/21 18:30
Analyst: EW

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

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

Lab Number: L2118468
Report Date: 05/04/21

Air Canister Certification Results

Lab ID: L2118468-03
Client ID: CAN 929 SHELF 39
Sample Location:

Date Collected: 04/12/21 16:00
Date Received: 04/13/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



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

Lab Number: L2118468
Report Date: 05/04/21

Air Canister Certification Results

Lab ID: L2118468-03
Client ID: CAN 929 SHELF 39
Sample Location:

Date Collected: 04/12/21 16:00
Date Received: 04/13/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



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

Lab Number: L2118468
Report Date: 05/04/21

Air Canister Certification Results

Lab ID: L2118468-03
Client ID: CAN 929 SHELF 39
Sample Location:

Date Collected: 04/12/21 16:00
Date Received: 04/13/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2118468**Project Number:** CANISTER QC BAT**Report Date:** 05/04/21**Air Canister Certification Results**

Lab ID: L2118468-03

Date Collected: 04/12/21 16:00

Client ID: CAN 929 SHELF 39

Date Received: 04/13/21

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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	99		60-140
chlorobenzene-d5	92		60-140

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

Lab Number: L2118468
Report Date: 05/04/21

Air Canister Certification Results

Lab ID: L2118468-03
Client ID: CAN 929 SHELF 39
Sample Location:

Date Collected: 04/12/21 16:00
Date Received: 04/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 04/13/21 18:30
Analyst: EW

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



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

Lab Number: L2118468
Report Date: 05/04/21

Air Canister Certification Results

Lab ID: L2118468-03
Client ID: CAN 929 SHELF 39
Sample Location:

Date Collected: 04/12/21 16:00
Date Received: 04/13/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2118468**Project Number:** CANISTER QC BAT**Report Date:** 05/04/21**Air Canister Certification Results****Lab ID:** L2118468-03**Date Collected:** 04/12/21 16:00**Client ID:** CAN 929 SHELF 39**Date Received:** 04/13/21**Sample Location:****Field Prep:** Not Specified**Sample Depth:**

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	91		60-140



Project Name: 201 ELLICOTT ST.**Lab Number:** L2122680**Project Number:** E67.020.006**Report Date:** 05/04/21**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

NA Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2122680-01A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2122680-02A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2122680-03A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2122680-04A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2122680-05A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2122680-06A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2122680-07A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)

Project Name: 201 ELLICOTT ST.
Project Number: E67.020.006

Lab Number: L2122680
Report Date: 05/04/21

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: Data Usability Report



Project Name: 201 ELLICOTT ST.
Project Number: E67.020.006

Lab Number: L2122680
Report Date: 05/04/21

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.

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'.

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 at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

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.)

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. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report



Project Name: 201 ELLICOTT ST.**Lab Number:** L2122680**Project Number:** E67.020.006**Report Date:** 05/04/21**Data Qualifiers**

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.

Project Name: 201 ELLICOTT ST.
Project Number: E67.020.006

Lab Number: L2122680
Report Date: 05/04/21

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.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 19

Published Date: 4/2/2021 1:14:23 PM

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Certification Information

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

Westborough Facility**EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625/625.1:** alpha-Terpineol**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D/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 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**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, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 332:** Perchlorate; **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), **EPA 600/4-81-045:** PCB-Oil.**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

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

Client Information

Client: *C&S Engineers, Inc*
Address: *141 Elm Street*

Phone:

Fax:

Email: *cmartin@cscos.com*
☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

Project Information

Project Name: *201 Ellicott St.*
Project Location: *Market Building*
Project #: *E67.020.006*
Project Manager: *Cody Martin*
ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved)
Date Due: *2-days* Time:Date Rec'd in Lab: *5-1-21*ALPHA Job #: *L2122680*

Report Information - Data Deliverables

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

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm
<i>NY DOH</i>		

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	All Columns Below Must Be Filled Out										TO-15	TO-15 SIM	APH	Fixed Gas	Sulfides & Mercaptans	Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller						
22680-01	MB-SS-1	4/30/21	10:52	10:50	29.28	10.68	SV	CM	6L	772	0813	X					
02	MB-IA-1		10:53	10:51	29.21	10.19	AA			3276	0935	X					
03	MB-SS-2		11:10	11:10	29.23	9.09	SV			3363	0096	X					
04	MB-IA-2		11:15	11:11	29.04	8.48	AA			2320	0118	X					
05	MB-SS-3		11:20	11:20	29.38	9.35	SV			806	1728	X					
06	MB-IA-3		11:25	11:30	29.25	12.45	AA			642	1775	X					
07	MB-CA-1		11:00	11:00	29.38	8.89	AA			1556	1003	X					

*SAMPLE MATRIX CODES

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

Container Type *CS*

Relinquished By:

Date/Time

Received By:

Date/Time:

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.

C&S AIR SAMPLING PROTOCOL

Indoor Air Sampling

Indoor air samples are collected using a Summa™ canister (6-Liter capacity) equipped with a critical orifice flow regulation device sized to allow an air sample to be collected over a 24-hour sampling period. Care is taken to deploy the canisters away from the direct influence of any forced air emanating from air conditioning units, central air conditioning vents, furnaces or heaters. The indoor air sampling procedure is as follows:

- Prior to initiating sampling, C&S conducts a background review, building assessment, and preliminary screening in order to select appropriate sampling locations that will not be affected by building operations, construction, or features such as occupants, sumps / basements, windows / doors, heating / cooling systems, material storage, etc. In addition, an inventory of products utilized in or near the sampling areas was prepared.
- Air sample canisters are labeled with a unique sample designation number. The sample number and location are recorded in the field log book.
- The canister vacuum is measured using an integrated vacuum gauge immediately prior to canister deployment and recorded in the field log book. The critical orifice flow controller is installed, as supplied by the laboratory, on the canister; the canister is opened fully at the beginning of sample collection period; and the start time is recorded.
- The canister valve is closed fully at the end of the sample period by disconnecting the regulator from the canister (after 24-hours) and the end time recorded. Any evidence of canister disturbance during the sample collection is recorded.
- The canister vacuum is measured and recorded immediately after canister retrieval at the end of the sample period. Once the vacuum is measured, the canisters are returned to their sampling boxes for safe storage and shipping. Field data is verified as correctly entered into field books prior to shipment and the canisters are shipped to the laboratory under a chain-of-custody.

Sub-Slab Soil Gas Sampling

Sub-slab sampling points are installed to collect soil gas immediately below the slab. Sub-slab gas samples are collected using a 6-Liter Summa™ canister fitted with a flow orifice pre-calibrated to collect a 6-Liter sample over a 24-hour period. The sub-slab vapor points are installed by first drilling a small diameter hole (approximately 3/8-inches in diameter) through the floor slab to determine thickness. The hole extends through the slab and terminates at the interface with underlying material (i.e. gravel base or soil).

A sample point consisting of a length of tubing is placed into the hole through the slab until the tubing sits directing above the soil material below the slab. The remaining cored slab annulus is then filled with clay around the tubing to create an air-tight seal. Prior to sub-slab soil gas sample collection, the tubing is purged at a rate not exceeding 200 ml/min. The total volume purged prior to sample collection equals three volumes of air in the tubing.

Helium is used as a field tracer prior to sampling to confirm that sub-slab airspace and indoor air space are not connected. The helium is introduced into a dome positioned above the sampling point. The tubing and indoor air are isolated prior to introducing helium into the dome. The helium concentration is read using a helium meter that is capable to read down to 1-2%. If helium is detected by the meter, the clay seal is replaced and the tracer test is re-performed.

At the end of the sampling event, a pressure gauge reading is recorded so that the laboratory can compare the starting and ending pressures. Once the 24-hour sampling period has been completed, the canister is disconnected from the flow orifice, boxed, and delivered / shipped to the laboratory for analysis. Field documentation are maintained in a field notebook and on field data forms.

Ambient Air Sampling

Ambient air samples are collected in the same manner as the indoor air samples

Building Survey Form

Site Name: 201 Ellicott Street BCP - Market Building

Site Address: 201 Ellicott Street Buffalo, New York

C&S Project #: E67.020.006

C&S Staff: Cody Martin

Date: 30-Apr-21

Weather / Temp / Wind: Overcast / 46 F / 2 MPH North

Sample Types and Locations (describe or sketch on page 2 or site plan):

1 sub-slab and 1 indoor air sample in the market area (MB-SS-3 and MB-IA-3)

1 sub-slab and 1 indoor air sample in the maintenance area (MB-SS-2 and MB-IA-2)

1 sub-slab and 1 indoor air sample in the freight storage area (MB-SS-1 and MB-IA-1)

1 outdoor air sample (MB-OA-1)

Comments on building layout, construction, HVAC, or other features that may affect intrusion or air flow:

Slab on grade construction, open floor plan with rooms in the center of the building, elevator, HVAC system was running, all doors and windows closed.

Comments on building functions or material storage that could affect sample results:

Building is currently under construction. Construction materials consist of electrical wiring and equipment

2-3 drums of Intercool NFP-50 propylene glycol-based heat transfer fluid and small containers of Pine Sol and Windex.

PID Results at sample locations:

MB-SS-1 = 42 ppm

MB-SS-2 = 196 ppm

MB-SS-3 = 70 ppm

Sample Location Sketch

SEE FIGURE 3