C&S Companies
141 Elm Street
Suite 100
Buffalo, NY 14203
p: (716) 847-1630
f: (716) 847-1454
www.cscos.com

November 12, 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 and Residential Building Soil Vapor Intrusion Sampling Results

Dear Josh:

C&S Engineers, Inc. (C&S) has performed soil vapor intrusion (SVI) sampling for the structures located at 201 Ellicott Street, Buffalo, New York (The Site). The redevelopment included 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 19,000-square-foot slab-on-grade building ("Market Building") and the seven story affordable housing unit building ("Residential Building").

Figure 1 &2 shows the 3D rendering of the Market and Residential Buildings. **Figure 3 &4** presents the foundation plan of the Market and Residential Buildings.

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 6 presents the RI results and shows the approximate extents of the Market and Residential Buildings. **Figure 7** presents the signed and stamped excavation depths with the approximate extents of the Market and Residential Buildings.

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 and Residential Buildings. 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.

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:

Sample ID	*Location*	*Date Sampled*
MARKET BUILDING		
MB-SS-1	Freight/Loading Dock Area	11/4/2021 – 11/5/2021
MB-IA-1	Freight/Loading Dock Area	11/4/2021 – 11/5/2021
MB-SS-2	Storage Area	11/4/2021 – 11/5/2021
MB-IA-2	Storage Area	11/4/2021 – 11/5/2021
MB-SS-3	Market Area	11/4/2021 – 11/5/2021

MB-IA-3	Market Area	11/4/2021 – 11/5/2021
OA-1	Between Market and Residential Building	11/4/2021 – 11/5/2021
RESIDENTIAL BUILDING		
RB-SS-1	1ST Floor	11/4/2021 – 11/5/2021
RB-IA-1	1ST Floor	11/4/2021 – 11/5/2021
RB-SS-2	1ST Floor	11/4/2021 – 11/5/2021
RB-IA-2	1ST Floor	11/4/2021 – 11/5/2021
RB-SS-3	1ST Floor	11/4/2021 – 11/5/2021
RB-IA-3	1ST Floor	11/4/2021 – 11/5/2021

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 and Residential Buildings.

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.

- Sub-slab samples form the Residential Building were taken from the passive sub-slab depressurization system risers. The system has been capped since its installation in 2020.

- 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:

Compound	***AGV (µg/M³)***
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-dichlorethene (1,1-DCE), cis-1,2-dichloroethene (cis-1,2-DCE), and TCE.

	Indoor Air Concentration of Compounds (µg/M³)		
Sub-Slab Vapor Concentration of Compound *(µg/M³)*	< 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).

	Indoor Air Concentration of Compounds (µg/M³)		
Sub-Slab Vapor Concentration of Compound *(µg/M³)*	< 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

	Indoor Air Concentration of Compounds (µg/M³)	
Sub-Slab Vapor Concentration of Compound *(µg/M³)*	< 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:

Market Building

- 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 0.365 µg/m^3 to 0.459 µg/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 µg/m^3 limit at 0.155 µg/m^3. cis-1,2-DCE was not detected in the remaining indoor air samples.
  - TCE was not detect 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 was not detected in the sub-slab samples. Two indoor air samples contained PCE below the 3 µg/m^3 limit at 0.231 µg/m^3 and 0.407 µg/m^3.
  - 1,1,1-TCA was not detected in the sub slab and indoor air samples.

- Matrix C – vinyl chloride.

  - Vinyl chloride was not detected in the sub-slab samples. One indoor air sample contained vinyl chloride below 0.2 µg/m^3 limit at 0.092 µg/m^3. Vinyl chloride was not detected in the remaining indoor air samples.

- 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.

Residential Building

- 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 0.34 µg/m^3 to 0.403 µg/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 and indoor samples.
  - TCE was not detect 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 was not detected in the sub-slab samples. Two indoor air samples contained PCE below the 3 µg/m^3 limit at 0.17 µg/m^3 and 0.278 µg/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. Application of the NYSDOH Decision Matrices indicates that no further action is required.

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 removed. A revised Certificate of Completion without conditions should be issued. Associated with this modification would be the elimination of the need for any Site Management Plan or Periodic Review Report 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

f:\project\e67 - ciminelli development\e67.020.006 - 201 ellicott smp\planning-study\correspondence\201 ellicott st (market building) svi sampling letter.docx

CERTIFICATION STATEMENT

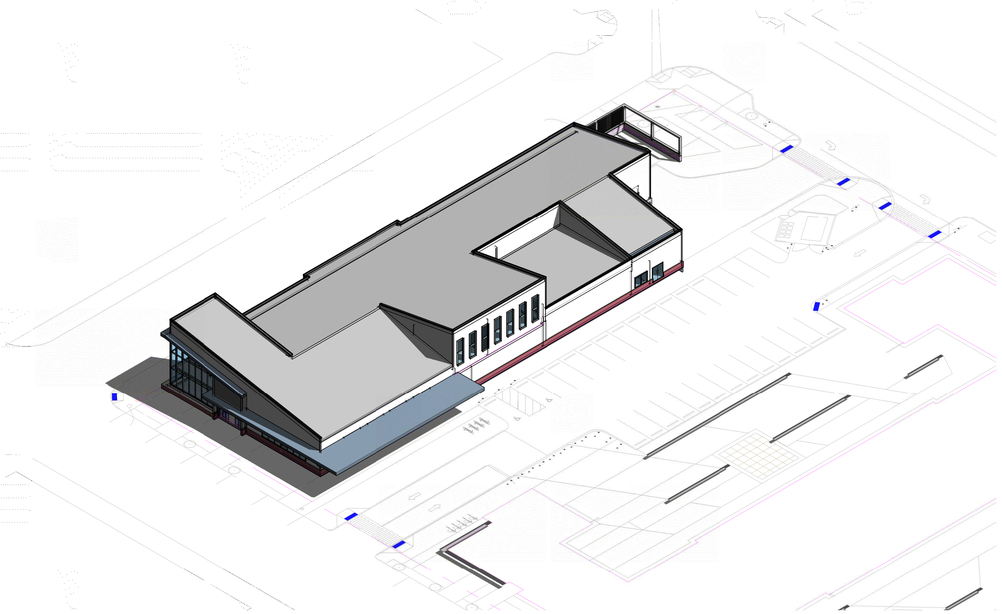
I _____John T. Camp_____certify that I am currently a NYS registered professional engineer and that this Soil Vapor Intrusion Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006 (as amended).

_____ P.E.

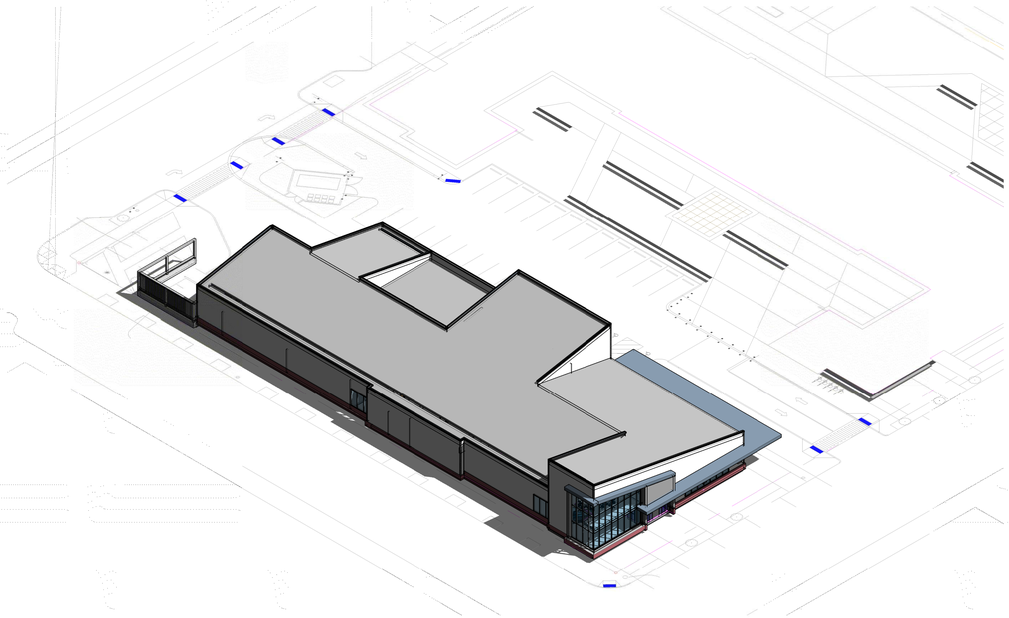
_____12/22/2021_____ DATE

f:\project\e67 - ciminelli development\e67.020.006 - 201 ellicott smp\planning-study\correspondence\201 ellicott st (market building) svi sampling letter.docx

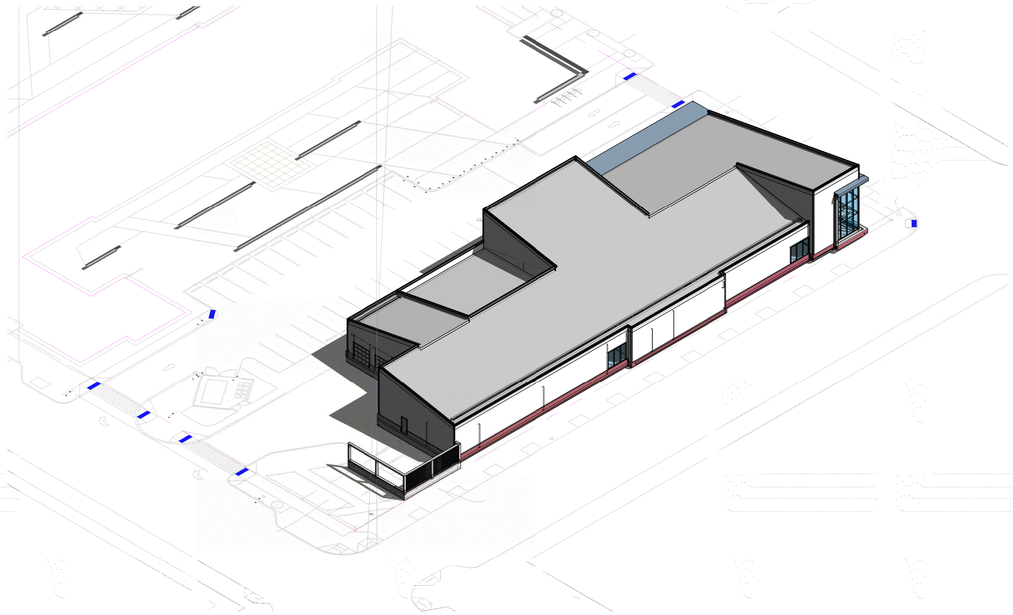
FIGURES



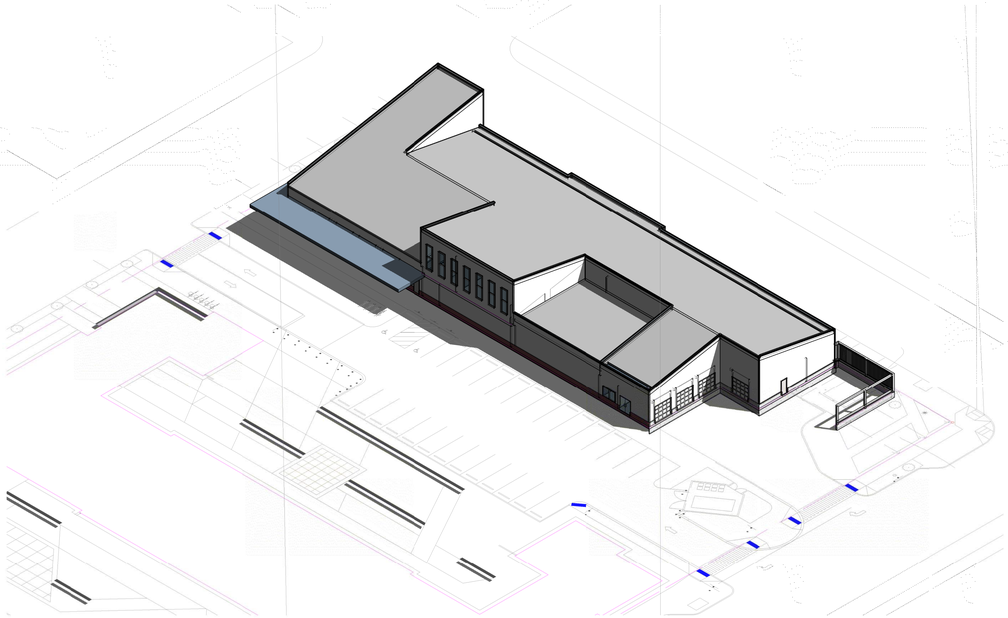
1 Market Isomentric View 1



2 Market Isomentric View 2



3 Market Isomentric View 3



4 Market Isomentric View 4

FIGURE 1

201 ELLICOTT STREET

MARKET BUILDING

Ciminelli REAL ESTATE CORPORATION

CANNONDESIGN
2170 Whitehaven Road
Grand Island, New York 14072
T: 716.773.6800
F: 716.773.5909

Watts Architecture & Engineering
Civil Engineer
5 Perry St #300
Buffalo, NY 14203
(716) 206-5100

Wendel
Traffic Engineer & Landscape Architecture
375 Essjay Rd
Buffalo, NY 14221
(716) 688-0766

DesignSynergies Architecture
Architecture
846 Main St., Suite 2
Buffalo, NY 14202
(716) 322-5512

FOR REFERENCE ONLY

Rev.	Description	Date

A B

N

KEY PLAN

Drawing Title:

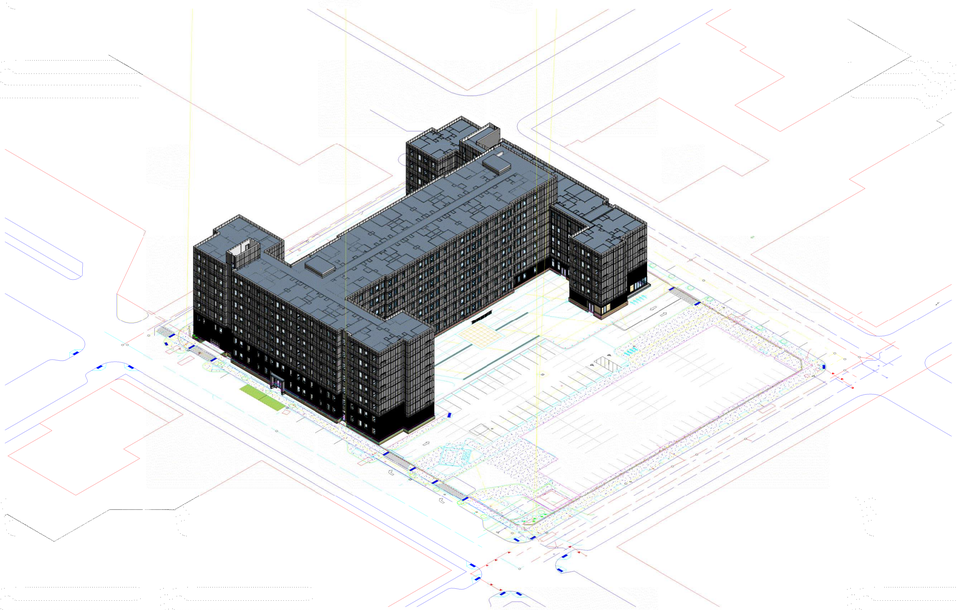
BUILDING ISOMETRICS

Project No.: 005117.03 Checked by: Checker

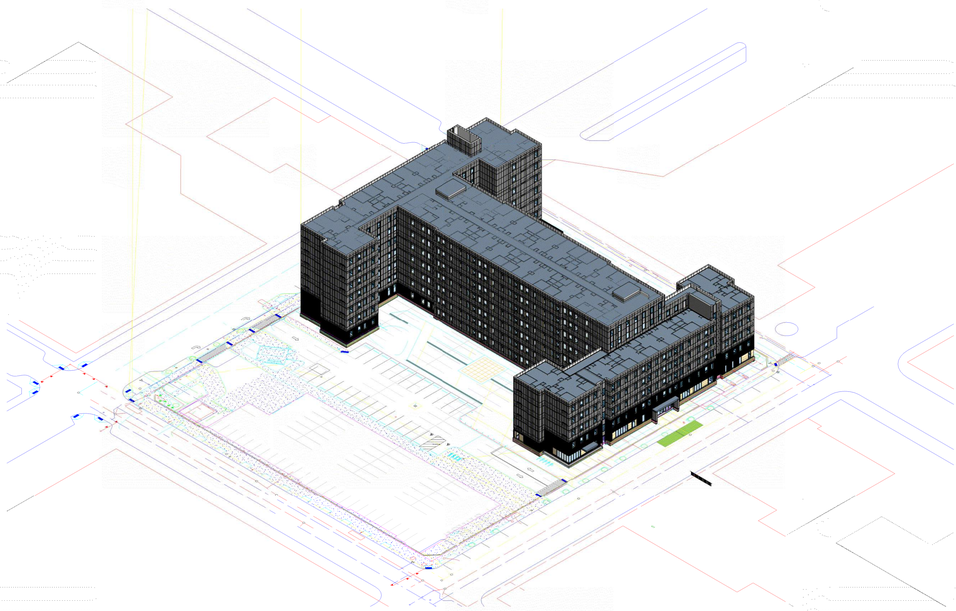
A0300

© 2019 The Cannon Corporation
All rights reserved. Use of this document may be reproduced or utilized in any form, without prior written consent of The Cannon Corporation.
7/18/2019 5:15:11 PM

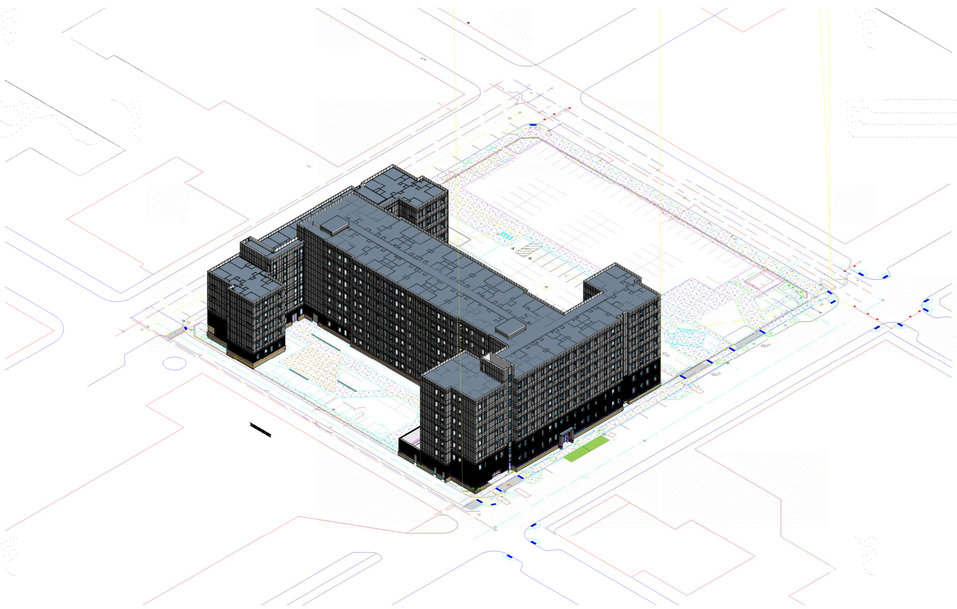
© 2019 The Cannon Corporation



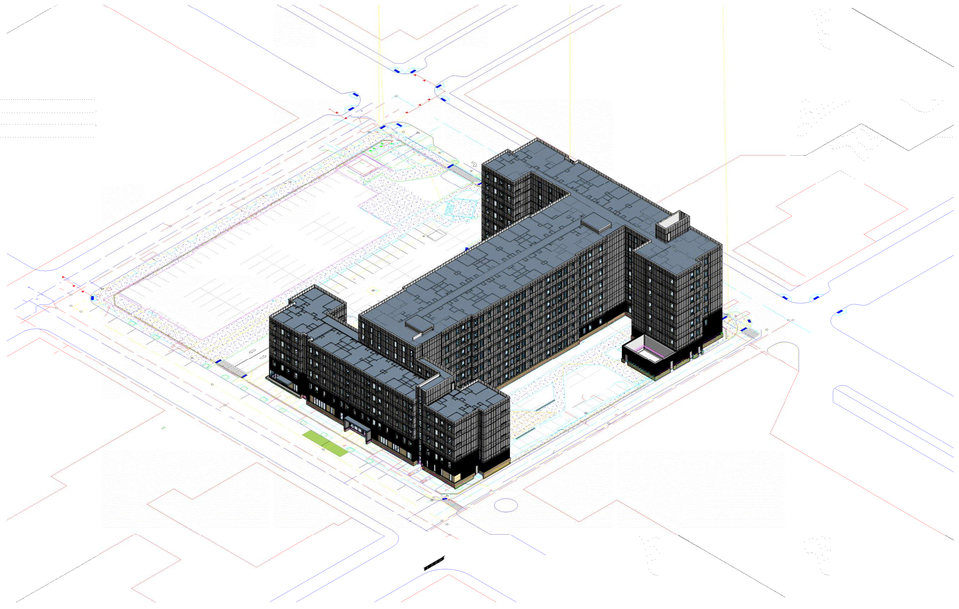
1 OVERALL BUILDING ISOMETRIC - NE



2 OVERALL BUILDING ISOMETRIC - NW



4 OVERALL BUILDING ISOMETRIC - SE



3 OVERALL BUILDING ISOMETRIC - SW

FIGURE 2

© 2019 The Cannon Corporation
All rights reserved. Content of this document may be reproduced or utilized in any form, without prior written consent from The Cannon Corporation.
7/22/2019 3:18:41 PM

201 ELLICOTT STREET

RESIDENTIAL BUILDING

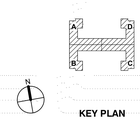
Ciminelli REAL ESTATE CORPORATION

CANNONDESIGN
2170 Whitehaven Road
Grand Island, New York 14072
T: 716.773.6800
F: 716.773.5909

Watts Architecture & Engineering
Civil Engineer
5 Perry St #300
Buffalo, NY 14203
(716) 206-5100

Wendel
Traffic Engineer & Landscape Architecture
375 Essjay Rd
Buffalo, NY 14221
(716) 688-0766

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



KEY PLAN

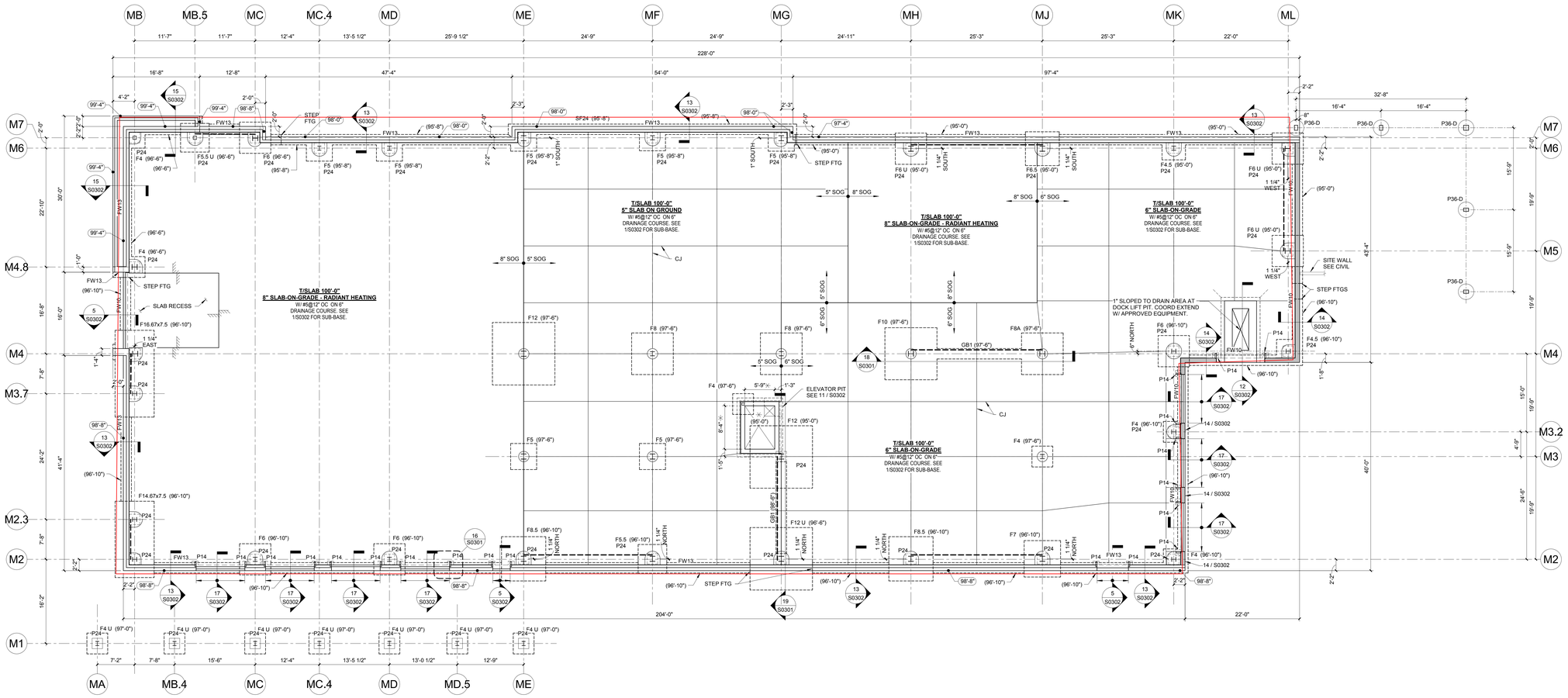
Drawing Title:

OVERALL BUILDING ISOMETRICS

Project No.: 005117.03 Checked by: Checker

G0101

© 2019 The Cannon Corporation



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 98'-6" UNLESS NOTED THUS. SEE 16/S0301 FOR TYPICAL P14.
5. F/W INDICATES FOUNDATION FROST WALL. SEE SPECIFIC DETAILS FOR ADDITIONAL INFORMATION.

© 2019 The Cannon Corporation
All rights reserved. This document may be reproduced or utilized in any form, without prior written permission of The Cannon Corporation.

7/22/2019 3:07:42 PM

201 ELLICOTT STREET

MARKET BUILDING

Ciminelli REAL ESTATE CORPORATION

CANNONDESIGN
2170 Whitehaven Road
Grand Island, New York 14072
T: 716.773.6800
F: 716.773.5909

Watts Architecture & Engineering
Civil Engineer
5 Perry St #300
Buffalo, NY 14203
(716) 206-5100

Wendel
Traffic Engineer & Landscape Architecture
375 Essjay Rd
Buffalo, NY 14221
(716) 688-0766

DesignSynergies Architecture
Architecture
846 Main St., Suite 2
Buffalo, NY 14202
(716) 322-5512

NOT FOR CONSTRUCTION

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

KEY PLAN

Drawing Title:

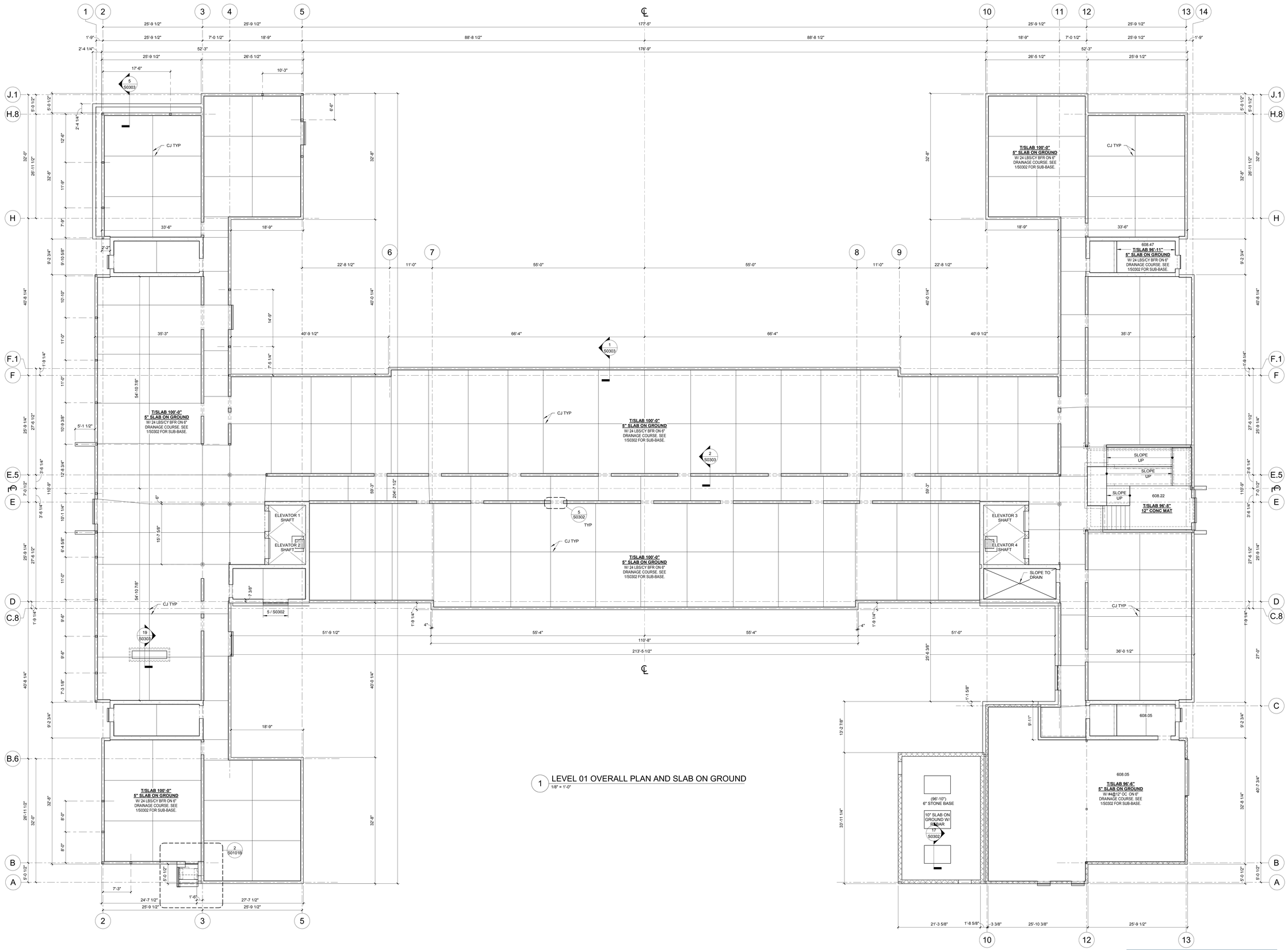
LEVEL 01 FOUNDATION PLAN

Project No.: 005117.03 Checked by: RDC

S0101

© 2019 The Cannon Corporation

FIGURE 3



1 LEVEL 01 OVERALL PLAN AND SLAB ON GROUND
1/8" = 1'-0"

FIGURE 4

© 2019 The Cannon Corporation
All rights reserved. No part of this document may be reproduced or utilized in any form, without prior written permission of The Cannon Corporation.
7/22/2019 3:04:55 PM

201 ELLICOTT STREET

RESIDENTIAL BUILDING

Ciminelli REAL ESTATE CORPORATION

CANNONDESIGN
2170 Whitehaven Road
Grand Island, New York 14072
T: 716.773.6800
F: 716.773.5909

Watts Architecture & Engineering
Civil Engineer
5 Perry St #300
Buffalo, NY 14203
(716) 206-5100

Wendel
Traffic Engineer & Landscape Architecture
375 Essjay Rd
Buffalo, NY 14221
(716) 688-0766

NOT FOR CONSTRUCTION

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

KEY PLAN

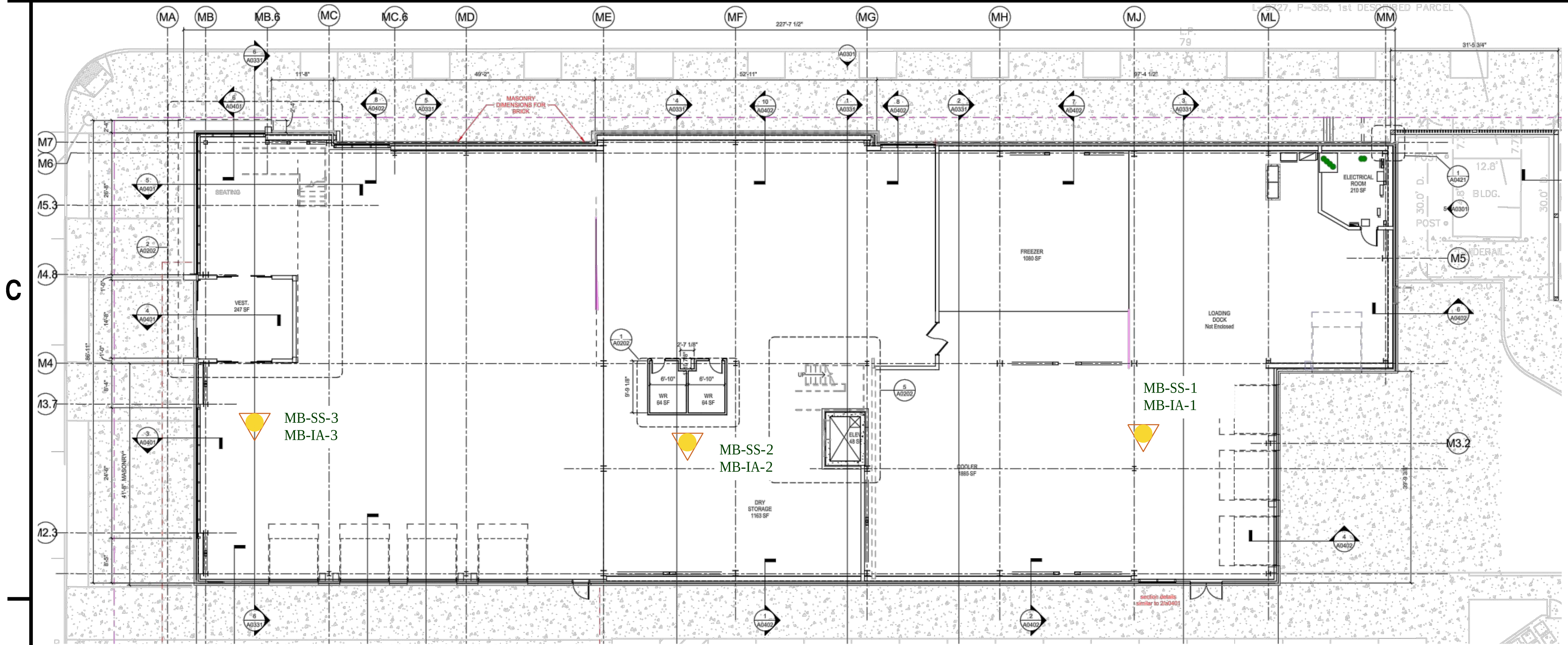
Drawing Title:

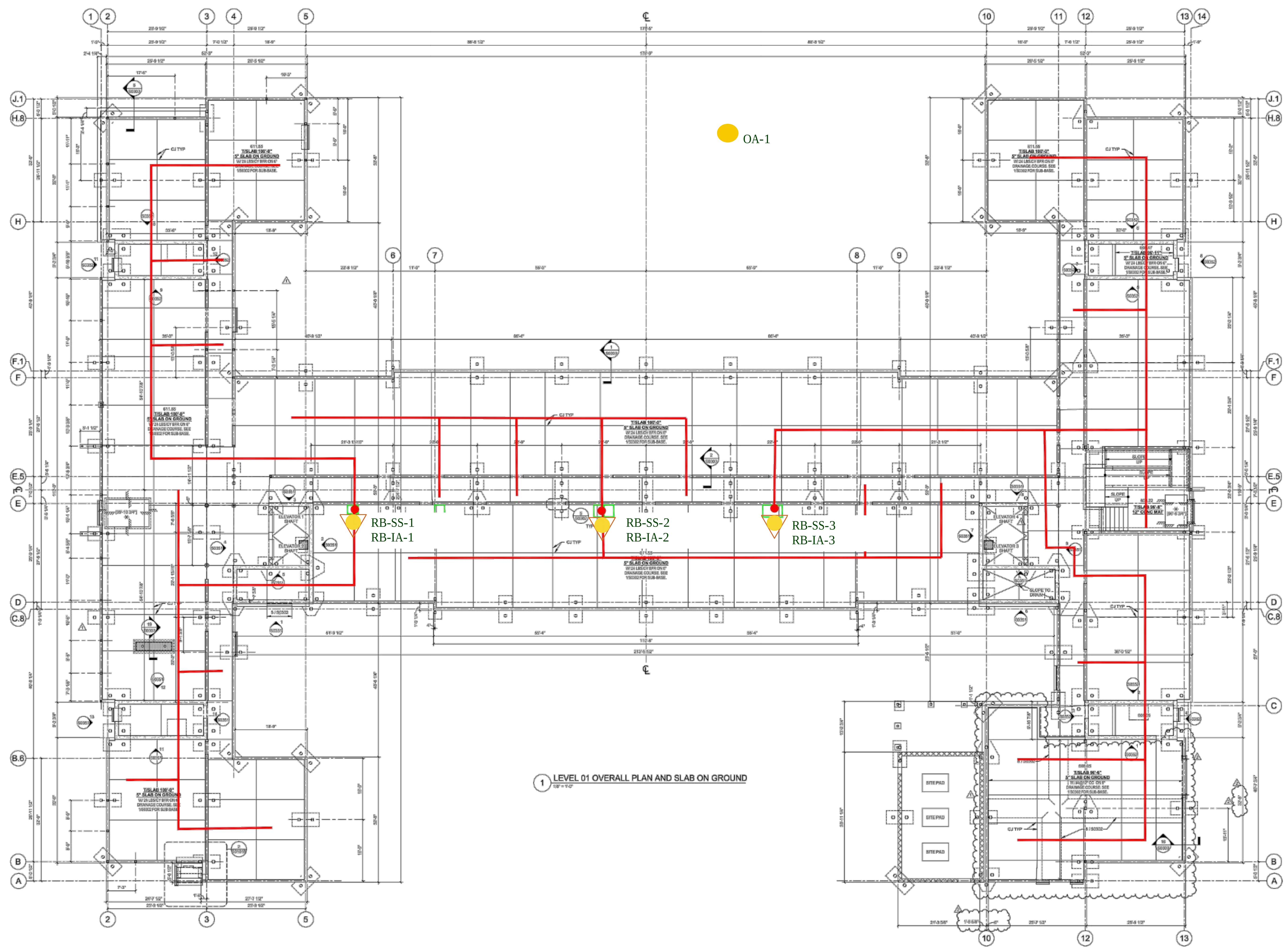
LEVEL 01 OVERALL PLAN AND SLAB ON GROUND

Project No.: 005117.03 Checked by:

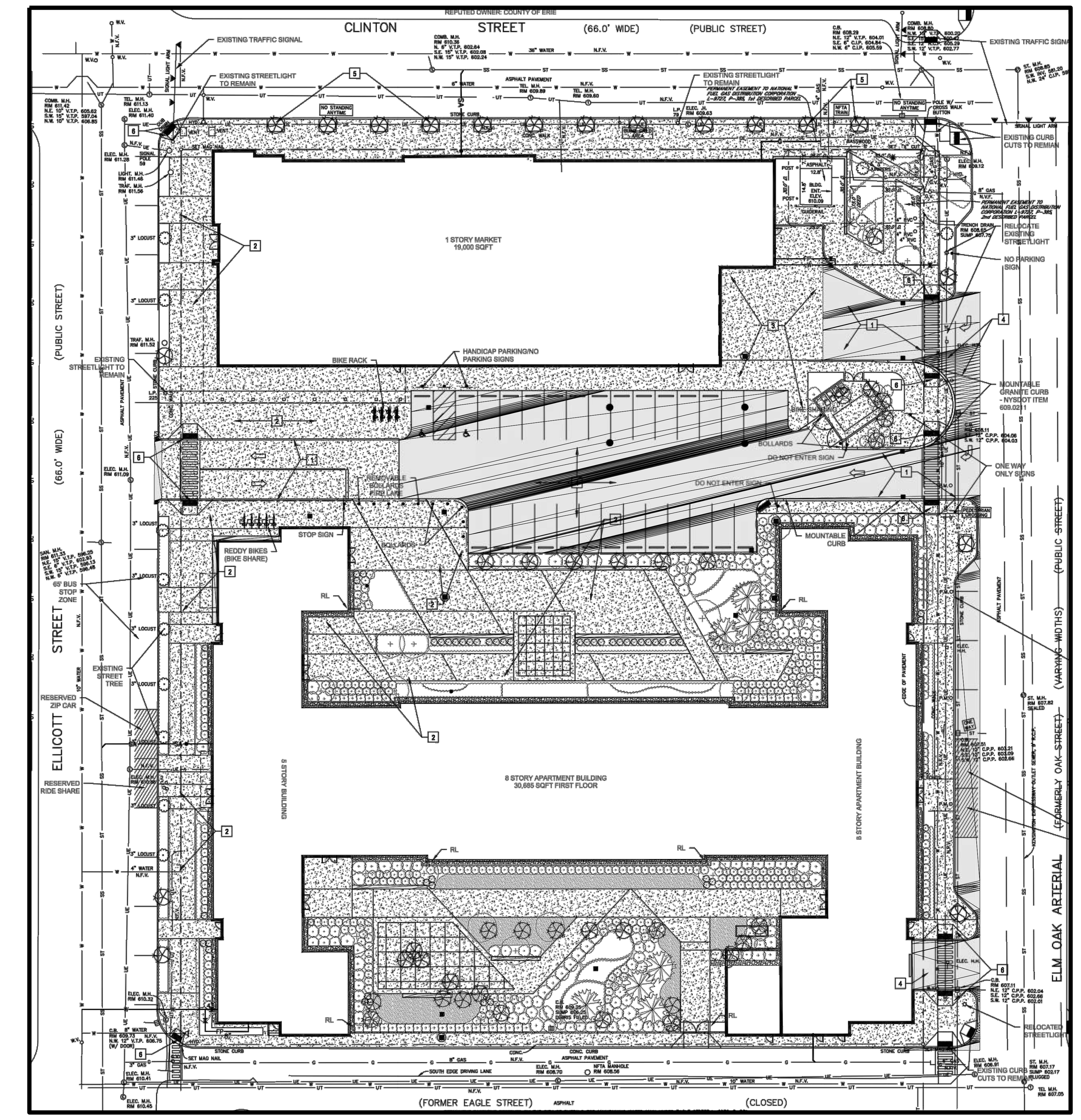
S0101

© 2019 The Cannon Corporation





OVERVIEW MAP



LEGEND

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

NOTES

1) PASSIVE SUB-SLAB DEPRESSURIZATION DESIGN LAYOUT, BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC, NOVEMBER 2019.

2)MARKET BUILDING - GROUND LEVEL PLAN - CORE AND SHELL, CANNON DESIGN, JULY 22, 2019.

3) CIVIL SITE PLAN, CANNON DESIGN, JULY 22, 2019.

C&S COMPANIES®

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

N

201 ELLIOTT STREET SITE BROWNFIELD CLEANUP PROGRAM SITE NO. C915331

CITY OF BUFFALO, NY

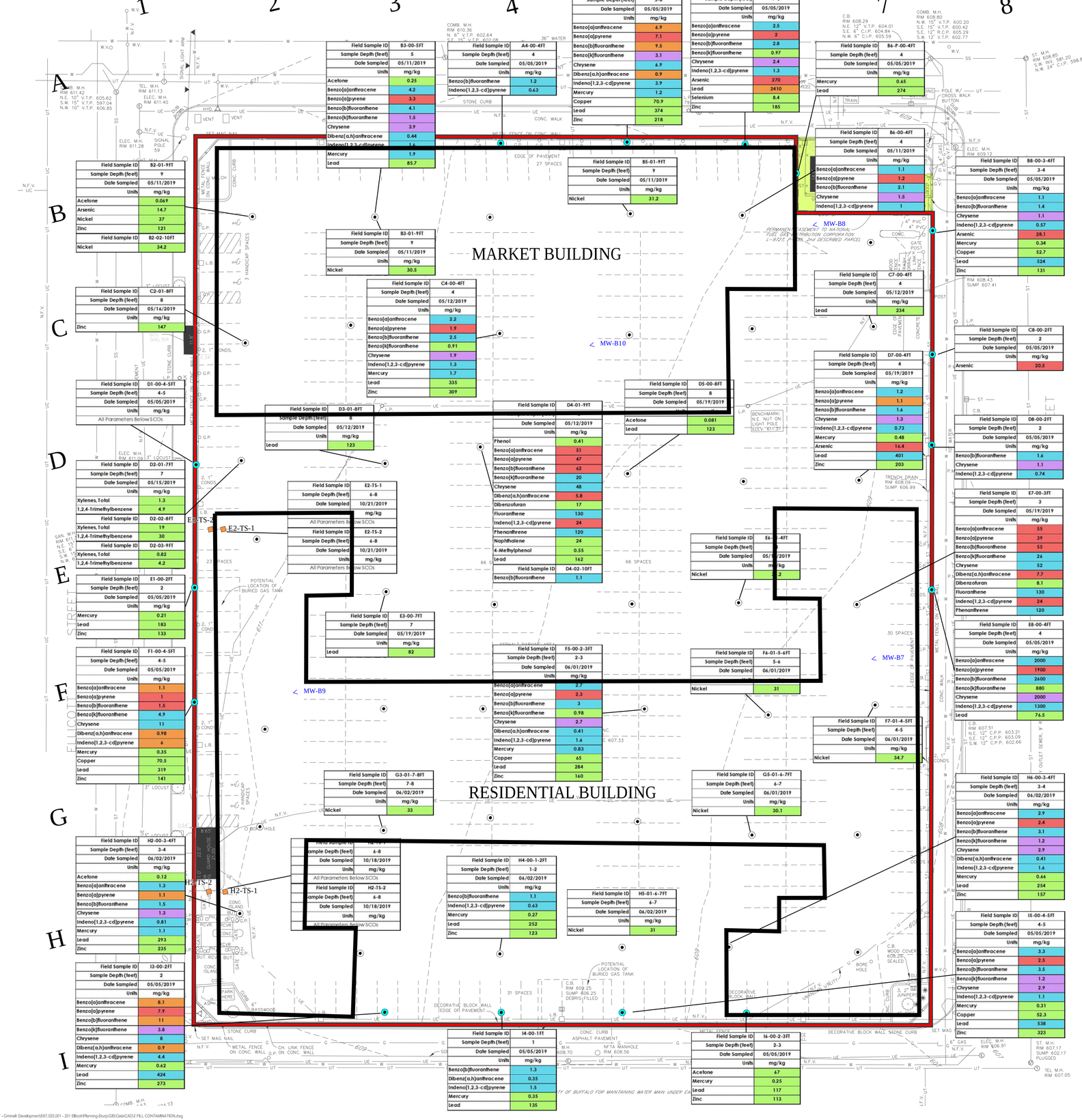
MARK	DATE	DESCRIPTION
REVISIONS		

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 5



LEGEND

BROWNFIELD CLEANUP PROGRAM (BCP) BOUNDARY / AREA OF EXCAVATION

PROPERTY SURVEY

- UE — UNDERGROUND ELECTRIC
- UT — UNDERGROUND TELEPHONE
- UC — UNDERGROUND COMMUNICATIONS
- SS — SANITARY SEWER
- ST — STORM SEWER
- W — WATER
- G — GAS
- U — UNKNOWN UNDERGROUND UTILITY
- X — FENCE
- GUIDERAIL
- TRAFFIC LIGHT
- L.P. — LIGHT POLE
- L.B. — LIGHT BASE ONLY
- C.B. — CATCH BASIN
- COMB. M.H. — COMBINATION MANHOLE
- ST. M.H. — STORM MANHOLE
- P.M. — PARKING METER
- RCVR. — PARKING RECEIVER
- BUT. — PARKING BUTTON
- G.P. — GUARD POST
- C.O. — CLEANOUT
- G.V. — GAS VALVE
- W.V. — WATER VALVE
- HYD. — HYDRANT
- PH. — TELEPHONE
- TEL. M.H. — TELEPHONE MANHOLE
- TRAF. M.H. — TRAFFIC MANHOLE
- LIGHT. M.H. — LIGHTING MANHOLE
- ELEC. M.H. — ELECTRIC MANHOLE
- SIGN
- N.F.V. — NOT FIELD VERIFIED

LABEL LEGEND

Field Sample ID	
Sample Depth (feet)	
Date Sampled	
Units	
ANALYTE CONCENTRATION EXCEED PART 375 SOIL CLEANUP OBJECTIVES	Unrestricted Use
	Residential Use
	Restricted Residential Use
	Commercial Use
	Industrial Use

SAMPLE RESULTS SHOWN INDICATE DEEPEST INTERVAL WITH CONCENTRATIONS THAT EXCEED UNRESTRICTED USE SCO. THE NEXT INTERVAL DEPTH DOES NOT CONTAIN CONCENTRATIONS ABOVE UNRESTRICTED USE SCO.

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

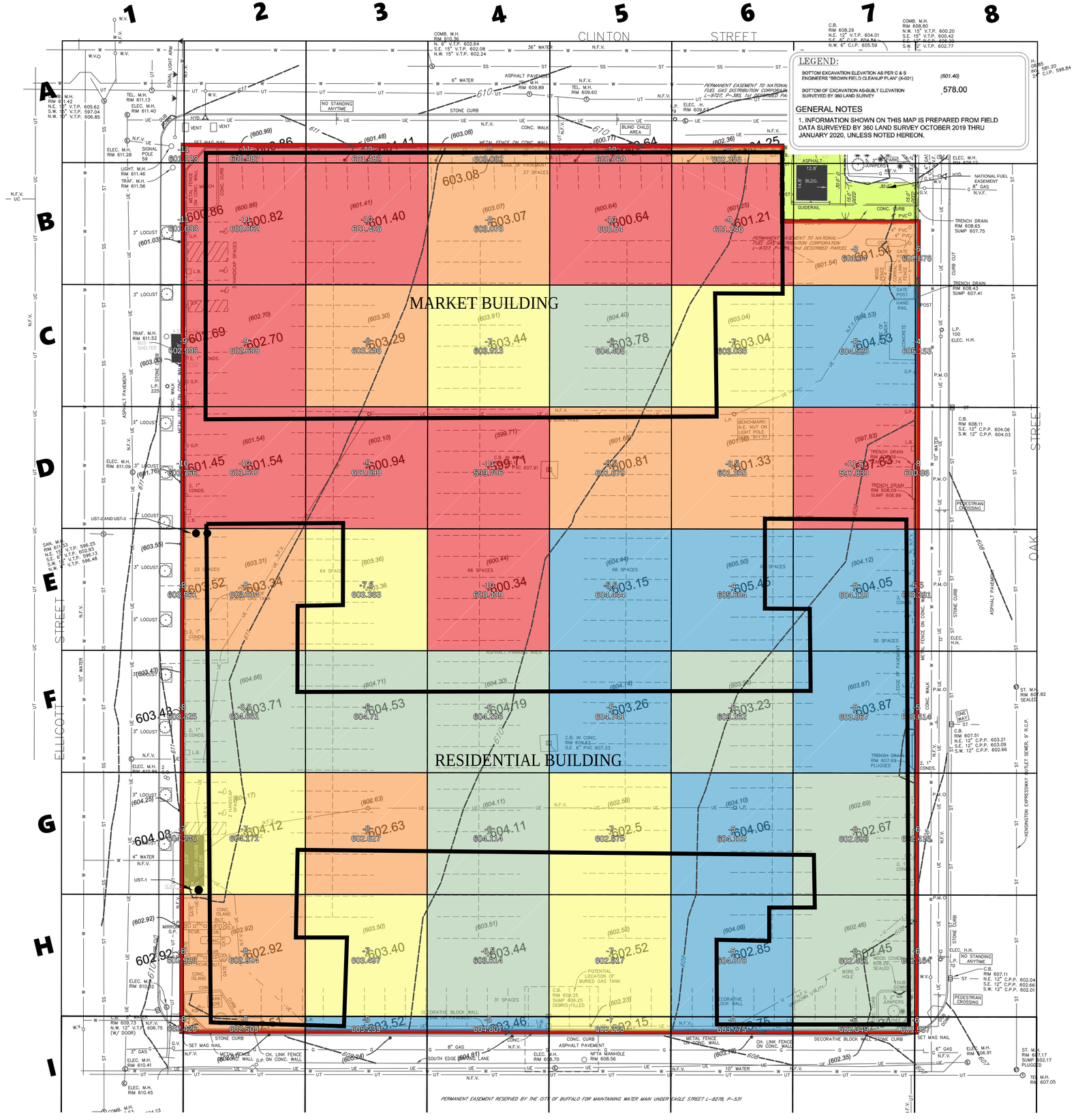
201 ELLIOTT STREET SITE
BROWNFIELD CLEANUP PROGRAM
SITE NO. C915331
CITY OF BUFFALO, NY

PROJECT NO:	E67.020.002
DATE:	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 NEW YORK EDUCATION LAW

CONFIRMATION SAMPLING LOCATIONS

FIGURE 6



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	4020.263	251.266
A3	611.482	363.935	10	601.482	3639.350	227.459
A4	611.082	362.396	8	603.082	2899.171	181.198
A5	610.769	360.863	10	600.769	2886.907	225.540
A6	610.356	325.675	8	602.356	2605.400	162.838
B1	612.033	20.869	11	601.033	229.555	14.347
B2	611.862	2500.008	11	600.862	3608.634	1718.756
B3	611.406	2500.006	10	601.406	25000.058	1562.504
B4	611.078	2500.002	8	603.078	20000.016	1250.001
B5	610.640	2499.996	10	600.640	24999.959	1562.497
B6	610.246	2387.664	9	601.246	21488.979	1343.061
B7	609.540	1307.782	8	601.540	10462.256	653.891
B8	608.876	32.600	6	602.876	195.599	12.225
C1	611.995	23.485	9	602.995	211.361	13.210
C2	611.698	2500.006	9	602.698	22500.053	1406.253
C3	611.296	2499.996	8	603.296	19999.968	1249.998
C4	610.913	2499.996	7	603.913	17499.972	1093.748
C5	610.405	2500.002	6	604.405	15000.012	937.501
C6	610.038	2500.002	7	603.038	17500.014	1093.751
C7	609.525	2499.996	5	604.525	12499.980	781.249
C8	609.153	59.443	4	605.153	237.772	14.861
D1	611.756	26.091	10	601.756	260.908	16.307
D2	611.537	2500.002	10	601.537	25000.020	1562.501
D3	611.098	2499.996	9	602.098	22499.964	1406.248
D4	610.706	2499.996	11	599.706	27499.955	1718.747
D5	610.179	2500.002	8.5	601.679	21250.017	1328.126
D6	609.855	2500.002	8.5	601.355	21250.017	1328.126
D7	609.333	2499.996	11.5	597.833	28749.953	1796.872
D8	608.860	55.605	8	600.860	444.840	27.802
E1	611.551	28.713	8	603.551	229.703	14.356
E2	611.314	2500.002	8	603.314	20000.016	1250.001
E3	610.863	2499.996	7.5	603.363	18749.970	1171.873
E4	610.439	2500.002	10	600.439	25000.020	1562.501
E5	609.944	2499.996	5.5	604.444	13749.978	859.374
E6	609.504	2499.996	4	605.504	9999.984	624.999
E7	609.119	2500.008	5	604.119	12500.040	781.253
E8	608.881	51.766	5.5	603.381	284.712	17.794
F1	611.425	31.327	8	603.425	250.614	15.663
F2	611.161	2499.996	6.5	604.661	16249.974	1015.623
F3	610.710	2500.008	6	604.710	15000.048	937.503
F4	610.296	2500.006	6	604.296	15000.035	937.502
F5	609.741	2500.002	5	604.741	12500.010	781.251
F6	609.262	2500.002	6	603.262	15000.012	937.501
F7	608.867	2499.996	5	603.867	12499.980	781.249
F8	608.614	47.936	5	603.614	239.682	14.980
G1	611.246	33.935	7	604.246	237.544	14.847
G2	611.171	2500.002	7	604.171	17500.014	1093.751
G3	610.627	2499.996	8	602.627	19999.968	1249.998
G4	610.114	2499.996	6	604.114	14999.976	937.498
G5	609.575	2499.996	7	602.575	17499.972	1093.748
G6	609.102	2500.012	5	604.102	12500.059	781.254
G7	608.693	2499.996	6	602.693	14999.976	937.498
G8	608.416	44.106	6	602.416	264.638	16.540
H1	610.918	36.551	8	602.918	292.408	18.276
H2	610.924	2500.012	8	602.924	20000.095	1250.006
H3	610.497	2499.996	7	603.497	17499.972	1093.748
H4	610.014	2499.996	6.5	603.514	16249.974	1015.623
H5	609.517	2499.996	7	602.517	17499.972	1093.748
H6	609.078	2500.002	5	604.078	12500.010	781.251
H7	608.461	2500.002	6	602.461	15000.012	937.501
H8	608.164	40.277	6	602.164	241.664	15.104
I1	610.426	4.773	8	602.426	38.183	2.386
I2	610.509	313.871	8	602.509	2510.969	156.936
I3	610.239	314.049	5	605.239	1570.247	98.140
I4	609.807	314.215	5	604.807	1571.073	98.192
I5	609.229	314.376	7	602.229	2200.635	137.540
I6	608.775	314.539	5	603.775	1572.694	98.293
I7	608.349	314.705	6	602.349	1888.229	118.014
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 = 770,394.019
POTENTIAL TONNAGE = 49,687.950

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

FINAL TONNAGE = 50,971

50' X 50' EXCAVATION GRID

EXCAVATION (FEET)

- 4.00 - 5.50
- 5.51 - 6.50
- 6.51 - 7.50
- 7.51 - 8.50
- 8.51 - 11.50

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 COMPANIES®
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 7

STATE OF NEW YORK
JOHN T. CAMPBELL
No. 092325
LICENSED PROFESSIONAL ENGINEER

WEATHER DATA

42.91 °N, **78.76** °W

South Cheektowaga, NY Weather History

48° BUFFALO NIAGARA INTERNATIONAL AIRPORT STATION (/DASHBOARD/PWS/KNYBUFFA119?CM_VEN=LOCALWX_PWSDASH) | CHANGE

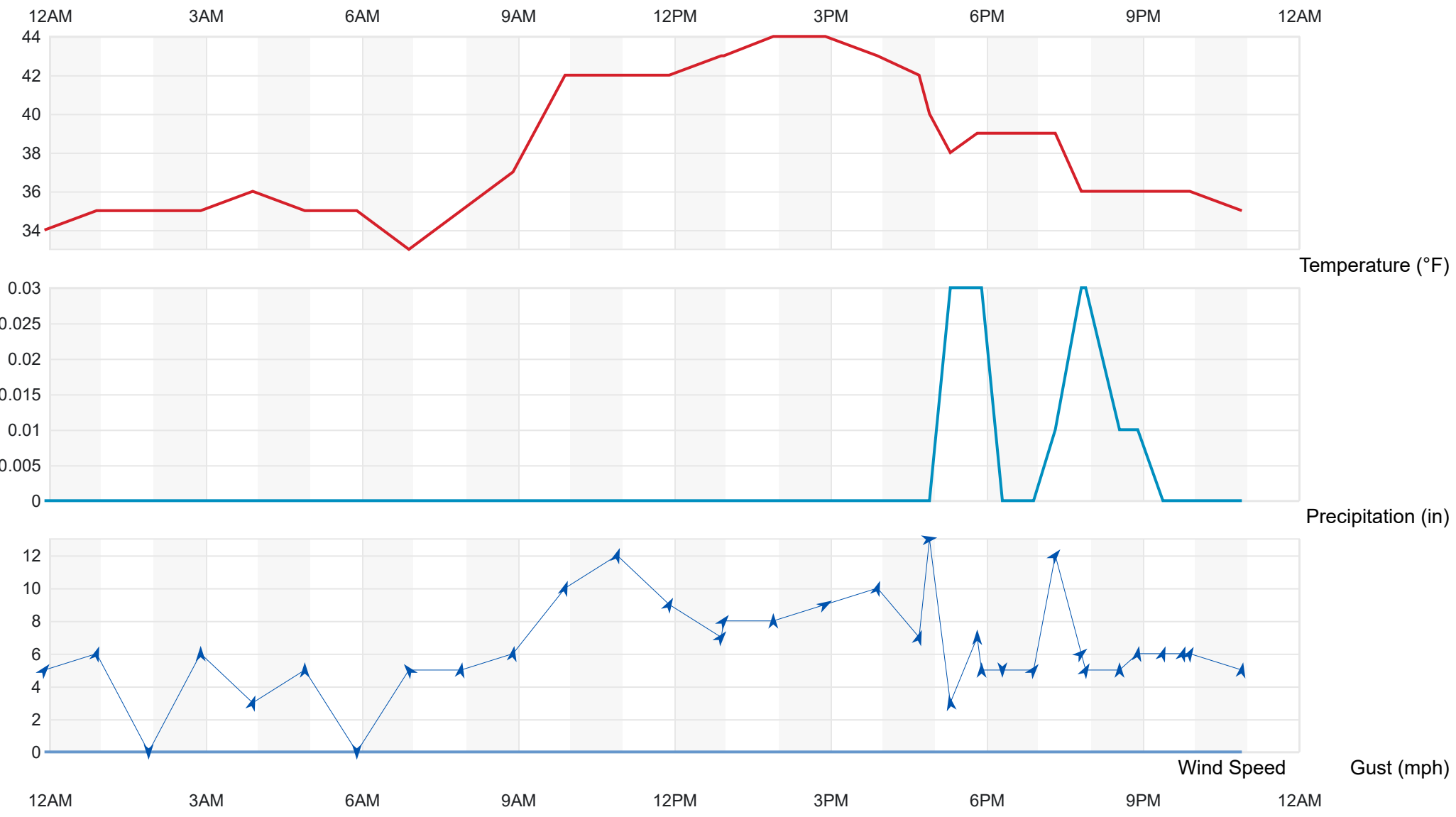
HISTORY (/HISTORY/DAILY/US/NY/SOUTH-CHEEKTOWAGA/KBUF)

- 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)

Daily Weekly Monthly

(/history/daily/us/ny/south-cheektowaga/KBUF/date/2021-11-4) (/history/weekly/us/ny/south-cheektowaga/KBUF/date/2021-11-4) (/history/monthly/us/ny/south-cheektowaga/KBUF/date/2021-11)

November | 4 | 2021 | View



Summary

Temperature (° F)	Actual	Historic Avg.	Record
High Temp	44	52.3	73
Low Temp	33	37.8	20
Day Average Temp	38.09	45	-
Precipitation (Inches)	Actual	Historic Avg.	Record
Precipitation (past 24 hours from 04:54:00)	0.00	4.50	-

Temperature (° F)	Actual	Historic Avg.	Record
Dew Point (° F)	Actual	Historic Avg.	Record
Dew Point	32.41	-	-
High	36	-	-
Low	29	-	-
Average	32.41	-	-
Wind (MPH)	Actual	Historic Avg.	Record
Max Wind Speed	13	-	-
Visibility	10	-	-
Sea Level Pressure (Hg)	Actual	Historic Avg.	Record
Sea Level Pressure	29.54	-	-
Astronomy	Day Length	Rise	Set
Actual Time	10h 10m	7:54 AM	6:05 PM
Civil Twilight		7:25 AM	6:34 PM
Nautical Twilight		6:51 AM	7:08 PM
Astronomical Twilight		6:18 AM	7:41 PM
Moon: waning crescent		7:24 AM	6:07 PM

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
11:54 PM	34 °F	30 °F	85 %	SW	5 mph	0 mph	29.52 in	0.0 in	Partly Cloudy
12:54 AM	35 °F	31 °F	85 %	SSW	6 mph	0 mph	29.52 in	0.0 in	Mostly Cloudy
1:54 AM	35 °F	32 °F	89 %	CALM	0 mph	0 mph	29.52 in	0.0 in	Mostly Cloudy
2:54 AM	35 °F	31 °F	85 %	S	6 mph	0 mph	29.52 in	0.0 in	Cloudy
3:54 AM	36 °F	32 °F	86 %	SSW	3 mph	0 mph	29.51 in	0.0 in	Cloudy
4:54 AM	35 °F	31 °F	85 %	S	5 mph	0 mph	29.52 in	0.0 in	Partly Cloudy
5:54 AM	35 °F	31 °F	85 %	CALM	0 mph	0 mph	29.51 in	0.0 in	Fair
6:54 AM	33 °F	30 °F	89 %	SE	5 mph	0 mph	29.52 in	0.0 in	Partly Cloudy
7:54 AM	35 °F	32 °F	89 %	S	5 mph	0 mph	29.54 in	0.0 in	Mostly Cloudy
8:54 AM	37 °F	32 °F	82 %	S	6 mph	0 mph	29.53 in	0.0 in	Mostly Cloudy
9:54 AM	42 °F	33 °F	70 %	SSW	10 mph	0 mph	29.52 in	0.0 in	Mostly Cloudy
10:54 AM	42 °F	32 °F	67 %	SSW	12 mph	0 mph	29.53 in	0.0 in	Mostly Cloudy
11:54 AM	42 °F	31 °F	65 %	SSW	9 mph	0 mph	29.52 in	0.0 in	Mostly Cloudy
12:54 PM	43 °F	30 °F	60 %	SW	7 mph	0 mph	29.50 in	0.0 in	Cloudy
12:57 PM	43 °F	29 °F	58 %	SW	8 mph	0 mph	29.50 in	0.0 in	Cloudy
1:54 PM	44 °F	29 °F	55 %	S	8 mph	0 mph	29.49 in	0.0 in	Cloudy
2:54 PM	44 °F	29 °F	55 %	WSW	9 mph	0 mph	29.48 in	0.0 in	Cloudy
3:54 PM	43 °F	29 °F	58 %	SSW	10 mph	0 mph	29.47 in	0.0 in	Cloudy
4:42 PM	42 °F	33 °F	70 %	SSW	7 mph	0 mph	29.48 in	0.0 in	Light Rain
4:54 PM	40 °F	34 °F	79 %	W	13 mph	0 mph	29.48 in	0.0 in	Rain
5:18 PM	38 °F	35 °F	89 %	S	3 mph	0 mph	29.49 in	0.0 in	Light Rain
5:49 PM	39 °F	36 °F	87 %	S	7 mph	0 mph	29.49 in	0.0 in	Light Rain
5:54 PM	39 °F	36 °F	89 %	S	5 mph	0 mph	29.49 in	0.0 in	Light Rain
6:18 PM	39 °F	35 °F	86 %	VAR	5 mph	0 mph	29.49 in	0.0 in	Light Rain
6:54 PM	39 °F	35 °F	86 %	SW	5 mph	0 mph	29.49 in	0.0 in	Cloudy
7:19 PM	39 °F	35 °F	86 %	SW	12 mph	0 mph	29.49 in	0.0 in	Light Rain

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
7:49 PM	36 °F	34 °F	93 %	SW	6 mph	0 mph	29.49 in	0.0 in	Light Rain
7:54 PM	36 °F	34 °F	93 %	SSW	5 mph	0 mph	29.49 in	0.0 in	Light Rain
8:33 PM	36 °F	34 °F	93 %	S	5 mph	0 mph	29.49 in	0.0 in	Light Rain
8:54 PM	36 °F	33 °F	89 %	S	6 mph	0 mph	29.49 in	0.0 in	Partly Cloudy
9:23 PM	36 °F	34 °F	93 %	SSW	6 mph	0 mph	29.50 in	0.0 in	Mostly Cloudy
9:46 PM	36 °F	34 °F	93 %	SSW	6 mph	0 mph	29.50 in	0.0 in	Partly Cloudy
9:54 PM	36 °F	33 °F	89 %	SSW	6 mph	0 mph	29.50 in	0.0 in	Fair
10:54 PM	35 °F	33 °F	92 %	S	5 mph	0 mph	29.50 in	0.0 in	Fair

42.91 °N, **78.76** °W

South Cheektowaga, NY Weather History

48° BUFFALO NIAGARA INTERNATIONAL AIRPORT STATION (/DASHBOARD/PWS/KNYBUFFA119?CM_VEN=LOCALWX_PWSDASH) | CHANGE

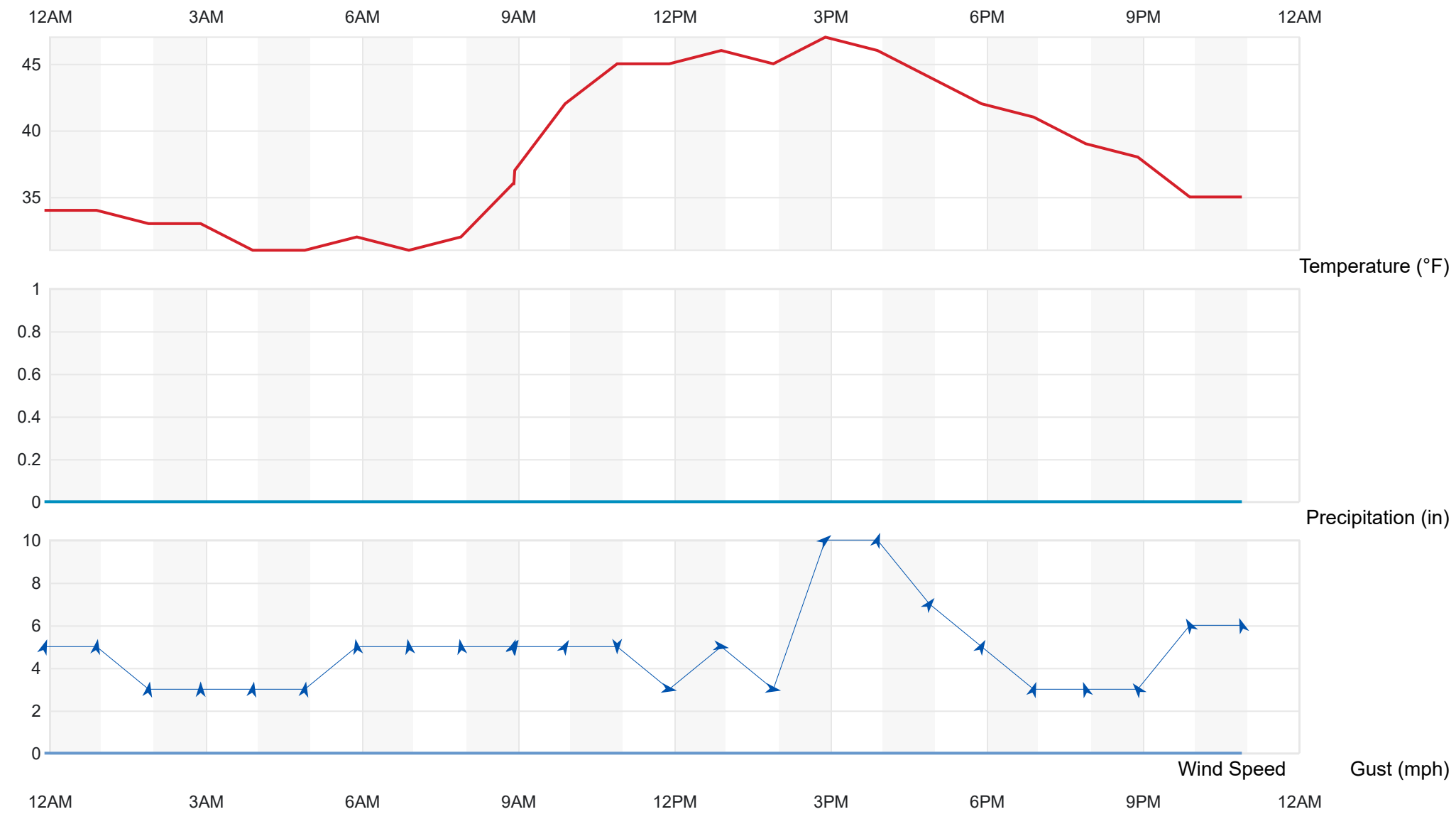
HISTORY (/HISTORY/DAILY/US/NY/SOUTH-CHEEKTOWAGA/KBUF)

- 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)

Daily Weekly Monthly

(/history/daily/us/ny/south-cheektowaga/KBUF/date/2021-11-5) (/history/weekly/us/ny/south-cheektowaga/KBUF/date/2021-11-5) (/history/monthly/us/ny/south-cheektowaga/KBUF/date/2021-11)

November | 5 | 2021 | View



Summary

Temperature (° F)	Actual	Historic Avg.	Record
High Temp	47	51.9	76
Low Temp	31	37.4	12
Day Average Temp	38.08	44.7	-
Precipitation (Inches)	Actual	Historic Avg.	Record
Precipitation (past 24 hours from 11:54:00)	0.07	4.50	-

Temperature (° F)	Actual	Historic Avg.	Record
Dew Point (° F)	Actual	Historic Avg.	Record
Dew Point	28.81	-	-
High	35	-	-
Low	24	-	-
Average	28.81	-	-
Wind (MPH)	Actual	Historic Avg.	Record
Max Wind Speed	10	-	-
Visibility	10	-	-
Sea Level Pressure (Hg)	Actual	Historic Avg.	Record
Sea Level Pressure	29.63	-	-
Astronomy	Day Length	Rise	Set
Actual Time	10h 7m	7:55 AM	6:03 PM
Civil Twilight		7:26 AM	6:33 PM
Nautical Twilight		6:52 AM	7:07 PM
Astronomical Twilight		6:19 AM	7:40 PM
Moon: waxing crescent		8:45 AM	6:41 PM

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
11:54 PM	34 °F	32 °F	92 %	SSW	5 mph	0 mph	29.50 in	0.0 in	Fair
12:54 AM	34 °F	32 °F	92 %	S	5 mph	0 mph	29.50 in	0.0 in	Fair
1:54 AM	33 °F	31 °F	92 %	S	3 mph	0 mph	29.51 in	0.0 in	Fair
2:54 AM	33 °F	30 °F	89 %	S	3 mph	0 mph	29.51 in	0.0 in	Fair
3:54 AM	31 °F	29 °F	92 %	S	3 mph	0 mph	29.52 in	0.0 in	Fair
4:54 AM	31 °F	29 °F	92 %	S	3 mph	0 mph	29.54 in	0.0 in	Fair
5:54 AM	32 °F	29 °F	88 %	S	5 mph	0 mph	29.55 in	0.0 in	Fair
6:54 AM	31 °F	28 °F	89 %	S	5 mph	0 mph	29.58 in	0.0 in	Fair
7:54 AM	32 °F	30 °F	92 %	S	5 mph	0 mph	29.60 in	0.0 in	Fair
8:54 AM	36 °F	33 °F	89 %	SSW	5 mph	0 mph	29.62 in	0.0 in	Fair
8:55 AM	36 °F	33 °F	89 %	SSW	5 mph	0 mph	29.62 in	0.0 in	Fair
8:56 AM	37 °F	33 °F	86 %	SSW	5 mph	0 mph	29.62 in	0.0 in	Fair
9:54 AM	42 °F	35 °F	76 %	SSW	5 mph	0 mph	29.62 in	0.0 in	Fair
10:54 AM	45 °F	32 °F	60 %	VAR	5 mph	0 mph	29.63 in	0.0 in	Fair
11:54 AM	45 °F	26 °F	48 %	W	3 mph	0 mph	29.62 in	0.0 in	Fair
12:54 PM	46 °F	24 °F	42 %	W	5 mph	0 mph	29.61 in	0.0 in	Fair
1:54 PM	45 °F	25 °F	46 %	W	3 mph	0 mph	29.59 in	0.0 in	Fair
2:54 PM	47 °F	26 °F	44 %	SW	10 mph	0 mph	29.58 in	0.0 in	Fair
3:54 PM	46 °F	26 °F	46 %	SSW	10 mph	0 mph	29.58 in	0.0 in	Fair
4:54 PM	44 °F	27 °F	51 %	SW	7 mph	0 mph	29.58 in	0.0 in	Fair
5:54 PM	42 °F	26 °F	53 %	SSW	5 mph	0 mph	29.60 in	0.0 in	Fair
6:54 PM	41 °F	26 °F	55 %	SSW	3 mph	0 mph	29.60 in	0.0 in	Fair
7:54 PM	39 °F	27 °F	62 %	SSE	3 mph	0 mph	29.59 in	0.0 in	Fair
8:54 PM	38 °F	27 °F	65 %	SE	3 mph	0 mph	29.57 in	0.0 in	Fair
9:54 PM	35 °F	27 °F	72 %	SSE	6 mph	0 mph	29.57 in	0.0 in	Fair
10:54 PM	35 °F	26 °F	70 %	SSE	6 mph	0 mph	29.56 in	0.0 in	Fair

DATA SUMMARY

TABLE 1B

RESIDENCE BUILDING
SUB-SLAB AND INDOOR AIR RESULTS
BCP SITE C915331

SAMPLE ID:	RB-SS-01			RB-IA-01			RB-SS-02			RB-IA-02			RB-SS-03			RB-IA-03			OA-01		
COLLECTION DATE:	11/6/2021			11/6/2021			11/6/2021			11/6/2021			11/6/2021			11/6/2021			11/6/2021		
SAMPLE MATRIX:	SS			AIR			SS			AIR			SS			AIR			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	1.46		0.989	1.88		0.989	ND		278	1.9		0.989	1.5		0.989	1.9		0.989	1.8		0.989
Chloromethane	ND		0.413	0.962		0.413	ND		116	0.931		0.413	1.36		0.413	0.944		0.413	0.855		0.413
Freon-114	ND		1.4	ND		1.4	ND		393	ND		1.4	ND		1.4	ND		1.4	ND		1.4
Vinyl chloride	ND		0.511	-		-	ND		144	-		-	ND		0.511	-	-	-	-	-	-
1,3-Butadiene	ND		0.442	ND		0.442	ND		124	ND		0.442	ND		0.442	ND		0.442	ND		0.442
Bromomethane	ND		0.777	ND		0.777	ND		218	ND		0.777	ND		0.777	ND		0.777	ND		0.777
Chloroethane	ND		0.528	ND		0.528	ND		148	ND		0.528	ND		0.528	ND		0.528	ND		0.528
Ethanol	ND		9.42	59.2		9.42	ND		2640	51.3		9.42	ND		9.42	57.8		9.42	ND		9.42
Vinyl bromide	ND		0.874	ND		0.874	ND		246	ND		0.874	ND		0.874	ND		0.874	ND		0.874
Acetone	16.8		2.38	314		2.38	13100		668	249		2.38	656		2.38	285		2.38	4.44		2.38
Trichlorofluoromethane	ND		1.12	1.15		1.12	ND		316	ND		1.12	ND		1.12	ND		1.12	ND		1.12
Isopropanol	ND		1.23	10.8		1.23	ND		344	9.93		1.23	ND		1.23	11.9		1.23	1.32		1.23
1,1-Dichloroethene	ND		0.793	-		-	ND		223	-		-	ND		0.793	-	-	-	-	-	-
Tertiary butyl Alcohol	ND		1.52	5.31		1.52	ND		424	3.73		1.52	ND		1.52	4.06		1.52	ND		1.52
Methylene chloride	ND		1.74	ND		1.74	ND		486	3.1		1.74	ND		1.74	ND		1.74	ND		1.74
3-Chloropropene	ND		0.626	ND		0.626	ND		176	ND		0.626	ND		0.626	ND		0.626	ND		0.626
Carbon disulfide	ND		0.623	ND		0.623	ND		175	ND		0.623	ND		0.623	ND		0.623	ND		0.623
Freon-113	ND		1.53	ND		1.53	ND		431	ND		1.53	ND		1.53	ND		1.53	ND		1.53
trans-1,2-Dichloroethene	ND		0.793	ND		0.793	ND		223	ND		0.793	ND		0.793	ND		0.793	ND		0.793
1,1-Dichloroethane	ND		0.809	ND		0.809	ND		227	ND		0.809	ND		0.809	ND		0.809	ND		0.809
Methyl tert butyl ether	ND		0.721	ND		0.721	ND		203	ND		0.721	ND		0.721	ND		0.721	ND		0.721
2-Butanone	12.4		1.47	4.69		1.47	5960		413	3.92		1.47	481	E	1.47	3.98		1.47	ND		1.47
cis-1,2-Dichloroethene	ND		0.793	-		-	ND		223	-		-	ND		0.793	-	-	-	-	-	-
Ethyl Acetate	ND		1.8	10.1		1.8	ND		505	4.22		1.8	2		1.8	3.58		1.8	ND		1.8
Chloroform	ND		0.977	ND		0.977	ND		274	ND		0.977	ND		0.977	ND		0.977	ND		0.977
Tetrahydrofuran	2.19		1.47	12.4		1.47	55400		413	9.85		1.47	1310	E	1.47	8.32		1.47	ND		1.47
1,2-Dichloroethane	ND		0.809	ND		0.809	ND		227	ND		0.809	ND		0.809	ND		0.809	ND		0.809
n-Hexane	4.76		0.705	1.2		0.705	ND		198	1.56		0.705	4.16		0.705	1.18		0.705	ND		0.705
1,1,1-Trichloroethane	ND		1.09	-		-	ND		307	-		-	ND		1.09	-	-	-	-	-	-
Benzene	3.03		0.639	ND		0.639	ND		180	ND		0.639	2.74		0.639	ND		0.639	ND		0.639
Carbon tetrachloride	ND		1.26	-		-	ND		354	-		-	ND		1.26	-	-	-	-	-	-
Cyclohexane	6.95		0.688	ND		0.688	ND		193	ND		0.688	7.43		0.688	ND		0.688	ND		0.688
1,2-Dichloropropane	ND		0.924	ND		0.924	ND		260	ND		0.924	ND		0.924	ND		0.924	ND		0.924
Bromodichloromethane	ND		1.34	ND		1.34	ND		377	ND		1.34	ND		1.34	ND		1.34	ND		1.34
1,4-Dioxane	ND		0.721	ND		0.721	ND		203	ND		0.721	ND		0.721	ND		0.721	ND		0.721
Trichloroethene	ND		1.07	-		-	ND		302	-		-	ND		1.07	-	-	-	-	-	-
2,2,4-Trimethylpentane	1.33		0.934	ND		0.934	ND		262	ND		0.934	ND		0.934	ND		0.934	ND		0.934
Heptane	7.13		0.82	46.7		0.82	ND		230	38.4		0.82	5.08		0.82	45.1		0.82	ND		0.82
cis-1,3-Dichloropropene	ND		0.908	ND		0.908	ND		255	ND		0.908	ND		0.908	ND		0.908	ND		0.908
4-Methyl-2-pentanone	ND		2.05	2.31		2.05	ND		574	ND		2.05	ND		2.05	2.26		2.05	ND		2.05
trans-1,3-Dichloropropene	ND		0.908	ND		0.908	ND		255	ND		0.908	ND		0.908	ND		0.908	ND		0.908
1,1,2-Trichloroethane	ND		1.09	ND		1.09	ND		307	ND		1.09	ND		1.09	ND		1.09	ND		1.09
Toluene	71.6		0.754	101		0.754	ND		212	83.3		0.754	61.8		0.754	96.5		0.754	1.39		0.754
2-Hexanone	2.97		0.82	ND		0.82	ND		230	ND		0.82	1.28		0.82	ND		0.82	ND		0.82
Dibromochloromethane	ND		1.7	ND		1.7	ND		479	ND		1.7	ND		1.7	ND		1.7	ND		1.7
1,2-Dibromoethane	ND		1.54	ND		1.54	ND		432	ND		1.54	ND		1.54	ND		1.54	ND		1.54
Tetrachloroethene	ND		1.36	-		-	ND		381	-		-	ND		1.36	-	-	-	-	-	-
Chlorobenzene	ND		0.921	ND		0.921	ND		259	ND		0.921	ND		0.921	ND		0.921	ND		0.921
Ethylbenzene	18.5		0.869	0.999		0.869	ND		244	0.947		0.869	16.4		0.869	1.16		0.869	ND		0.869
p/m-Xylene	69.9		1.74	3.92		1.74	ND		486	3.79		1.74	64.3		1.74	4.56		1.74	ND		1.74
Bromoform	ND		2.07	ND		2.07	ND		581	ND		2.07	ND		2.07	ND		2.07	ND		2.07
Styrene	1.22		0.852	1.34		0.852	ND		239	1.14		0.852	1.2		0.852	1.22		0.852	ND		0.852
1,1,2,2-Tetrachloroethane	ND		1.37	ND		1.37	ND		386	ND		1.37	ND		1.37	ND		1.37	ND		1.37
o-Xylene	24.4		0.869	1.22		0.869	ND		244	1.16		0.869	22.2		0.869	1.36		0.869	ND		0.869
4-Ethyltoluene	5.8		0.983	ND		0.983	ND		276	ND		0.983	5.41		0.983	ND		0.983	ND		0.983
1,3,5-Trimethylbenzene	4.69		0.983	ND		0.983	ND		276	ND		0.983	4.25		0.983	ND		0.983	ND		0.983
1,2,4-Trimethylbenzene	20.3		0.983	ND		0.983	ND		276	ND		0.983	18.9		0.983	ND		0.983	ND		0.983
Benzyl chloride	ND		1.04	ND		1.04	ND		291	ND		1.04	ND		1.04	ND		1.04	ND		1.04
1,3-Dichlorobenzene	ND		1.2	ND		1.2	ND		338	ND		1.2	ND		1.2	ND		1.2	ND		1.2
1,4-Dichlorobenzene	ND		1.2	ND		1.2	ND		338	ND		1.2	ND		1.2	ND		1.2	ND		1.2
1,2-Dichlorobenzene	ND		1.2	ND		1.2	ND		338	ND		1.2	ND		1.2	ND		1.2	ND		1.2
1,2,4-Trichlorobenzene	ND		1.48	ND		1.48	ND		417	ND		1.48	ND		1.48	ND		1.48	ND		1.48
Hexachlorobutadiene	ND		2.13	ND		2.13	ND		599	ND		2.13	ND		2.13	ND		2.13	ND		2.13
Vinyl chloride	-		-	ND		0.051	-		-	ND		0.051	-		-	ND		0.051	ND		0.051
1,1-Dichloroethene	-		-	ND		0.079	-		-	ND		0.079	-		-	ND		0.079	ND		0.079
cis-1,2-Dichloroethene	-		-	ND		0.079	-		-	ND		0.079	-		-	ND		0.079	ND		0.079
1,1,1-Trichloroethane	-		-	ND		0.109	-		-	ND		0.109	-		-	ND		0.109	ND		0.109
Carbon tetrachloride	-		-	0.377		0.126	-		-	0.403		0.126	-		-	0.34		0.126	0.365		0.126
Trichloroethene	-		-	ND		0.107	-		-	ND		0.107	-		-	ND		0.107	ND		0.107
Tetrachloroethene	-		-	0.17		0.136	-		-	0.278		0.136	-		-	0.339		0.136	0.312		0.136

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

TABLE 1A

MARKET BUILDING
SUB-SLAB AND INDOOR AIR RESULTS
BCP SITE C915331

SAMPLE ID:	MB-SS-01			MB-IA-01			MB-SS-02			MB-IA-02			MB-SS-03			MB-IA-03		
COLLECTION DATE:	11/6/2021			11/6/2021			11/6/2021			11/6/2021			11/6/2021			11/6/2021		
SAMPLE MATRIX:	SS			AIR			SS			AIR			SS			AIR		
	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL
VOLATILE ORGANICS																		
Dichlorodifluoromethane	1.84		0.989	1.84		0.989	1.61		0.989	1.97		0.989	1.43		1.11	2.06		0.989
Chloromethane	ND		0.413	0.971		0.413	ND		0.413	0.993		0.413	ND		0.465	1.05		0.413
Freon-114	ND		1.4	ND		1.4	ND		1.4	ND		1.4	ND		1.57	ND		1.4
Vinyl chloride	ND		0.511	-		-	ND		0.511	-		-	ND		0.575	-		-
1,3-Butadiene	ND		0.442	ND		0.442	ND		0.442	ND		0.442	ND		0.498	ND		0.442
Bromomethane	ND		0.777	ND		0.777	ND		0.777	ND		0.777	ND		0.874	ND		0.777
Chloroethane	ND		0.528	ND		0.528	ND		0.528	ND		0.528	ND		0.594	ND		0.528
Ethanol	93.8		9.42	217		9.42	ND		9.42	222		9.42	138		10.6	358		9.42
Vinyl bromide	ND		0.874	ND		0.874	ND		0.874	ND		0.874	ND		0.984	ND		0.874
Acetone	25.9		2.38	13.9		2.38	18.8		2.38	30.4		2.38	48.5		2.66	12.6		2.38
Trichlorofluoromethane	ND		1.12	ND		1.12	ND		1.12	1.12		1.12	ND		1.26	1.19		1.12
Isopropanol	16.7		1.23	48.9		1.23	ND		1.23	53.6		1.23	4.42		1.38	7.94		1.23
1,1-Dichloroethene	ND		0.793	-		-	ND		0.793	-		-	ND		0.892	-		-
Tertiary butyl Alcohol	ND		1.52	ND		1.52	ND		1.52	ND		1.52	ND		1.7	ND		1.52
Methylene chloride	ND		1.74	ND		1.74	ND		1.74	ND		1.74	ND		1.95	ND		1.74
3-Chloropropene	ND		0.626	ND		0.626	ND		0.626	ND		0.626	ND		0.704	ND		0.626
Carbon disulfide	ND		0.623	ND		0.623	ND		0.623	ND		0.623	ND		0.701	ND		0.623
Freon-113	ND		1.53	ND		1.53	ND		1.53	ND		1.53	ND		1.72	ND		1.53
trans-1,2-Dichloroethene	ND		0.793	ND		0.793	ND		0.793	ND		0.793	ND		0.892	ND		0.793
1,1-Dichloroethane	ND		0.809	ND		0.809	ND		0.809	ND		0.809	ND		0.911	ND		0.809
Methyl tert butyl ether	ND		0.721	ND		0.721	ND		0.721	ND		0.721	ND		0.811	ND		0.721
2-Butanone	18.8		1.47	ND		1.47	34.8		1.47	14.3		1.47	29.8		1.66	ND		1.47
cis-1,2-Dichloroethene	ND		0.793	-		-	ND		0.793	-		-	ND		0.892	-		-
Ethyl Acetate	ND		1.8	7.24		1.8	ND		1.8	2.3		1.8	2.16		2.03	2.02		1.8
Chloroform	5.57		0.977	4.08		0.977	1.72		0.977	9.43		0.977	1.47		1.1	ND		0.977
Tetrahydrofuran	ND		1.47	2.43		1.47	ND		1.47	ND		1.47	ND		1.66	ND		1.47
1,2-Dichloroethane	ND		0.809	ND		0.809	ND		0.809	ND		0.809	ND		0.911	ND		0.809
n-Hexane	71.9		0.705	0.811		0.705	9.09		0.705	ND		0.705	76.1		0.793	ND		0.705
1,1,1-Trichloroethane	ND		1.09	-		-	ND		1.09	-		-	ND		1.23	-		-
Benzene	2.62		0.639	ND		0.639	3.26		0.639	0.7		0.639	3.35		0.719	ND		0.639
Carbon tetrachloride	ND		1.26	-		-	ND		1.26	-		-	ND		1.42	-		-
Cyclohexane	89.2		0.688	ND		0.688	12.7		0.688	ND		0.688	66.1		0.774	ND		0.688
1,2-Dichloropropane	ND		0.924	ND		0.924	ND		0.924	ND		0.924	ND		1.04	ND		0.924
Bromodichloromethane	ND		1.34	ND		1.34	ND		1.34	ND		1.34	ND		1.51	ND		1.34
1,4-Dioxane	ND		0.721	ND		0.721	ND		0.721	1.59		0.721	ND		0.811	ND		0.721
Trichloroethene	ND		1.07	-		-	ND		1.07	-		-	ND		1.21	-		-
2,2,4-Trimethylpentane	ND		0.934	ND		0.934	ND		0.934	ND		0.934	ND		1.05	ND		0.934
Heptane	82.4		0.82	1.23		0.82	7.83		0.82	ND		0.82	74.2		0.922	ND		0.82
cis-1,3-Dichloropropene	ND		0.908	ND		0.908	ND		0.908	ND		0.908	ND		1.02	ND		0.908
4-Methyl-2-pentanone	ND		2.05	ND		2.05	ND		2.05	ND		2.05	ND		2.3	ND		2.05
trans-1,3-Dichloropropene	ND		0.908	ND		0.908	ND		0.908	ND		0.908	ND		1.02	ND		0.908
1,1,2-Trichloroethane	ND		1.09	ND		1.09	ND		1.09	ND		1.09	ND		1.23	ND		1.09
Toluene	43.3		0.754	1.11		0.754	69.3		0.754	1.93		0.754	67.1		0.848	1.01		0.754
2-Hexanone	ND		0.82	ND		0.82	6.27		0.82	ND		0.82	ND		0.922	ND		0.82
Dibromochloromethane	ND		1.7	ND		1.7	ND		1.7	ND		1.7	ND		1.92	ND		1.7
1,2-Dibromoethane	ND		1.54	ND		1.54	ND		1.54	ND		1.54	ND		1.73	ND		1.54
Tetrachloroethene	ND		1.36	-		-	ND		1.36	-		-	ND		1.53	-		-
Chlorobenzene	ND		0.921	ND		0.921	ND		0.921	ND		0.921	ND		1.04	ND		0.921
Ethylbenzene	12		0.869	ND		0.869	18.2		0.869	ND		0.869	17.2		0.977	ND		0.869
p/m-Xylene	47.8		1.74	ND		1.74	70.8		1.74	ND		1.74	66		1.95	ND		1.74
Bromoform	ND		2.07	ND		2.07	ND		2.07	ND		2.07	ND		2.33	ND		2.07
Styrene	ND		0.852	ND		0.852	1.1		0.852	ND		0.852	1.2		0.958	ND		0.852
1,1,2,2-Tetrachloroethane	ND		1.37	ND		1.37	ND		1.37	ND		1.37	ND		1.55	ND		1.37
o-Xylene	15.5		0.869	ND		0.869	24.2		0.869	ND		0.869	22.2		0.977	ND		0.869
4-Ethyltoluene	2.88		0.983	ND		0.983	4.09		0.983	ND		0.983	5.21		1.11	ND		0.983
1,3,5-Trimethylbenzene	2.92		0.983	ND		0.983	4.5		0.983	ND		0.983	4.02		1.11	ND		0.983
1,2,4-Trimethylbenzene	12.3		0.983	ND		0.983	19.5		0.983	ND		0.983	17		1.11	ND		0.983
Benzyl chloride	ND		1.04	ND		1.04	ND		1.04	ND		1.04	ND		1.17	ND		1.04
1,3-Dichlorobenzene	ND		1.2	ND		1.2	ND		1.2	ND		1.2	ND		1.35	ND		1.2
1,4-Dichlorobenzene	ND		1.2	ND		1.2	ND		1.2	ND		1.2	ND		1.35	ND		1.2
1,2-Dichlorobenzene	ND		1.2	ND		1.2	ND		1.2	ND		1.2	ND		1.35	ND		1.2
1,2,4-Trichlorobenzene	ND		1.48	ND		1.48	ND		1.48	ND		1.48	ND		1.67	ND		1.48
Hexachlorobutadiene	ND		2.13	ND		2.13	ND		2.13	ND		2.13	ND		2.4	ND		2.13
Vinyl chloride	-		-	0.092		0.051	-		-	ND		0.051	-		-	ND		0.051
1,1-Dichloroethene	-		-	ND		0.079	-		-	ND		0.079	-		-	ND		0.079
cis-1,2-Dichloroethene	-		-	ND		0.079	-		-	ND		0.079	-		-	ND		0.079
1,1,1-Trichloroethane	-		-	ND		0.109	-		-	ND		0.109	-		-	ND		0.109
Carbon tetrachloride	-		-	0.365		0.126	-		-	0.377		0.126	-		-	0.459		0.126
Trichloroethene	-		-	ND		0.107	-		-	ND		0.107	-		-	ND		0.107
Tetrachloroethene	-		-	0.231		0.136	-		-	0.366		0.136	-		-	0.407		0.136

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

TABLE 2A

MARKETING BUIDING
MATRIX A
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			OA-1		
	COLLECTION DATE:		11/6/2021			11/6/2021			11/6/2021			11/6/2021			11/6/2021			11/6/2021			11/6/2021		
	SAMPLE MATRIX:		SS			AIR			SS			AIR			SS			AIR			AIR		
	NY-SSC-A	NY-IAC-A																					
	(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																							
1,1-Dichloroethene	6	0.2	ND		0.79	ND		0.079	ND		0.79	ND		0.079	ND		0.892	ND		0.079	ND		0.079
cis-1,2-Dichloroethene	6	0.2	ND		0.79	0.155		0.079	ND		0.79	ND		0.079	ND		0.892	ND		0.079	ND		0.079
Carbon tetrachloride	6	0.2	ND		1.26	0.365		0.126	ND		1.26	0.377		0.126	ND		1.42	0.459		0.126	0.365		0.126
Trichloroethene	6	0.2	ND		1.07	ND		0.107	ND		1.07	ND		0.107	ND		1.21	ND		0.107	ND		0.136

* 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 3A

MARKET BUILDING
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			OA-1		
	COLLECTION DATE:		11/6/2021			11/6/2021			11/6/2021			11/6/2021			11/6/2021			11/6/2021			11/6/2021		
	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		1.74	ND		1.74	ND		1.74	ND		1.74	ND		1.95	ND		1.74	ND		1.74
1,1,1-Trichloroethane	100	3	ND		1.09	ND		0.109	ND		1.09	ND		0.109	ND		1.23	ND		0.109	ND		0.109
Tetrachloroethene	100	3	ND		1.36	0.231		0.136	ND		1.36	ND		0.136	ND		1.53	0.407		0.136	ND		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 4A

MARKET BUILDING
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:		11/6/2021			11/6/2021			11/6/2021			11/6/2021			11/6/2021			11/6/2021			11/6/2021		
	SAMPLE MATRIX:		SS			AIR			SS			AIR			SS			AIR			AIR		
	NY-SSC-C	NY-IAC-C																					
	(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																							
Vinyl chloride	6	0.2	ND		0.51	0.092		0.051	ND		0.51	ND		0.051	ND		0.575	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 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 2B

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

	SAMPLE ID:		RB-SS-1			RB-IA-1			RB-SS-2			RB-IA-2			RB-SS-3			RB-IA-3		
	COLLECTION DATE:		11/6/2021			11/6/2021			11/6/2021			11/6/2021			11/6/2021			11/6/2021		
	SAMPLE MATRIX:		SS			AIR			SS			AIR			SS			AIR		
	NY-SSC-A	NY-IAC-A																		
	(ug/m3)	(ug/m3)	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL
VOLATILE ORGANICS																				
1,1-Dichloroethene	6	0.2	ND		0.79	ND		0.079	ND		223	ND		0.079	ND		0.793	ND		0.079
cis-1,2-Dichloroethene	6	0.2	ND		0.79	ND		0.079	ND		223	ND		0.079	ND		0.793	ND		0.079
Carbon tetrachloride	6	0.2	ND		1.26	0.377		0.126	ND		354	0.403		0.126	ND		1.26	0.34		0.126
Trichloroethene	6	0.2	ND		1.07	ND		0.107	ND		302	ND		0.107	ND		1.07	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 3B

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

	SAMPLE ID:		RB-SS-1			RB-IA-1			RB-SS-2			RB-IA-2			RB-SS-3			RB-IA-3		
	COLLECTION DATE:		11/6/2021			11/6/2021			11/6/2021			11/6/2021			11/6/2021			11/6/2021		
	SAMPLE MATRIX:		SS			AIR			SS			AIR			SS			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
VOLATILE ORGANICS																				
Methylene chloride	100	3	ND		1.74	ND		1.74	ND		486	3.1		1.74	ND		1.74	ND		1.74
1,1,1-Trichloroethane	100	3	ND		1.09	ND		0.109	ND		307	ND		1.09	ND		1.09	ND		0.109
Tetrachloroethene	100	3	ND		1.36	0.17		0.136	ND		381	0.278		0.136	ND		1.36	0.339		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 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-

TABLE 4B

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

	SAMPLE ID:		RB-SS-1			RB-IA-1			RB-SS-2			RB-IA-2			RB-SS-3			RB-IA-3		
	COLLECTION DATE:		11/6/2021			11/6/2021			11/6/2021			11/6/2021			11/6/2021			11/6/2021		
	SAMPLE MATRIX:		SS			AIR			SS			AIR			SS			AIR		
	NY-SSC-C	NY-IAC-C																		
	(ug/m3)	(ug/m3)	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL
VOLATILE ORGANICS																				
Vinyl chloride	6	0.2	ND		0.51	ND		0.051	ND		144	ND		0.051	ND		0.511	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 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-

LABORATORY ANALYTICAL REPORT

ANALYTICAL REPORT

Lab Number:	L2161368
Client:	C&S Companies 141 Elm Street, Suite 100 Buffalo, NY 14203
ATTN:	Cody Martin
Phone:	(716) 847-1630
Project Name:	201 ELLICOTT BCP
Project Number:	E67.020.006
Report Date:	11/11/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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 BCP
Project Number: E67.020.006

Lab Number: L2161368
Report Date: 11/11/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2161368-01	MB-SS-01	SOIL_VAPOR	Not Specified	11/06/21 12:57	11/08/21
L2161368-02	MB-IA-01	AIR	Not Specified	11/06/21 12:55	11/08/21
L2161368-03	MB-SS-02	SOIL_VAPOR	Not Specified	11/06/21 12:44	11/08/21
L2161368-04	MB-IA-02	AIR	Not Specified	11/06/21 12:45	11/08/21
L2161368-05	MB-SS-03	SOIL_VAPOR	Not Specified	11/06/21 12:27	11/08/21
L2161368-06	MB-IA-03	AIR	Not Specified	11/06/21 12:30	11/08/21
L2161368-07	RB-SS-01	SOIL_VAPOR	Not Specified	11/06/21 12:00	11/08/21
L2161368-08	RB-IA-01	AIR	Not Specified	11/06/21 11:59	11/08/21
L2161368-09	RB-SS-02	SOIL_VAPOR	Not Specified	11/06/21 12:08	11/08/21
L2161368-10	RB-IA-02	AIR	Not Specified	11/06/21 12:07	11/08/21
L2161368-11	RB-SS-03	SOIL_VAPOR	Not Specified	11/06/21 12:15	11/08/21
L2161368-12	RB-IA-03	AIR	Not Specified	11/06/21 12:12	11/08/21
L2161368-13	OA-01	AIR	Not Specified	11/06/21 13:17	11/08/21

Project Name:	201 ELLICOTT BCP	**Lab Number:**	L2161368
Project Number:	E67.020.006	**Report Date:**	11/11/21

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 BCP	**Lab Number:**	L2161368
Project Number:	E67.020.006	**Report Date:**	11/11/21

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on November 3, 2021. The canister certification results are provided as an addendum.

L2161368-05D: The canister vacuum measured on receipt at the laboratory was > 15 in. Hg. Prior to sample analysis, the canisters were pressurized with UHP Nitrogen in order to facilitate the transfer of sample to the Gas Chromatograph. The addition of Nitrogen resulted in a dilution of the samples. The reporting limits have been elevated accordingly.

L2161368-09D,11D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2161368-11: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

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

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 11/11/21

AIR

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-01
Client ID: MB-SS-01
Sample Location:

Date Collected: 11/06/21 12:57
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 11/11/21 03:11
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.373	0.200	--	1.84	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	49.8	5.00	--	93.8	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	10.9	1.00	--	25.9	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	6.80	0.500	--	16.7	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	6.36	0.500	--	18.8	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-01
Client ID: MB-SS-01
Sample Location:

Date Collected: 11/06/21 12:57
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	1.14	0.200	--	5.57	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	20.4	0.200	--	71.9	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.821	0.200	--	2.62	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	25.9	0.200	--	89.2	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	20.1	0.200	--	82.4	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	11.5	0.200	--	43.3	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	2.77	0.200	--	12.0	0.869	--		1

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-01
Client ID: MB-SS-01
Sample Location:

Date Collected: 11/06/21 12:57
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	11.0	0.400	--	47.8	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
o-Xylene	3.57	0.200	--	15.5	0.869	--		1
4-Ethyltoluene	0.586	0.200	--	2.88	0.983	--		1
1,3,5-Trimethylbenzene	0.594	0.200	--	2.92	0.983	--		1
1,2,4-Trimethylbenzene	2.51	0.200	--	12.3	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	101		60-140
Bromochloromethane	101		60-140
chlorobenzene-d5	107		60-140

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-02
Client ID: MB-IA-01
Sample Location:

Date Collected: 11/06/21 12:55
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 11/10/21 20:25
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.372	0.200	--	1.84	0.989	--		1
Chloromethane	0.470	0.200	--	0.971	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	115	5.00	--	217	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	5.86	1.00	--	13.9	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	19.9	0.500	--	48.9	1.23	--		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
Ethyl Acetate	2.01	0.500	--	7.24	1.80	--		1
Chloroform	0.836	0.200	--	4.08	0.977	--		1
Tetrahydrofuran	0.825	0.500	--	2.43	1.47	--		1

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-02
Client ID: MB-IA-01
Sample Location:

Date Collected: 11/06/21 12:55
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.230	0.200	--	0.811	0.705	--		1
Benzene	ND	0.200	--	ND	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	0.301	0.200	--	1.23	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	0.294	0.200	--	1.11	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	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
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

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-02
Client ID: MB-IA-01
Sample Location:

Date Collected: 11/06/21 12:55
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:

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

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	80		60-140
Bromochloromethane	84		60-140
chlorobenzene-d5	89		60-140

Project Name: 201 ELLICOTT BCP
Project Number: E67.020.006
Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-02
Client ID: MB-IA-01
Sample Location:

Date Collected: 11/06/21 12:55
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 11/10/21 20:25
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	0.036	0.020	--	0.092	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	0.034	0.020	--	0.231	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	75		60-140
bromochloromethane	78		60-140
chlorobenzene-d5	85		60-140

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-03
Client ID: MB-SS-02
Sample Location:

Date Collected: 11/06/21 12:44
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 11/11/21 03:52
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.325	0.200	--	1.61	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	7.92	1.00	--	18.8	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	11.8	0.500	--	34.8	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-03
Client ID: MB-SS-02
Sample Location:

Date Collected: 11/06/21 12:44
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.352	0.200	--	1.72	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	2.58	0.200	--	9.09	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	1.02	0.200	--	3.26	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	3.69	0.200	--	12.7	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	1.91	0.200	--	7.83	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	18.4	0.200	--	69.3	0.754	--		1
2-Hexanone	1.53	0.200	--	6.27	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	4.18	0.200	--	18.2	0.869	--		1

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-03
Client ID: MB-SS-02
Sample Location:

Date Collected: 11/06/21 12:44
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	16.3	0.400	--	70.8	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.258	0.200	--	1.10	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	5.57	0.200	--	24.2	0.869	--		1
4-Ethyltoluene	0.832	0.200	--	4.09	0.983	--		1
1,3,5-Trimethylbenzene	0.915	0.200	--	4.50	0.983	--		1
1,2,4-Trimethylbenzene	3.96	0.200	--	19.5	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	107		60-140
Bromochloromethane	110		60-140
chlorobenzene-d5	107		60-140

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-04
Client ID: MB-IA-02
Sample Location:

Date Collected: 11/06/21 12:45
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 11/10/21 21:50
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.398	0.200	--	1.97	0.989	--		1
Chloromethane	0.481	0.200	--	0.993	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	118	5.00	--	222	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	12.8	1.00	--	30.4	2.38	--		1
Trichlorofluoromethane	0.200	0.200	--	1.12	1.12	--		1
Isopropanol	21.8	0.500	--	53.6	1.23	--		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	4.84	0.500	--	14.3	1.47	--		1
Ethyl Acetate	0.637	0.500	--	2.30	1.80	--		1
Chloroform	1.93	0.200	--	9.43	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-04
Client ID: MB-IA-02
Sample Location:

Date Collected: 11/06/21 12:45
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	0.219	0.200	--	0.700	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	0.442	0.200	--	1.59	0.721	--		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	0.512	0.200	--	1.93	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	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
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

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-04
Client ID: MB-IA-02
Sample Location:

Date Collected: 11/06/21 12:45
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	88		60-140
chlorobenzene-d5	91		60-140

Project Name: 201 ELLICOTT BCP
Project Number: E67.020.006
Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-04
Client ID: MB-IA-02
Sample Location:

Date Collected: 11/06/21 12:45
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 11/10/21 21:50
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	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	0.060	0.020	--	0.377	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.054	0.020	--	0.366	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	84		60-140
bromochloromethane	84		60-140
chlorobenzene-d5	89		60-140

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-05 D
Client ID: MB-SS-03
Sample Location:

Date Collected: 11/06/21 12:27
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 11/11/21 04:33
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.290	0.225	--	1.43	1.11	--		1.124
Chloromethane	ND	0.225	--	ND	0.465	--		1.124
Freon-114	ND	0.225	--	ND	1.57	--		1.124
Vinyl chloride	ND	0.225	--	ND	0.575	--		1.124
1,3-Butadiene	ND	0.225	--	ND	0.498	--		1.124
Bromomethane	ND	0.225	--	ND	0.874	--		1.124
Chloroethane	ND	0.225	--	ND	0.594	--		1.124
Ethanol	73.1	5.62	--	138	10.6	--		1.124
Vinyl bromide	ND	0.225	--	ND	0.984	--		1.124
Acetone	20.4	1.12	--	48.5	2.66	--		1.124
Trichlorofluoromethane	ND	0.225	--	ND	1.26	--		1.124
Isopropanol	1.80	0.562	--	4.42	1.38	--		1.124
1,1-Dichloroethene	ND	0.225	--	ND	0.892	--		1.124
Tertiary butyl Alcohol	ND	0.562	--	ND	1.70	--		1.124
Methylene chloride	ND	0.562	--	ND	1.95	--		1.124
3-Chloropropene	ND	0.225	--	ND	0.704	--		1.124
Carbon disulfide	ND	0.225	--	ND	0.701	--		1.124
Freon-113	ND	0.225	--	ND	1.72	--		1.124
trans-1,2-Dichloroethene	ND	0.225	--	ND	0.892	--		1.124
1,1-Dichloroethane	ND	0.225	--	ND	0.911	--		1.124
Methyl tert butyl ether	ND	0.225	--	ND	0.811	--		1.124
2-Butanone	10.1	0.562	--	29.8	1.66	--		1.124
cis-1,2-Dichloroethene	ND	0.225	--	ND	0.892	--		1.124

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-05 D
Client ID: MB-SS-03
Sample Location:

Date Collected: 11/06/21 12:27
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	0.600	0.562	--	2.16	2.03	--		1.124
Chloroform	0.300	0.225	--	1.47	1.10	--		1.124
Tetrahydrofuran	ND	0.562	--	ND	1.66	--		1.124
1,2-Dichloroethane	ND	0.225	--	ND	0.911	--		1.124
n-Hexane	21.6	0.225	--	76.1	0.793	--		1.124
1,1,1-Trichloroethane	ND	0.225	--	ND	1.23	--		1.124
Benzene	1.05	0.225	--	3.35	0.719	--		1.124
Carbon tetrachloride	ND	0.225	--	ND	1.42	--		1.124
Cyclohexane	19.2	0.225	--	66.1	0.774	--		1.124
1,2-Dichloropropane	ND	0.225	--	ND	1.04	--		1.124
Bromodichloromethane	ND	0.225	--	ND	1.51	--		1.124
1,4-Dioxane	ND	0.225	--	ND	0.811	--		1.124
Trichloroethene	ND	0.225	--	ND	1.21	--		1.124
2,2,4-Trimethylpentane	ND	0.225	--	ND	1.05	--		1.124
Heptane	18.1	0.225	--	74.2	0.922	--		1.124
cis-1,3-Dichloropropene	ND	0.225	--	ND	1.02	--		1.124
4-Methyl-2-pentanone	ND	0.562	--	ND	2.30	--		1.124
trans-1,3-Dichloropropene	ND	0.225	--	ND	1.02	--		1.124
1,1,2-Trichloroethane	ND	0.225	--	ND	1.23	--		1.124
Toluene	17.8	0.225	--	67.1	0.848	--		1.124
2-Hexanone	ND	0.225	--	ND	0.922	--		1.124
Dibromochloromethane	ND	0.225	--	ND	1.92	--		1.124
1,2-Dibromoethane	ND	0.225	--	ND	1.73	--		1.124
Tetrachloroethene	ND	0.225	--	ND	1.53	--		1.124
Chlorobenzene	ND	0.225	--	ND	1.04	--		1.124
Ethylbenzene	3.97	0.225	--	17.2	0.977	--		1.124

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-05 D
Client ID: MB-SS-03
Sample Location:

Date Collected: 11/06/21 12:27
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	15.2	0.450	--	66.0	1.95	--		1.124
Bromoform	ND	0.225	--	ND	2.33	--		1.124
Styrene	0.283	0.225	--	1.20	0.958	--		1.124
1,1,2,2-Tetrachloroethane	ND	0.225	--	ND	1.55	--		1.124
o-Xylene	5.11	0.225	--	22.2	0.977	--		1.124
4-Ethyltoluene	1.06	0.225	--	5.21	1.11	--		1.124
1,3,5-Trimethylbenzene	0.817	0.225	--	4.02	1.11	--		1.124
1,2,4-Trimethylbenzene	3.45	0.225	--	17.0	1.11	--		1.124
Benzyl chloride	ND	0.225	--	ND	1.17	--		1.124
1,3-Dichlorobenzene	ND	0.225	--	ND	1.35	--		1.124
1,4-Dichlorobenzene	ND	0.225	--	ND	1.35	--		1.124
1,2-Dichlorobenzene	ND	0.225	--	ND	1.35	--		1.124
1,2,4-Trichlorobenzene	ND	0.225	--	ND	1.67	--		1.124
Hexachlorobutadiene	ND	0.225	--	ND	2.40	--		1.124

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	111		60-140
Bromochloromethane	110		60-140
chlorobenzene-d5	102		60-140

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-06
Client ID: MB-IA-03
Sample Location:

Date Collected: 11/06/21 12:30
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 11/10/21 22:31
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.416	0.200	--	2.06	0.989	--		1
Chloromethane	0.508	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	190	5.00	--	358	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	5.32	1.00	--	12.6	2.38	--		1
Trichlorofluoromethane	0.211	0.200	--	1.19	1.12	--		1
Isopropanol	3.23	0.500	--	7.94	1.23	--		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
Ethyl Acetate	0.561	0.500	--	2.02	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-06
Client ID: MB-IA-03
Sample Location:

Date Collected: 11/06/21 12:30
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	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	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	0.269	0.200	--	1.01	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	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
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

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-06
Client ID: MB-IA-03
Sample Location:

Date Collected: 11/06/21 12:30
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:

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

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	80		60-140
Bromochloromethane	80		60-140
chlorobenzene-d5	89		60-140

Project Name: 201 ELLICOTT BCP
Project Number: E67.020.006
Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-06
Client ID: MB-IA-03
Sample Location:

Date Collected: 11/06/21 12:30
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 11/10/21 22:31
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	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	0.073	0.020	--	0.459	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.060	0.020	--	0.407	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	77		60-140
bromochloromethane	77		60-140
chlorobenzene-d5	88		60-140

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-07
Client ID: RB-SS-01
Sample Location:

Date Collected: 11/06/21 12:00
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 11/11/21 05:15
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.296	0.200	--	1.46	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	7.09	1.00	--	16.8	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	4.19	0.500	--	12.4	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-07
Client ID: RB-SS-01
Sample Location:

Date Collected: 11/06/21 12:00
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.741	0.500	--	2.19	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	1.35	0.200	--	4.76	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.947	0.200	--	3.03	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	2.02	0.200	--	6.95	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	0.284	0.200	--	1.33	0.934	--		1
Heptane	1.74	0.200	--	7.13	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	19.0	0.200	--	71.6	0.754	--		1
2-Hexanone	0.724	0.200	--	2.97	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	4.25	0.200	--	18.5	0.869	--		1

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-07
Client ID: RB-SS-01
Sample Location:

Date Collected: 11/06/21 12:00
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	16.1	0.400	--	69.9	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.286	0.200	--	1.22	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	5.62	0.200	--	24.4	0.869	--		1
4-Ethyltoluene	1.18	0.200	--	5.80	0.983	--		1
1,3,5-Trimethylbenzene	0.954	0.200	--	4.69	0.983	--		1
1,2,4-Trimethylbenzene	4.12	0.200	--	20.3	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	112		60-140
Bromochloromethane	112		60-140
chlorobenzene-d5	100		60-140

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-08
Client ID: RB-IA-01
Sample Location:

Date Collected: 11/06/21 11:59
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 11/10/21 23:10
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.380	0.200	--	1.88	0.989	--		1
Chloromethane	0.466	0.200	--	0.962	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	31.4	5.00	--	59.2	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	132	1.00	--	314	2.38	--		1
Trichlorofluoromethane	0.204	0.200	--	1.15	1.12	--		1
Isopropanol	4.38	0.500	--	10.8	1.23	--		1
Tertiary butyl Alcohol	1.75	0.500	--	5.31	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	1.59	0.500	--	4.69	1.47	--		1
Ethyl Acetate	2.79	0.500	--	10.1	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	4.20	0.500	--	12.4	1.47	--		1

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-08
Client ID: RB-IA-01
Sample Location:

Date Collected: 11/06/21 11:59
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.340	0.200	--	1.20	0.705	--		1
Benzene	ND	0.200	--	ND	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	11.4	0.200	--	46.7	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	0.564	0.500	--	2.31	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	26.7	0.200	--	101	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	0.230	0.200	--	0.999	0.869	--		1
p/m-Xylene	0.903	0.400	--	3.92	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.314	0.200	--	1.34	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.282	0.200	--	1.22	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 BCP
Project Number: E67.020.006

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-08
Client ID: RB-IA-01
Sample Location:

Date Collected: 11/06/21 11:59
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:

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

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	84		60-140
Bromochloromethane	87		60-140
chlorobenzene-d5	90		60-140

Project Name: 201 ELLICOTT BCP
Project Number: E67.020.006
Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-08
Client ID: RB-IA-01
Sample Location:

Date Collected: 11/06/21 11:59
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 11/10/21 23:10
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	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	0.060	0.020	--	0.377	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.025	0.020	--	0.170	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	83		60-140
bromochloromethane	83		60-140
chlorobenzene-d5	89		60-140

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-09 D
Client ID: RB-SS-02
Sample Location:

Date Collected: 11/06/21 12:08
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 11/11/21 05:51
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	56.2	--	ND	278	--		280.9
Chloromethane	ND	56.2	--	ND	116	--		280.9
Freon-114	ND	56.2	--	ND	393	--		280.9
Vinyl chloride	ND	56.2	--	ND	144	--		280.9
1,3-Butadiene	ND	56.2	--	ND	124	--		280.9
Bromomethane	ND	56.2	--	ND	218	--		280.9
Chloroethane	ND	56.2	--	ND	148	--		280.9
Ethanol	ND	1400	--	ND	2640	--		280.9
Vinyl bromide	ND	56.2	--	ND	246	--		280.9
Acetone	5520	281	--	13100	668	--		280.9
Trichlorofluoromethane	ND	56.2	--	ND	316	--		280.9
Isopropanol	ND	140	--	ND	344	--		280.9
1,1-Dichloroethene	ND	56.2	--	ND	223	--		280.9
Tertiary butyl Alcohol	ND	140.	--	ND	424	--		280.9
Methylene chloride	ND	140.	--	ND	486	--		280.9
3-Chloropropene	ND	56.2	--	ND	176	--		280.9
Carbon disulfide	ND	56.2	--	ND	175	--		280.9
Freon-113	ND	56.2	--	ND	431	--		280.9
trans-1,2-Dichloroethene	ND	56.2	--	ND	223	--		280.9
1,1-Dichloroethane	ND	56.2	--	ND	227	--		280.9
Methyl tert butyl ether	ND	56.2	--	ND	203	--		280.9
2-Butanone	2020	140	--	5960	413	--		280.9
cis-1,2-Dichloroethene	ND	56.2	--	ND	223	--		280.9

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-09 D
Client ID: RB-SS-02
Sample Location:

Date Collected: 11/06/21 12:08
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	140.	--	ND	505	--		280.9
Chloroform	ND	56.2	--	ND	274	--		280.9
Tetrahydrofuran	18800	140	--	55400	413	--		280.9
1,2-Dichloroethane	ND	56.2	--	ND	227	--		280.9
n-Hexane	ND	56.2	--	ND	198	--		280.9
1,1,1-Trichloroethane	ND	56.2	--	ND	307	--		280.9
Benzene	ND	56.2	--	ND	180	--		280.9
Carbon tetrachloride	ND	56.2	--	ND	354	--		280.9
Cyclohexane	ND	56.2	--	ND	193	--		280.9
1,2-Dichloropropane	ND	56.2	--	ND	260	--		280.9
Bromodichloromethane	ND	56.2	--	ND	377	--		280.9
1,4-Dioxane	ND	56.2	--	ND	203	--		280.9
Trichloroethene	ND	56.2	--	ND	302	--		280.9
2,2,4-Trimethylpentane	ND	56.2	--	ND	262	--		280.9
Heptane	ND	56.2	--	ND	230	--		280.9
cis-1,3-Dichloropropene	ND	56.2	--	ND	255	--		280.9
4-Methyl-2-pentanone	ND	140.	--	ND	574	--		280.9
trans-1,3-Dichloropropene	ND	56.2	--	ND	255	--		280.9
1,1,2-Trichloroethane	ND	56.2	--	ND	307	--		280.9
Toluene	ND	56.2	--	ND	212	--		280.9
2-Hexanone	ND	56.2	--	ND	230	--		280.9
Dibromochloromethane	ND	56.2	--	ND	479	--		280.9
1,2-Dibromoethane	ND	56.2	--	ND	432	--		280.9
Tetrachloroethene	ND	56.2	--	ND	381	--		280.9
Chlorobenzene	ND	56.2	--	ND	259	--		280.9
Ethylbenzene	ND	56.2	--	ND	244	--		280.9

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-09 D
Client ID: RB-SS-02
Sample Location:

Date Collected: 11/06/21 12:08
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	112	--	ND	486	--		280.9
Bromoform	ND	56.2	--	ND	581	--		280.9
Styrene	ND	56.2	--	ND	239	--		280.9
1,1,2,2-Tetrachloroethane	ND	56.2	--	ND	386	--		280.9
o-Xylene	ND	56.2	--	ND	244	--		280.9
4-Ethyltoluene	ND	56.2	--	ND	276	--		280.9
1,3,5-Trimethylbenzene	ND	56.2	--	ND	276	--		280.9
1,2,4-Trimethylbenzene	ND	56.2	--	ND	276	--		280.9
Benzyl chloride	ND	56.2	--	ND	291	--		280.9
1,3-Dichlorobenzene	ND	56.2	--	ND	338	--		280.9
1,4-Dichlorobenzene	ND	56.2	--	ND	338	--		280.9
1,2-Dichlorobenzene	ND	56.2	--	ND	338	--		280.9
1,2,4-Trichlorobenzene	ND	56.2	--	ND	417	--		280.9
Hexachlorobutadiene	ND	56.2	--	ND	599	--		280.9

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	110		60-140
Bromochloromethane	111		60-140
chlorobenzene-d5	95		60-140

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-10
Client ID: RB-IA-02
Sample Location:

Date Collected: 11/06/21 12:07
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 11/10/21 23:51
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.385	0.200	--	1.90	0.989	--		1
Chloromethane	0.451	0.200	--	0.931	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	27.2	5.00	--	51.3	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	105	1.00	--	249	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	4.04	0.500	--	9.93	1.23	--		1
Tertiary butyl Alcohol	1.23	0.500	--	3.73	1.52	--		1
Methylene chloride	0.893	0.500	--	3.10	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	1.33	0.500	--	3.92	1.47	--		1
Ethyl Acetate	1.17	0.500	--	4.22	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	3.34	0.500	--	9.85	1.47	--		1

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-10
Client ID: RB-IA-02
Sample Location:

Date Collected: 11/06/21 12:07
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.443	0.200	--	1.56	0.705	--		1
Benzene	ND	0.200	--	ND	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	9.36	0.200	--	38.4	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	22.1	0.200	--	83.3	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	0.218	0.200	--	0.947	0.869	--		1
p/m-Xylene	0.872	0.400	--	3.79	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.268	0.200	--	1.14	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.268	0.200	--	1.16	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 BCP
Project Number: E67.020.006

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-10
Client ID: RB-IA-02
Sample Location:

Date Collected: 11/06/21 12:07
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	93		60-140

Project Name: 201 ELLICOTT BCP
Project Number: E67.020.006
Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-10
Client ID: RB-IA-02
Sample Location:

Date Collected: 11/06/21 12:07
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 11/10/21 23:51
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	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	0.064	0.020	--	0.403	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.041	0.020	--	0.278	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	85		60-140
bromochloromethane	86		60-140
chlorobenzene-d5	92		60-140

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-11
Client ID: RB-SS-03
Sample Location:

Date Collected: 11/06/21 12:15
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 11/11/21 06:32
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.303	0.200	--	1.50	0.989	--		1
Chloromethane	0.660	0.200	--	1.36	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	276	1.00	--	656	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	163	0.500	--	481	1.47	--	E	1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-11
Client ID: RB-SS-03
Sample Location:

Date Collected: 11/06/21 12:15
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	0.556	0.500	--	2.00	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	444	0.500	--	1310	1.47	--	E	1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	1.18	0.200	--	4.16	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.858	0.200	--	2.74	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	2.16	0.200	--	7.43	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	1.24	0.200	--	5.08	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	16.4	0.200	--	61.8	0.754	--		1
2-Hexanone	0.312	0.200	--	1.28	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	3.77	0.200	--	16.4	0.869	--		1

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-11
Client ID: RB-SS-03
Sample Location:

Date Collected: 11/06/21 12:15
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	14.8	0.400	--	64.3	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.281	0.200	--	1.20	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	5.10	0.200	--	22.2	0.869	--		1
4-Ethyltoluene	1.10	0.200	--	5.41	0.983	--		1
1,3,5-Trimethylbenzene	0.864	0.200	--	4.25	0.983	--		1
1,2,4-Trimethylbenzene	3.84	0.200	--	18.9	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	108		60-140
Bromochloromethane	108		60-140
chlorobenzene-d5	98		60-140

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-11 D
Client ID: RB-SS-03
Sample Location:

Date Collected: 11/06/21 12:15
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 11/11/21 08:35
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Butanone	194	6.25	--	572	18.4	--		12.5
Tetrahydrofuran	700	6.25	--	2060	18.4	--		12.5

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	107		60-140
Bromochloromethane	108		60-140
chlorobenzene-d5	91		60-140

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-12
Client ID: RB-IA-03
Sample Location:

Date Collected: 11/06/21 12:12
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 11/11/21 00:31
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.385	0.200	--	1.90	0.989	--		1
Chloromethane	0.457	0.200	--	0.944	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	30.7	5.00	--	57.8	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	120	1.00	--	285	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	4.83	0.500	--	11.9	1.23	--		1
Tertiary butyl Alcohol	1.34	0.500	--	4.06	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	1.35	0.500	--	3.98	1.47	--		1
Ethyl Acetate	0.993	0.500	--	3.58	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	2.82	0.500	--	8.32	1.47	--		1

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-12
Client ID: RB-IA-03
Sample Location:

Date Collected: 11/06/21 12:12
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.335	0.200	--	1.18	0.705	--		1
Benzene	ND	0.200	--	ND	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	11.0	0.200	--	45.1	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	0.551	0.500	--	2.26	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	25.6	0.200	--	96.5	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	0.267	0.200	--	1.16	0.869	--		1
p/m-Xylene	1.05	0.400	--	4.56	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.287	0.200	--	1.22	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.312	0.200	--	1.36	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 BCP
Project Number: E67.020.006

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-12
Client ID: RB-IA-03
Sample Location:

Date Collected: 11/06/21 12:12
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	85		60-140
Bromochloromethane	87		60-140
chlorobenzene-d5	92		60-140

Project Name: 201 ELLICOTT BCP
Project Number: E67.020.006
Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-12
Client ID: RB-IA-03
Sample Location:

Date Collected: 11/06/21 12:12
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 11/11/21 00:31
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	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	0.054	0.020	--	0.340	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.050	0.020	--	0.339	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	82		60-140
bromochloromethane	83		60-140
chlorobenzene-d5	91		60-140

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-13
Client ID: OA-01
Sample Location:

Date Collected: 11/06/21 13:17
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 11/10/21 19:46
Analyst: TS

	ppbV			ug/m3				
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.364	0.200	--	1.80	0.989	--		1
Chloromethane	0.414	0.200	--	0.855	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	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	1.87	1.00	--	4.44	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	0.538	0.500	--	1.32	1.23	--		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
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 BCP
Project Number: E67.020.006

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-13
Client ID: OA-01
Sample Location:

Date Collected: 11/06/21 13:17
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	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	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	0.370	0.200	--	1.39	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	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
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

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

Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-13
Client ID: OA-01
Sample Location:

Date Collected: 11/06/21 13:17
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	83		60-140
Bromochloromethane	87		60-140
chlorobenzene-d5	88		60-140

Project Name: 201 ELLICOTT BCP
Project Number: E67.020.006
Lab Number: L2161368
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161368-13
Client ID: OA-01
Sample Location:

Date Collected: 11/06/21 13:17
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 11/10/21 19:46
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	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	0.046	0.020	--	0.312	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	78		60-140
bromochloromethane	81		60-140
chlorobenzene-d5	85		60-140

Project Name: 201 ELLICOTT BCP
Project Number: E67.020.006
Lab Number: L2161368
Report Date: 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 11/10/21 17:16

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 02,04,06,08,10,12-13 Batch: WG1569794-4								
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 BCP
Project Number: E67.020.006
Lab Number: L2161368
Report Date: 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 11/10/21 16:37

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-13 Batch: WG1569795-4								
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 BCP
Project Number: E67.020.006
Lab Number: L2161368
Report Date: 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 11/10/21 16:37

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-13 Batch: WG1569795-4								
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 BCP
Project Number: E67.020.006
Lab Number: L2161368
Report Date: 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 11/10/21 16:37

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-13 Batch: WG1569795-4								
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 BCP
Project Number: E67.020.006

Lab Number: L2161368
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 02,04,06,08,10,12-13 Batch: WG1569794-3								
Vinyl chloride	83		-		70-130	-		25
1,1-Dichloroethene	80		-		70-130	-		25
cis-1,2-Dichloroethene	88		-		70-130	-		25
1,1,1-Trichloroethane	84		-		70-130	-		25
Carbon tetrachloride	73		-		70-130	-		25
Trichloroethene	96		-		70-130	-		25
Tetrachloroethene	109		-		70-130	-		25

Lab Control Sample Analysis
Batch Quality Control

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

Lab Number: L2161368
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-13 Batch: WG1569795-3								
Dichlorodifluoromethane	72		-		70-130	-		
Chloromethane	86		-		70-130	-		
Freon-114	78		-		70-130	-		
Vinyl chloride	85		-		70-130	-		
1,3-Butadiene	84		-		70-130	-		
Bromomethane	88		-		70-130	-		
Chloroethane	87		-		70-130	-		
Ethanol	91		-		40-160	-		
Vinyl bromide	94		-		70-130	-		
Acetone	82		-		40-160	-		
Trichlorofluoromethane	81		-		70-130	-		
Isopropanol	87		-		40-160	-		
1,1-Dichloroethene	85		-		70-130	-		
Tertiary butyl Alcohol	78		-		70-130	-		
Methylene chloride	95		-		70-130	-		
3-Chloropropene	90		-		70-130	-		
Carbon disulfide	88		-		70-130	-		
Freon-113	101		-		70-130	-		
trans-1,2-Dichloroethene	90		-		70-130	-		
1,1-Dichloroethane	92		-		70-130	-		
Methyl tert butyl ether	87		-		70-130	-		
2-Butanone	104		-		70-130	-		
cis-1,2-Dichloroethene	93		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

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

Lab Number: L2161368
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-13 Batch: WG1569795-3								
Ethyl Acetate	99		-		70-130	-		
Chloroform	88		-		70-130	-		
Tetrahydrofuran	101		-		70-130	-		
1,2-Dichloroethane	81		-		70-130	-		
n-Hexane	98		-		70-130	-		
1,1,1-Trichloroethane	94		-		70-130	-		
Benzene	86		-		70-130	-		
Carbon tetrachloride	81		-		70-130	-		
Cyclohexane	98		-		70-130	-		
1,2-Dichloropropane	105		-		70-130	-		
Bromodichloromethane	92		-		70-130	-		
1,4-Dioxane	106		-		70-130	-		
Trichloroethene	107		-		70-130	-		
2,2,4-Trimethylpentane	101		-		70-130	-		
Heptane	113		-		70-130	-		
cis-1,3-Dichloropropene	97		-		70-130	-		
4-Methyl-2-pentanone	116		-		70-130	-		
trans-1,3-Dichloropropene	80		-		70-130	-		
1,1,2-Trichloroethane	107		-		70-130	-		
Toluene	103		-		70-130	-		
2-Hexanone	116		-		70-130	-		
Dibromochloromethane	106		-		70-130	-		
1,2-Dibromoethane	99		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

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

Lab Number: L2161368
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-13 Batch: WG1569795-3								
Tetrachloroethene	112		-		70-130	-		
Chlorobenzene	99		-		70-130	-		
Ethylbenzene	109		-		70-130	-		
p/m-Xylene	110		-		70-130	-		
Bromoform	104		-		70-130	-		
Styrene	102		-		70-130	-		
1,1,2,2-Tetrachloroethane	111		-		70-130	-		
o-Xylene	110		-		70-130	-		
4-Ethyltoluene	100		-		70-130	-		
1,3,5-Trimethylbenzene	102		-		70-130	-		
1,2,4-Trimethylbenzene	104		-		70-130	-		
Benzyl chloride	108		-		70-130	-		
1,3-Dichlorobenzene	108		-		70-130	-		
1,4-Dichlorobenzene	109		-		70-130	-		
1,2-Dichlorobenzene	107		-		70-130	-		
1,2,4-Trichlorobenzene	120		-		70-130	-		
Hexachlorobutadiene	108		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

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

Lab Number: L2161368
Report Date: 11/11/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 02,04,06,08,10,12-13 QC Batch ID: WG1569794-5 QC Sample: L2161368-02 Client ID: MB-IA-01						
Vinyl chloride	0.036	0.034	ppbV	6		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	0.058	0.056	ppbV	4		25
Trichloroethene	ND	ND	ppbV	NC		25
Tetrachloroethene	0.034	0.032	ppbV	6		25

Lab Duplicate Analysis
Batch Quality Control

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

Lab Number: L2161368
Report Date: 11/11/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-13 QC Batch ID: WG1569795-5 QC Sample: L2161368-02 Client ID: MB-IA-01						
Dichlorodifluoromethane	0.372	0.365	ppbV	2		25
Chloromethane	0.470	0.446	ppbV	5		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	115	131	ppbV	13		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	5.86	5.59	ppbV	5		25
Trichlorofluoromethane	ND	ND	ppbV	NC		25
Isopropanol	19.9	19.2	ppbV	4		25
Tertiary butyl Alcohol	ND	ND	ppbV	NC		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	ND	ND	ppbV	NC		25
Ethyl Acetate	2.01	1.92	ppbV	5		25

Lab Duplicate Analysis
Batch Quality Control

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

Lab Number: L2161368
Report Date: 11/11/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-13 QC Batch ID: WG1569795-5 QC Sample: L2161368-02 Client ID: MB-IA-01						
Chloroform	0.836	0.833	ppbV	0		25
Tetrahydrofuran	0.825	0.806	ppbV	2		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	0.230	0.230	ppbV	0		25
Benzene	ND	ND	ppbV	NC		25
Cyclohexane	ND	ND	ppbV	NC		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	0.301	0.286	ppbV	5		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	0.294	0.287	ppbV	2		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	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

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

Lab Number: L2161368
Report Date: 11/11/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-13 QC Batch ID: WG1569795-5 QC Sample: L2161368-02 Client ID: MB-IA-01						
p/m-Xylene	ND	ND	ppbV	NC		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	ND	ND	ppbV	NC		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	ND	ND	ppbV	NC		25
4-Ethyltoluene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		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 BCP

Lab Number: L2161368

Project Number: E67.020.006

Report Date: 11/11/21

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 Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2161368-01	MB-SS-01	0928	Flow 4	11/03/21	369418		-	-	-	Pass	3.0	3.1	3
L2161368-01	MB-SS-01	771	6.0L Can	11/03/21	369418	L2158182-10	Pass	-29.3	-7.1	-	-	-	-
L2161368-02	MB-IA-01	0283	Flow 5	11/03/21	369418		-	-	-	Pass	3.0	3.7	21
L2161368-02	MB-IA-01	2785	6.0L Can	11/03/21	369418	L2158363-08	Pass	-29.5	-1.6	-	-	-	-
L2161368-03	MB-SS-02	0616	Flow 5	11/03/21	369418		-	-	-	Pass	3.0	2.7	11
L2161368-03	MB-SS-02	2696	6.0L Can	11/03/21	369418	L2158363-09	Pass	-29.5	-7.8	-	-	-	-
L2161368-04	MB-IA-02	0154	Flow 5	11/03/21	369418		-	-	-	Pass	3.0	3.7	21
L2161368-04	MB-IA-02	1531	6.0L Can	11/03/21	369418	L2158363-05	Pass	-29.3	0.0	-	-	-	-
L2161368-05	MB-SS-03	0984	Flow 5	11/03/21	369418		-	-	-	Pass	3.0	3.0	0
L2161368-05	MB-SS-03	905	6.0L Can	11/03/21	369418	L2158363-09	Pass	-29.5	-11.5	-	-	-	-
L2161368-06	MB-IA-03	01020	Flow 5	11/03/21	369418		-	-	-	Pass	3.0	2.8	7
L2161368-06	MB-IA-03	1794	6.0L Can	11/03/21	369418	L2158182-10	Pass	-29.7	-9.9	-	-	-	-
L2161368-07	RB-SS-01	0950	Flow 4	11/03/21	369418		-	-	-	Pass	3.0	2.7	11
L2161368-07	RB-SS-01	782	6.0L Can	11/03/21	369418	L2158182-10	Pass	-29.5	-9.6	-	-	-	-
L2161368-08	RB-IA-01	01355	Flow 5	11/03/21	369418		-	-	-	Pass	3.0	3.0	0

Project Name: 201 ELLICOTT BCP

Lab Number: L2161368

Project Number: E67.020.006

Report Date: 11/11/21

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 Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2161368-08	RB-IA-01	783	6.0L Can	11/03/21	369418	L2158363-05	Pass	-29.6	0.0	-	-	-	-
L2161368-09	RB-SS-02	01358	Flow 5	11/03/21	369418		-	-	-	Pass	3.0	2.7	11
L2161368-09	RB-SS-02	2722	6.0L Can	11/03/21	369418	L2158182-10	Pass	-29.5	-10.6	-	-	-	-
L2161368-10	RB-IA-02	0497	Flow 5	11/03/21	369418		-	-	-	Pass	3.0	2.8	7
L2161368-10	RB-IA-02	3332	6.0L Can	11/03/21	369418	L2158182-10	Pass	-29.4	-7.9	-	-	-	-
L2161368-11	RB-SS-03	01481	Flow 5	11/03/21	369418		-	-	-	Pass	3.0	2.6	14
L2161368-11	RB-SS-03	2055	6.0L Can	11/03/21	369418	L2158182-10	Pass	-29.5	-8.2	-	-	-	-
L2161368-12	RB-IA-03	01038	Flow 5	11/03/21	369418		-	-	-	Pass	3.0	2.7	11
L2161368-12	RB-IA-03	1562	6.0L Can	11/03/21	369418	L2158363-10	Pass	-29.5	-7.6	-	-	-	-
L2161368-13	OA-01	0788	Flow 5	11/03/21	369418		-	-	-	Pass	3.0	2.8	7
L2161368-13	OA-01	654	6.0L Can	11/03/21	369418	L2158363-05	Pass	-29.5	-4.4	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2158182
Report Date: 11/11/21

Air Canister Certification Results

Lab ID: L2158182-10
Client ID: CAN 1818 SHELF 43
Sample Location:

Date Collected: 10/25/21 08:00
Date Received: 10/25/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 10/27/21 20:06
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
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 **Lab Number:** L2158182

Project Number: CANISTER QC BAT **Report Date:** 11/11/21

Air Canister Certification Results

Lab ID: L2158182-10
Client ID: CAN 1818 SHELF 43
Sample Location:

Date Collected: 10/25/21 08:00
Date Received: 10/25/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	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 **Lab Number:** L2158182

Project Number: CANISTER QC BAT **Report Date:** 11/11/21

Air Canister Certification Results

Lab ID: L2158182-10
Client ID: CAN 1818 SHELF 43
Sample Location:

Date Collected: 10/25/21 08:00
Date Received: 10/25/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	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: L2158182
Report Date: 11/11/21

Air Canister Certification Results

Lab ID: L2158182-10
Client ID: CAN 1818 SHELF 43
Sample Location:

Date Collected: 10/25/21 08:00
Date Received: 10/25/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	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
Project Number: CANISTER QC BAT
Lab Number: L2158182
Report Date: 11/11/21

Air Canister Certification Results

Lab ID: L2158182-10
Client ID: CAN 1818 SHELF 43
Sample Location:

Date Collected: 10/25/21 08:00
Date Received: 10/25/21
Field Prep: Not Specified

Sample Depth:

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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	82		60-140
Bromochloromethane	87		60-140
chlorobenzene-d5	87		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2158182
Report Date: 11/11/21

Air Canister Certification Results

Lab ID: L2158182-10
Client ID: CAN 1818 SHELF 43
Sample Location:

Date Collected: 10/25/21 08:00
Date Received: 10/25/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 10/27/21 20:06
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	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: L2158182
Report Date: 11/11/21

Air Canister Certification Results

Lab ID: L2158182-10
Client ID: CAN 1818 SHELF 43
Sample Location:

Date Collected: 10/25/21 08:00
Date Received: 10/25/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	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	0.100	--	ND	0.377	--		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
1,1,2,2-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: L2158182
Report Date: 11/11/21

Air Canister Certification Results

Lab ID: L2158182-10
Client ID: CAN 1818 SHELF 43
Sample Location:

Date Collected: 10/25/21 08:00
Date Received: 10/25/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	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	90		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	95		60-140

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

Lab Number: L2158363
Report Date: 11/11/21

Air Canister Certification Results

Lab ID: L2158363-05
Client ID: CAN 904 SHELF 34
Sample Location:

Date Collected: 10/25/21 14:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 10/27/21 23:20
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
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 **Lab Number:** L2158363

Project Number: CANISTER QC BAT **Report Date:** 11/11/21

Air Canister Certification Results

Lab ID: L2158363-05
Client ID: CAN 904 SHELF 34
Sample Location:

Date Collected: 10/25/21 14:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	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
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		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: L2158363
Report Date: 11/11/21

Air Canister Certification Results

Lab ID: L2158363-05
Client ID: CAN 904 SHELF 34
Sample Location:

Date Collected: 10/25/21 14:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	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: L2158363
Report Date: 11/11/21

Air Canister Certification Results

Lab ID: L2158363-05
Client ID: CAN 904 SHELF 34
Sample Location:

Date Collected: 10/25/21 14:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	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
Project Number: CANISTER QC BAT
Lab Number: L2158363
Report Date: 11/11/21

Air Canister Certification Results

Lab ID: L2158363-05
Client ID: CAN 904 SHELF 34
Sample Location:

Date Collected: 10/25/21 14:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	85		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	89		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2158363

Project Number: CANISTER QC BAT **Report Date:** 11/11/21

Air Canister Certification Results

Lab ID: L2158363-05
Client ID: CAN 904 SHELF 34
Sample Location:

Date Collected: 10/25/21 14:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 10/27/21 23:20
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	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: L2158363
Report Date: 11/11/21

Air Canister Certification Results

Lab ID: L2158363-05
Client ID: CAN 904 SHELF 34
Sample Location:

Date Collected: 10/25/21 14:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	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	0.100	--	ND	0.377	--		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
1,1,2,2-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: L2158363
Report Date: 11/11/21

Air Canister Certification Results

Lab ID: L2158363-05
Client ID: CAN 904 SHELF 34
Sample Location:

Date Collected: 10/25/21 14:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	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	93		60-140
chlorobenzene-d5	97		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2158363
Report Date: 11/11/21

Air Canister Certification Results

Lab ID: L2158363-08
Client ID: CAN 2002 SHELF 40
Sample Location:

Date Collected: 10/26/21 08:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 10/28/21 18:10
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
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 **Lab Number:** L2158363

Project Number: CANISTER QC BAT **Report Date:** 11/11/21

Air Canister Certification Results

Lab ID: L2158363-08
Client ID: CAN 2002 SHELF 40
Sample Location:

Date Collected: 10/26/21 08:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	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 **Lab Number:** L2158363

Project Number: CANISTER QC BAT **Report Date:** 11/11/21

Air Canister Certification Results

Lab ID: L2158363-08
Client ID: CAN 2002 SHELF 40
Sample Location:

Date Collected: 10/26/21 08:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	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: L2158363
Report Date: 11/11/21

Air Canister Certification Results

Lab ID: L2158363-08
Client ID: CAN 2002 SHELF 40
Sample Location:

Date Collected: 10/26/21 08:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	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
Project Number: CANISTER QC BAT
Lab Number: L2158363
Report Date: 11/11/21

Air Canister Certification Results

Lab ID: L2158363-08
Client ID: CAN 2002 SHELF 40
Sample Location:

Date Collected: 10/26/21 08:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	86		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	87		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2158363
Report Date: 11/11/21

Air Canister Certification Results

Lab ID: L2158363-08
Client ID: CAN 2002 SHELF 40
Sample Location:

Date Collected: 10/26/21 08:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 10/28/21 18:10
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	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: L2158363
Report Date: 11/11/21

Air Canister Certification Results

Lab ID: L2158363-08
Client ID: CAN 2002 SHELF 40
Sample Location:

Date Collected: 10/26/21 08:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	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	0.100	--	ND	0.377	--		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
1,1,2,2-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:** L2158363

Project Number: CANISTER QC BAT **Report Date:** 11/11/21

Air Canister Certification Results

Lab ID: L2158363-08
Client ID: CAN 2002 SHELF 40
Sample Location:

Date Collected: 10/26/21 08:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	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	86		60-140
bromochloromethane	88		60-140
chlorobenzene-d5	87		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2158363
Report Date: 11/11/21

Air Canister Certification Results

Lab ID: L2158363-09
Client ID: CAN 611 SHELF 41
Sample Location:

Date Collected: 10/26/21 08:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 10/28/21 18:48
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
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 **Lab Number:** L2158363

Project Number: CANISTER QC BAT **Report Date:** 11/11/21

Air Canister Certification Results

Lab ID: L2158363-09
Client ID: CAN 611 SHELF 41
Sample Location:

Date Collected: 10/26/21 08:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	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
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		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 **Lab Number:** L2158363

Project Number: CANISTER QC BAT **Report Date:** 11/11/21

Air Canister Certification Results

Lab ID: L2158363-09
Client ID: CAN 611 SHELF 41
Sample Location:

Date Collected: 10/26/21 08:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	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: L2158363
Report Date: 11/11/21

Air Canister Certification Results

Lab ID: L2158363-09
Client ID: CAN 611 SHELF 41
Sample Location:

Date Collected: 10/26/21 08:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	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
Project Number: CANISTER QC BAT
Lab Number: L2158363
Report Date: 11/11/21

Air Canister Certification Results

Lab ID: L2158363-09
Client ID: CAN 611 SHELF 41
Sample Location:

Date Collected: 10/26/21 08:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	89		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2158363
Report Date: 11/11/21

Air Canister Certification Results

Lab ID: L2158363-09
Client ID: CAN 611 SHELF 41
Sample Location:

Date Collected: 10/26/21 08:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 10/28/21 18:48
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	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 **Lab Number:** L2158363

Project Number: CANISTER QC BAT **Report Date:** 11/11/21

Air Canister Certification Results

Lab ID: L2158363-09
Client ID: CAN 611 SHELF 41
Sample Location:

Date Collected: 10/26/21 08:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	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	0.100	--	ND	0.377	--		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
1,1,2,2-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: L2158363
Report Date: 11/11/21

Air Canister Certification Results

Lab ID: L2158363-09
Client ID: CAN 611 SHELF 41
Sample Location:

Date Collected: 10/26/21 08:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	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	88		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	89		60-140

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

Lab Number: L2158363
Report Date: 11/11/21

Air Canister Certification Results

Lab ID: L2158363-10
Client ID: CAN 2295 SHELF 45
Sample Location:

Date Collected: 10/26/21 08:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 10/28/21 19:27
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
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 **Lab Number:** L2158363

Project Number: CANISTER QC BAT **Report Date:** 11/11/21

Air Canister Certification Results

Lab ID: L2158363-10
Client ID: CAN 2295 SHELF 45
Sample Location:

Date Collected: 10/26/21 08:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	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
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		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 **Lab Number:** L2158363

Project Number: CANISTER QC BAT **Report Date:** 11/11/21

Air Canister Certification Results

Lab ID: L2158363-10
Client ID: CAN 2295 SHELF 45
Sample Location:

Date Collected: 10/26/21 08:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	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: L2158363
Report Date: 11/11/21

Air Canister Certification Results

Lab ID: L2158363-10
Client ID: CAN 2295 SHELF 45
Sample Location:

Date Collected: 10/26/21 08:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	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
Project Number: CANISTER QC BAT
Lab Number: L2158363
Report Date: 11/11/21

Air Canister Certification Results

Lab ID: L2158363-10
Client ID: CAN 2295 SHELF 45
Sample Location:

Date Collected: 10/26/21 08:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	89		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	89		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2158363
Report Date: 11/11/21

Air Canister Certification Results

Lab ID: L2158363-10
Client ID: CAN 2295 SHELF 45
Sample Location:

Date Collected: 10/26/21 08:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 10/28/21 19:27
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	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 **Lab Number:** L2158363

Project Number: CANISTER QC BAT **Report Date:** 11/11/21

Air Canister Certification Results

Lab ID: L2158363-10
Client ID: CAN 2295 SHELF 45
Sample Location:

Date Collected: 10/26/21 08:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	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	0.100	--	ND	0.377	--		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
1,1,2,2-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:** L2158363

Project Number: CANISTER QC BAT **Report Date:** 11/11/21

Air Canister Certification Results

Lab ID: L2158363-10
Client ID: CAN 2295 SHELF 45
Sample Location:

Date Collected: 10/26/21 08:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	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	89		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	90		60-140

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

Lab Number: L2161368
Report Date: 11/11/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2161368-01A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2161368-02A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2161368-03A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2161368-04A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2161368-05A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2161368-06A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2161368-07A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2161368-08A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2161368-09A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2161368-10A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2161368-11A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2161368-12A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2161368-13A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	201 ELLICOTT BCP	**Lab Number:**	L2161368
Project Number:	E67.020.006	**Report Date:**	11/11/21

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 BCP	**Lab Number:**	L2161368
Project Number:	E67.020.006	**Report Date:**	11/11/21

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

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 BCP	**Lab Number:**	L2161368
Project Number:	E67.020.006	**Report Date:**	11/11/21

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.

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

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

Report Format: Data Usability Report

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: 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, SM4500Cl-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 2

CHAIN OF CUSTODY

Date Rec'd in Lab: 11/9/21

ALPHA Job #: L2161368

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

Client Information

Client: C&S Engineers
Address: 14 Elm
Buffalo, NY
Phone:
Fax:
Email: cmartin@cscos.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 201 Ellicott BCP
Project Location:
Project #: E67.020.006
Project Manager:
ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved!) 3-day
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☒ ADEx
Criteria Checker: NYSDOH
(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
NYSDOH		

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	ANALYSIS TO-15	TO-15 SIM	APH Subset Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
61368-01	MB-SS-01	11/6	12:[illegible]	12:57	-30.[illegible]	-8.46	SV	CM	6L	[illegible]	[illegible]	X					0ppm
02	MB-IA-01	11/6	12:[illegible]	12:55	-30.[illegible]	-2.46	AA			[illegible]	1600	X					
03	MB-SS-02	11/6	12:57	12:44	-30.00	-8.79	SV			2616	616	X					0ppm
04	MB-IA-02	11/6	1:00	12:45	-29.92	-6.00	AA			1531	154	X					
05	MB-SS-03	11/6	12:30	12:27	-30.12	-12.08	SV			905	984	X					0ppm
06	MB-IA-03	11/6	12:40	12:30	-30.09	-10.20	AA			1794	1020	X					

*SAMPLE MATRIX CODES

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

Container Type: 6L

Relinquished By:	Date/Time	Received By:	Date/Time:
[illegible] AAL	11/8/21 13:20	[illegible] AAL	11/08/21 13:20
[illegible] AAL	11/08/21 16:00	[illegible]	11/9/21 01:10
[illegible]	11/9/21 2:32	[illegible]	11/9/21 0230
[illegible]	11/9/21 [illegible]	[illegible]	11/9/21 [illegible]

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.

AIR ANALYSIS

PAGE 2 OF 2

CHAIN OF CUSTODY

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

Date Rec'd in Lab: 11/9/21

ALPHA Job #: L2161368

Client Information

Client: C&S Engineers, Inc
Address: 14 Elm Buffalo, NY
Phone:
Fax:
Email: CMartin@CSCOS.COM

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 201 Elliott BCP
Project Location:
Project #: E67.020.006
Project Manager:
ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved!) 3-day
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☒ ADEx
Criteria Checker: NYSDOH
(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
NYSDOH		

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH Subtract Non-petroleum HCs	Fixed Gases ☐	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
07	RB-SS-01	11/6	12:01	12:00	-30.23	-0.00	SV	CM	6L	782	950	X					7.5 ppm
08	RB-IA-01	11/6	12:03	11:59	-29.99	-0.00	AA			788	1355	X					
09	RB-SS-02	11/6	12:19	12:08	-29.62	-1.31	SV			2222	1352	X					77 ppm
10	RB-IA-02	11/6	12:20	12:07	-30.02	-9.13	AA			3332	497	X					
11	RB-SS-03	11/6	12:22	12:15	-31.24	-9.21	SV			2555	1481	X					0.6 ppm
12	RB-IA-03	11/6	12:23	12:12	-30.14	-7.91	AA			1562	1038	X					
13	OA-01	11/6	1:05	1:17	-30.17	-5.15	AA			654	788	X					

*SAMPLE MATRIX CODES

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

Container Type: 6S

Relinquished By:	Date/Time	Received By:	Date/Time:
	11/8/21 13:20	AAC	11/08/21 13:20
	11/08/21 16:00		11/9/21 01:10
	11/8/21 2:30		11/9/21 0230

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.

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

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:	5-Nov-21
Weather / Temp / Wind:	Overcast / 45 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)

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 a grocery store.
Cleaning products in storage room next to MB-SS-2 (detergents and disinfectants)

PID Results at sample locations:

MB-SS-1 = 0 ppm
MB-SS-2 = 0 ppm
MB-SS-3 = 0 ppm

Sample Location Sketch

SEE FIGURE 5

Building Survey Form

Site Name:	201 Ellicott Street BCP - Residential Building
Site Address:	201 Ellicott Street Buffalo, New York
C&S Project #:	E67.020.006
C&S Staff:	Cody Martin
Date:	5-Nov-21
Weather / Temp / Wind:	Sunny / 45 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 from 1st floor (RB-SS-3 and RB-IA-3)
1 sub-slab and 1 indoor air sample from 1st floor (RB-SS-2 and RB-IA-2)
1 sub-slab and 1 indoor air sample from 1st floor (RB-SS-1 and RB-IA-1)
1 outdoor sample located bewteen the Market and Residential Buildings (OA-1)

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

Slab on grade construction, apartments, 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.
Indoor paints

PID Results at sample locations:

RB-SS-1 = 7.5 ppm
RB-SS-2 = 77 ppm
RB-SS-3 = 0.6 ppm

Sample Location Sketch

SEE FIGURE 5