



CASTLETON

ENVIRONMENTAL

May 17, 2023

Mr. Joseph Jones
Project Manager
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 11233
Joseph.jones@dec.ny.gov

**RE: Soil Vapor Intrusion Investigation Report
125 State Street, Westbury, New York**

Dear Mr. Jones,

Please find the attached Soil Vapor Intrusion Investigation Report for the above referenced property.

If you have any questions or need anything else, please do not hesitate to contact me.

Very truly yours,
Castleton Environmental Inc.

Frank P. Castellano
Principal



CASTLETON

ENVIRONMENTAL

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Soil Vapor Intrusion Investigation Report 125 State Street Westbury, New York NYSDEC Site No. 130043C MAY 2023



Prepared for:

1st State LLC
125 State Street
Westbury, NY 11590
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**SOIL VAPOR INTRUSTION INVESTIGATION
125 STATE STREET SITE
NYSDEC SITE NO. 130043C
CASTLETON PROJECT NUMBER: TOMC2201
MAY 2023**

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1.0 INTRODUCTION

Castleton Environmental Geologic Services, DPC (Castleton) has prepared this Soil Vapor Intrusion (SVI) Investigation Report to document the SVI Investigation recently performed at the property located at 125 State Street, Westbury, New York (the site). The work was performed on behalf of 1st State LLC (the Property Owner) at the request of the New York State Department of Environmental Conservation (NYSDEC) to re-evaluate SVI at the site.

The work was performed in accordance with the SVI Investigation Work Plan dated January 2023 by Castleton and approved by NYSDEC on February 24, 2023. The NYSDEC approval letter is included as Appendix A. There were no deviations to the approved SVI Investigation Work Plan except as described in Section 3.0 with reference to the need for a second sampling event.

2.0 SITE BACKGROUND

The site is located at 125 State Street, Westbury, New York (Figure 1). The site is located in the central part of the New Cassel Industrial Area. The site is approximately 0.665-acres in size and is occupied by a one-story building with a mezzanine and no basement (Figure 2). The remainder of the site is paved. The site is zoned commercial. The site is currently occupied by Tomco Mechanical, a heating, ventilation, and air conditioning (HVAC) installation and services provider. Formerly, the site was occupied by Tishcon Corporation (Tishcon) from 1984 to 1996. Tishcon produced dietary supplements and vitamin products in the form of powder and tablets. The powders and tablets were produced in a dry blending process. From 1985 to 1993, the chemicals methylene chloride, 1,1,1-trichloroethane (1,1,1-TCA), and methanol were used in the tablet coating process. Equipment used in the process was rinsed out in the driveway where storm drains were located.

In 2005, the site was designated as an SVI Legacy site requiring evaluation of the SVI pathway for the building situated on the site. In February 2011, a consultant representing the NYSDEC collected three (3) soil vapor samples from beneath the site building, three (3) indoor air samples from within the site building, and one (1) ambient air sample outside the site building. The purpose of the sampling was to assess the potential for site-related contamination to enter the site building and affect the indoor air quality through SVI.

Tetrachloroethene (PCE) and 1,1,1-TCA, each considered site-related contaminants, were reported in the analytical results during the February 2011 investigation. PCE and 1,1,1-TCA were detected at maximum concentrations of 9,800 ug/m³ and 3,300 ug/m³, respectively, in soil vapor beneath the southwest corner of the site building.

Upon comparison to the decision matrices found in the NYSDOH *Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (NYSDOH October 2006), the levels of PCE and 1,1,1-TCA in soil vapor beneath the building require mitigation by the criteria established therein.

NYSDEC requested that 1st State, LLC re-evaluate the SVI conditions at the site in a letter dated November 17, 2021. A copy of the November 17, 2021, letter from NYSDEC is included in Appendix B.

3.0 SOIL VAPOR INTRUSION INVESTIGATION

On March 7 and 8 and March 29 and 30, 2023, Castleton performed an SVI investigation throughout the building's first floor to quantify VOCs in sub-slab vapor and ambient air and determine if/where an SVI condition exists. To assess the likely worst-case conditions, the sampling was performed during the heating season. The investigation included the installation of four (4) sub-slab vapor sampling points (SSV01 through SSV04), four (4) indoor air sampling points (IAQ01 through IAQ04), and one (1) outdoor air sample (OAQ01). Each of the sub-slab sampling points were installed by drilling a ¼" diameter hole through the concrete building slab and installing temporary sampling implants no more than 2" below the bottom of the slab. Each implant included dedicated tubing and bentonite seal. Prior to sampling, the integrity/seal of each implant was tested using a helium tracer gas and each tested tight. A summary of the sampling locations is provided in the following table:

Location	Sub-Slab Vapor	Indoor Air	Outdoor Air
First Floor – Forever Iron Doors (Warehouse)	SSV01	IAQ01	
First Floor – Tomco Mechanical (Warehouse/Manufacturing)	SSV02	IAQ02	
First Floor – Tomco Mechanical (Warehouse/Manufacturing)	SSV03	IAQ03	
First Floor – Tomco Mechanical (Office/Kitchen Closet)	SSV04	IAQ04	
Outside SW Portion of Building			OAQ01
Total	4	4	1

The vapor and air sampling locations are shown on Figure 3.

Each sub-slab sample location was screened for the presence of VOCs and purged using a photoionization detector (PID). The recorded PID VOC concentrations ranged from 0.4 parts per million (ppm) in SSV03 to 3.5 ppm in SSV04. Background concentrations ranged from 0.0 ppm to 0.4 ppm.

A copy of the SVI sampling logs is provided in Appendix C.

The vapor and air samples were collected in laboratory supplied 6-liter SUMMA canisters (batch certified clean) by the laboratory fitted with flow controllers not to exceed .02 L/min set to run for approximately 24-hours. The indoor air samples were placed approximately 3 to 5 feet above the building slab proximate to the sub-slab vapor locations and the outdoor air sample was placed 3 to 5 feet above ground level.

Samples were submitted to Alpha Analytical, of Mansfield Massachusetts, a NYSDOH Environmental Laboratory Accreditation Program (ELAP) certified laboratory and analyzed for VOCs by USEPA Method TO-15 and TO-15 SIM to accommodate the detection limits required as specified in the NYSDOH Decision Matrices updated May 2017.

Please be advised that, during the March 7-8 sampling event, no viable sample was collected from sub-slab vapor sample SSV04 as the flow controller was reported by the laboratory as being clogged. As such, Castleton remobilized to the site on March 29-30 to resample this sub-slab vapor sampling point and associated indoor air sampling location.

SVI Structure Sampling and Building Questionnaires were completed prior to sampling. The NYSDOH SVI Inventory Forms are included in Appendix D. Notably, the use and storage of various chemicals, i.e., degreasers, strippers, lubricants, and refrigerants were observed within the manufacturing, warehouse, and garage spaces of Tomco Mechanical. In addition, household cleaning products containing bleach were observed within the kitchen and kitchen closet.

The weather conditions observed during the sampling events are provided in Appendix E.

4.0 ANALYTICAL RESULTS

The sub-slab vapor and ambient air analytical results were evaluated using the NYSDOH *Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, October 2006 with updates (2017), including the May 2017 Decision Matrices and Indoor Air Guideline Values (AGVs).

NYSDOH Decision Matrices have been established for the chlorinated compounds carbon tetrachloride, 1,1-dichloroethene (1,1-DCE), cis-1,2-dichloroethene (cis-1,2-DCE), and trichloroethene (TCE) (Matrix A); methylene chloride, PCE, and 1,1,1-TCA (Matrix B); and vinyl chloride (Matrix C).

4.1 Ambient Air Analytical Results

Indoor air quality analytical results were compared to NYSDOH AGVs. AGVs are applicable to a limited list of compounds including methylene chloride (60 ug/m³), PCE (30 ug/m³) and TCE (2 ug/m³).

Methylene chloride, PCE, and TCE were reported as non-detect or below their applicable AGVs in the four (4) indoor air samples analyzed.

The following table shows the concentrations of these VOCs reported in the indoor and outdoor air samples:

Compound	NYSDOH Air Guideline Value (ug/m ³)	IAQ01 (ug/m ³)	IAQ02 (ug/m ³)	IAQ03 (ug/m ³)	IAQ04 (ug/m ³)	OAQ01 (ug/m ³) 3/8	OAQ01 (ug/m ³) 3/30
Methylene Chloride	60	6.01	1.83	<1.74	<1.74	<1.74	<1.74
Tetrachloroethene (PCE)	30	0.224	0.183	0.19	0.502	<0.136	<0.136
Trichloroethene (TCE)	2	<0.107	<0.107	<0.107	<0.107	<0.107	<0.107

-ug/m³ = micrograms per cubic meter

ND = Non-Detect

Several analytes were detected in outdoor air sample OAQ01 collected during the sampling events. Most notably, carbon tetrachloride was reported at 0.503 ug/m³ and 0.522 ug/m³ in outdoor sample OAQ01 during the sampling events.

The ambient air results are summarized in Table 1. The complete laboratory reports are included in Appendix F.

4.2 Soil Vapor Intrusion Comparison

The reported concentrations in sub-slab and indoor air analytical concentrations from the sampling event were entered into the applicable NYSDOH Decision Matrices. The tables compare the results of the sub-slab vapor samples to that of the indoor air samples. The results of this comparison yield the NYSDOH's recommended action.

The following tables describe the SVI comparison and NYSDOH recommendation:

	IAQ01 (ug/m ³)	SSV01 (ug/m ³)	NYSDOH RECOMMENDED ACTION
1,1,1-Trichloroethane	<0.109	278	No Further Action
1,1-Dichloroethene	<0.079	<0.793	No Further Action
Carbon Tetrachloride	0.616	<1.26	No Further Action
Cis-1,2-Dichloroethene	<0.079	<0.793	No Further Action
Methylene Chloride	6.01	<1.74	No Further Action
Tetrachloroethene	0.224	285	No Further Action
Trichloroethene	<1.07	<1.07	No Further Action
Vinyl Chloride	<0.051	<0.511	No Further Action

	IAQ02	SSV02	NYSDOH RECOMMENDED ACTION
1,1,1-Trichloroethane	<0.109	123	No Further Action
1,1-Dichloroethene	<0.079	<0.793	No Further Action
Carbon Tetrachloride	0.591	<1.26	No Further Action
Cis-1,2-Dichloroethene	<0.079	<0.793	No Further Action
Methylene Chloride	1.83	10.6	No Further Action
Tetrachloroethene	0.183	283	No Further Action
Trichloroethene	<1.07	1.35	No Further Action
Vinyl Chloride	<0.051	<0.511	No Further Action

	IAQ03	SSV03	NYSDOH RECOMMENDED ACTION
1,1,1-Trichloroethane	<0.109	205	No Further Action
1,1-Dichloroethene	<0.079	<2.2	No Further Action
Carbon Tetrachloride	0.554	<3.5	No Further Action
Cis-1,2-Dichloroethene	<0.079	<2.2	No Further Action
Methylene Chloride	<1.74	<4.83	No Further Action
Tetrachloroethene	0.19	787	No Further Action
Trichloroethene	<1.07	6.13	No Further Action
Vinyl Chloride	<0.051	<1.42	No Further Action

	IAQ04	SSV04	NYSDOH RECOMMENDED ACTION
1,1,1-Trichloroethane	<0.109	142	No Further Action
1,1-Dichloroethene	<0.079	<0.222	No Further Action
Carbon Tetrachloride	1.05	0.370	Identify Source(s) and Resample or Mitigate
Cis-1,2-Dichloroethene	<0.079	<0.222	No Further Action
Methylene Chloride	<1.74	<4.86	No Further Action
Tetrachloroethene	0.502	455	No Further Action
Trichloroethene	<1.07	7.47	No Further Action
Vinyl Chloride	<0.051	<0.143	No Further Action

According to the NYSDOH Decision Matrices, no further action is recommended for the compounds 1,1-DCE, cis-1,2-DCE, TCE, methylene chloride, PCE, 1,1,1-TCA, and vinyl chloride.

Per the NYSDOH Decision Matrices, for sample location SSV04/IAQ04, the recommended action for carbon tetrachloride is to identify source(s) and resample or mitigate. The recommendation is driven by the indoor air concentration of 1.05 ug/m³ as the sub-slab concentration for carbon

tetrachloride was reported as 0.370 ug/m³ and below its lower response threshold of 6 ug/m³. No further action is recommended for carbon tetrachloride at the remaining sample locations.

Specific potential indoor sources of carbon tetrachloride were not identified during the sampling event. Notably, however, household cleaning products containing bleach were observed within the kitchen and kitchen closet. Household cleaning products containing bleach can produce volatile organic compounds, including carbon tetrachloride. As such, the elevated indoor carbon tetrachloride concentrations can be attributable to the use and storage of these products in this area of the site building. Therefore, the elevated level of carbon tetrachloride detected in indoor air sample IAQ04 is likely due to indoor sources as opposed to an SVI condition given the concentrations detected in the sub-slab samples.

Notably, the compounds yielding the highest concentrations in the sub-slab vapor were PCE and 1,1,1-TCA which is consistent with the 2011 sampling, however, the concentrations during this recent sampling event were an order of magnitude lower.

Accordingly, based on the dataset, an SVI condition does not exist, and no further action is recommended.

The sub-slab vapor results are summarized in Table 2.

The complete laboratory report is provided in Appendix F. Copies of the NYSDOH Decision Matrices are included in Appendix G.

4.3 Data Usability Summary Report (DUSR)

A Data Usability Summary Report (DUSR) will be prepared by a third-party contractor, which will present the results of data validation, including a summary assessment of laboratory data packages, sample preservation, and chain of custody procedures, and a summary of assessment of precision, accuracy, representativeness, comparability, and completeness for each analytical method.

The DUSR is being prepared by Laboratory Data Consultants, Inc. (LDC), of Carlsbad, California and will be submitted under separate cover upon its completion.

5.0 CONCLUSIONS

Castleton has prepared this SVI Investigation Report to document the results of the recent sub-slab vapor and ambient air sampling performed at the site.

On March 7-8 and March 29-30, 2023, Castleton performed an SVI investigation throughout the site to quantify VOCs in sub-slab vapor and air and determine if/where an SVI condition exists.

The dataset and NYSDOH Decision Matrices indicate that no further action is recommended for the compounds 1,1-DCE, cis-1,2-DCE, TCE, methylene chloride, PCE, 1,1,1-TCA, and vinyl chloride.

Based on the dataset and comparison to the NYSDOH Decision Matrices, for sample location SSV04/IAQ04, the recommended action for carbon tetrachloride is to identify source(s) and resample or mitigate. It should be noted that the recommendation is driven by the indoor air concentration as opposed to the sub-slab concentration which was reported as non-detect. No further action is recommended for carbon tetrachloride at the remaining sample locations.

Specific potential indoor sources of carbon tetrachloride were not identified during the sampling event. Notably, however, household cleaning products containing bleach were observed within the kitchen and kitchen closet. Household cleaning products containing bleach can produce volatile organic compounds, including carbon tetrachloride. As such, the elevated indoor carbon tetrachloride concentrations can be attributable to the use and storage of these products in this area of the site building. Therefore, the elevated level of carbon tetrachloride detected in indoor air sample IAQ04 is likely due to indoor sources as opposed to an SVI condition given the concentrations detected in the sub-slab samples.

Notably, the compounds yielding the highest concentrations in the sub-slab vapor were PCE and 1,1,1-TCA which is consistent with the 2011 sampling, however, the concentrations during this recent sampling event were an order of magnitude lower.

Accordingly, based on the dataset, an SVI condition does not exist, and no further action is recommended.

If you have any questions, please do not hesitate to contact this office.

Very truly yours,

Castleton Environmental Geologic Services, DPC

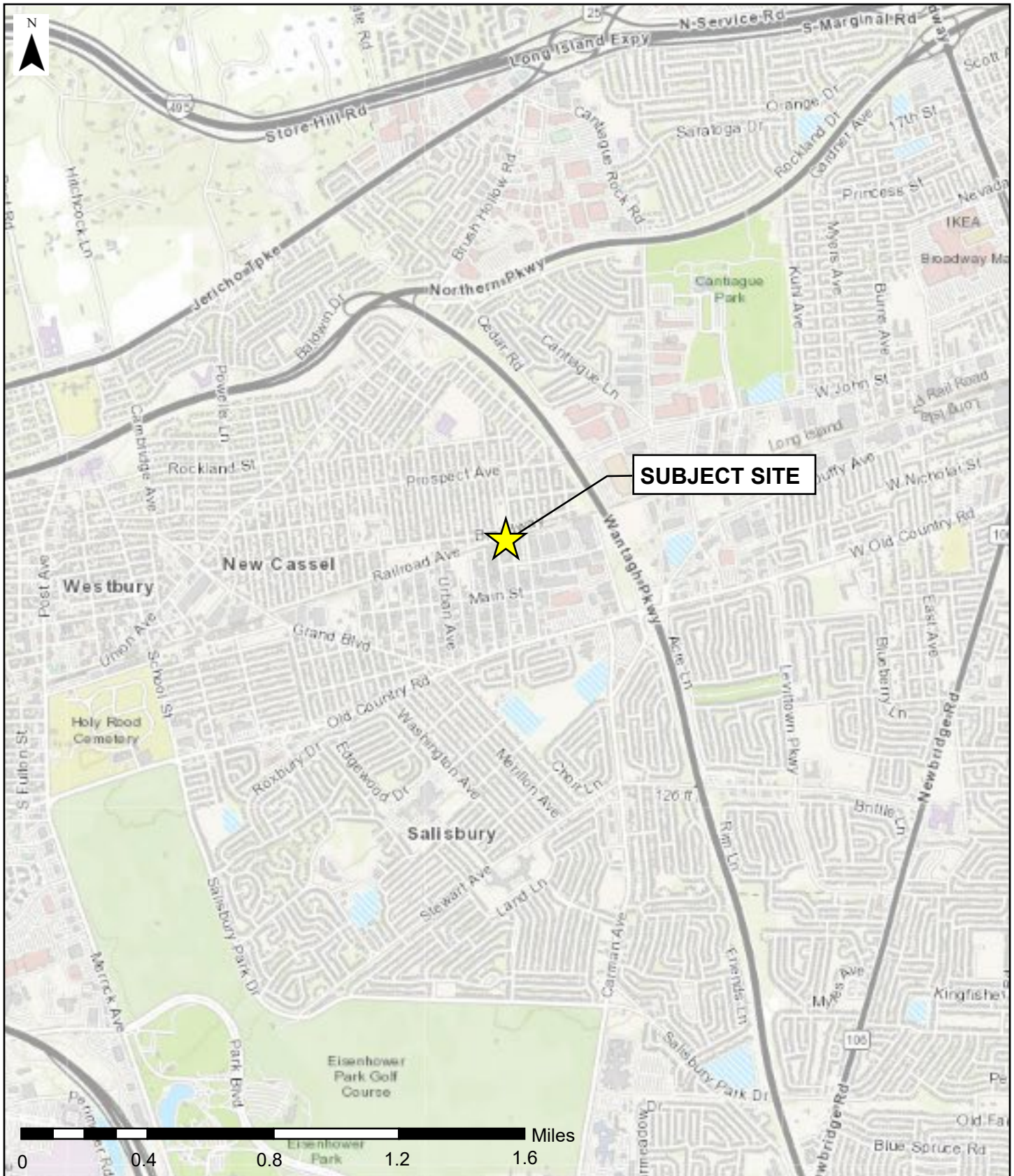


Frank P. Castellano, PG
Principal



Daren Murphy
Project Manager

FIGURES



SITE LOCATION

125 State Street
Westbury, NY

PREPARED FOR: Mr. Anthony Martinelli, 1st State LLC, 125 State St, Westbury, NY

PROJECT: TOMC2201
 DATE: 11/16/2022
 SCALE: AS SHOWN
 DRAWN BY: JZ
 APPROVED BY: DM

FIGURE:

1



P: 631-482-1818
F: 631-321-4349
E: info@castletonenv.com
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 Site Boundary

PREPARED FOR:
1st State LLC
125 State Street,
Westbury, NY

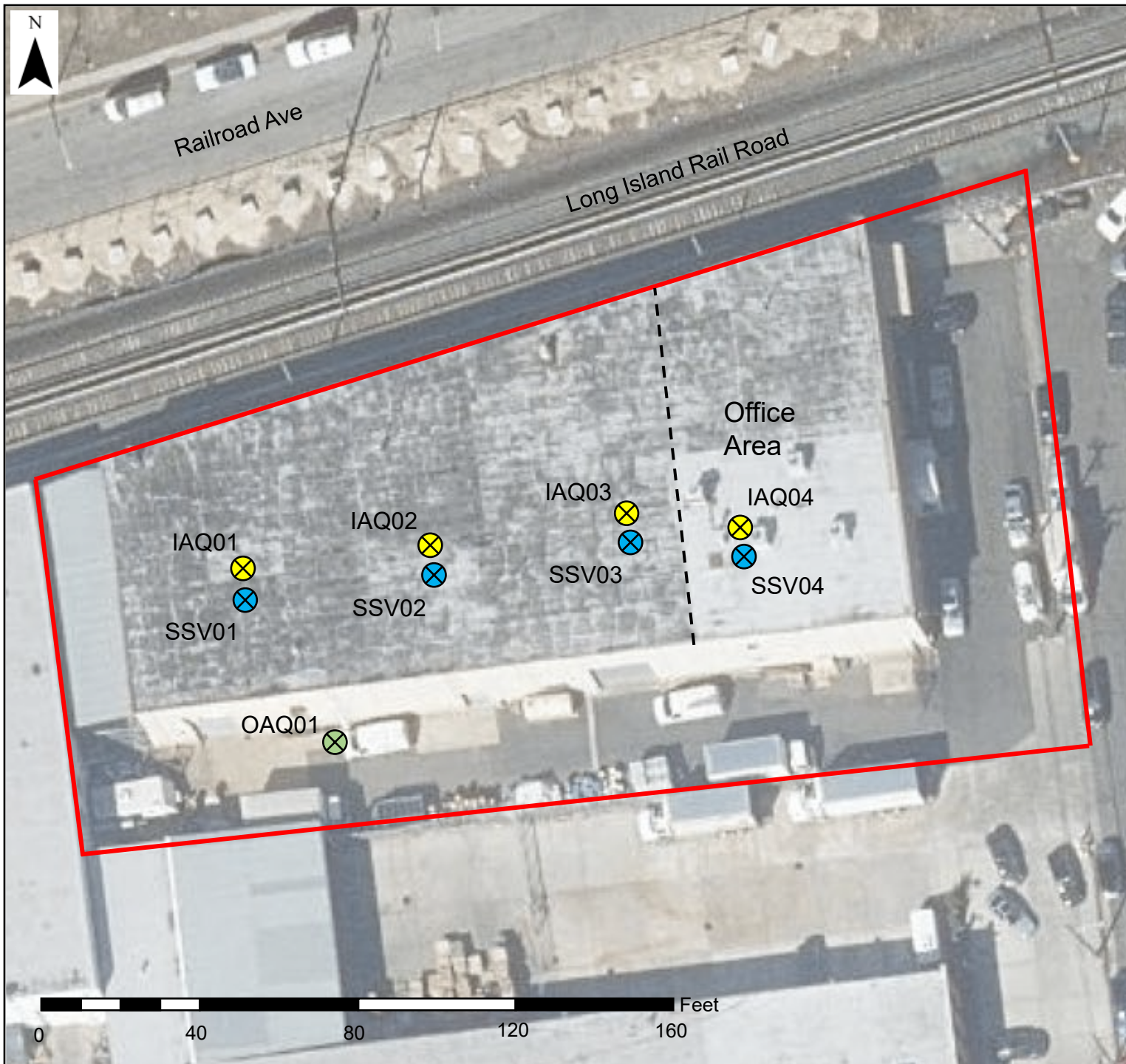
PROJECT:	TOMC2201
DATE:	11/17/2022
SCALE:	AS SHOWN
DRAWN BY:	JZ
APPROVED BY:	DM

Site Plan

125 State Street
Westbury, NY

FIGURE:

2



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-  Indoor Air Sample
-  Sub-Slab Vapor Sample
-  Outdoor Air Sample
-  Site Boundary

PREPARED FOR:
1st State LLC
125 State Street,
Westbury, NY

PROJECT:	TOMC2201
DATE:	4/19/2023
SCALE:	AS SHOWN
DRAWN BY:	JZ
APPROVED BY:	DM

Sample Locations

125 State Street,
Westbury, NY

FIGURE:

3



TABLES

TABLE 1
AMBIENT AIR ANALYTICAL RESULTS SUMMARY
VOCs
125 STATE STREET, WESTBURY, NEW YORK
APRIL 2023

SAMPLE ID:		IAQ01				IAQ02				IAQ03				IAQ04				OAQ01				OAQ01			
LAB ID:		L2312494-05				L2312494-06				L2312494-07				L2316923-02				L2312494-09				L2316923-03			
COLLECTION DATE:		3/8/2023				3/8/2023				3/8/2023				3/30/2023				3/8/2023				3/30/2023			
SAMPLE MATRIX:		AIR				AIR				AIR				AIR				AIR				AIR			
ANALYTE	CAS	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS IN AIR (ug/m3)																									
Dichlorodifluoromethane	75-71-8	26.8	0.989	-	-	30.9	0.989	-	-	61.3	0.989	-	-	64.3	0.989	-	-	2.36	0.989	-	-	2.68	0.989	-	-
Chloromethane	74-87-3	1.07	0.413	-	-	1.11	0.413	-	-	1.12	0.413	-	-	1.23	0.413	-	-	1.11	0.413	-	-	1.51	0.413	-	-
Freon-114	76-14-2	ND	1.4	-	-	ND	1.4	-	-	ND	1.4	-	-	ND	1.4	-	-	ND	1.4	-	-	ND	1.4	-	-
Vinyl chloride	75-01-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Butadiene	106-99-0	ND	0.442	-	-	ND	0.442	-	-	ND	0.442	-	-	ND	0.442	-	-	ND	0.442	-	-	ND	0.442	-	-
Bromomethane	74-83-9	ND	0.777	-	-	ND	0.777	-	-	ND	0.777	-	-	ND	0.777	-	-	ND	0.777	-	-	ND	0.777	-	-
Chloroethane	75-00-3	ND	0.528	-	-	ND	0.528	-	-	ND	0.528	-	-	ND	0.528	-	-	ND	0.528	-	-	ND	0.528	-	-
Ethanol	64-17-5	43	9.42	-	-	36.4	9.42	-	-	83.1	9.42	-	-	513	9.42	-	-	20	9.42	-	-	128	9.42	-	-
Vinyl bromide	593-60-2	ND	0.874	-	-	ND	0.874	-	-	ND	0.874	-	-	ND	0.874	-	-	ND	0.874	-	-	ND	0.874	-	-
Acetone	67-64-1	52.7	2.38	-	-	51.1	2.38	-	-	45.1	2.38	-	-	48.9	2.38	-	-	14.4	2.38	-	-	95.7	2.38	-	-
Trichlorofluoromethane	75-69-4	1.31	1.12	-	-	1.3	1.12	-	-	1.35	1.12	-	-	1.33	1.12	-	-	1.25	1.12	-	-	1.31	1.12	-	-
Isopropanol	67-63-0	5.53	1.23	-	-	3.91	1.23	-	-	6.81	1.23	-	-	52.8	1.23	-	-	ND	1.23	-	-	2.93	1.23	-	-
1,1-Dichloroethene	75-35-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tertiary butyl Alcohol	75-65-0	ND	1.52	-	-	2.72	1.52	-	-	1.65	1.52	-	-	ND	1.52	-	-	5.03	1.52	-	-	70.6	1.52	-	-
Methylene chloride	75-09-2	6.01	1.74	-	-	1.83	1.74	-	-	ND	1.74	-	-	ND	1.74	-	-	ND	1.74	-	-	ND	1.74	-	-
3-Chloropropene	107-05-1	ND	0.626	-	-	ND	0.626	-	-	ND	0.626	-	-	ND	0.626	-	-	ND	0.626	-	-	ND	0.626	-	-
Carbon disulfide	75-15-0	ND	0.623	-	-	ND	0.623	-	-	ND	0.623	-	-	ND	0.623	-	-	ND	0.623	-	-	ND	0.623	-	-
Freon-113	76-13-1	ND	1.53	-	-	ND	1.53	-	-	ND	1.53	-	-	ND	1.53	-	-	ND	1.53	-	-	ND	1.53	-	-
trans-1,2-Dichloroethene	156-60-5	ND	0.793	-	-	ND	0.793	-	-	ND	0.793	-	-	ND	0.793	-	-	ND	0.793	-	-	ND	0.793	-	-
1,1-Dichloroethane	75-34-3	ND	0.809	-	-	ND	0.809	-	-	ND	0.809	-	-	ND	0.809	-	-	ND	0.809	-	-	ND	0.809	-	-
Methyl tert butyl ether	1634-04-4	ND	0.721	-	-	ND	0.721	-	-	ND	0.721	-	-	ND	0.721	-	-	ND	0.721	-	-	ND	0.721	-	-
2-Butanone	78-93-3	2.63	1.47	-	-	2.21	1.47	-	-	2.13	1.47	-	-	2.58	1.47	-	-	ND	1.47	-	-	5.37	1.47	-	-
cis-1,2-Dichloroethene	156-59-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethyl Acetate	141-78-6	ND	1.8	-	-	ND	1.8	-	-	ND	1.8	-	-	1.89	1.8	-	-	ND	1.8	-	-	ND	1.8	-	-
Chloroform	67-66-3	ND	0.977	-	-	ND	0.977	-	-	ND	0.977	-	-	ND	0.977	-	-	ND	0.977	-	-	ND	0.977	-	-
Tetrahydrofuran	109-99-9	2.16	1.47	-	-	ND	1.47	-	-	ND	1.47	-	-	ND	1.47	-	-	ND	1.47	-	-	ND	1.47	-	-
1,2-Dichloroethane	107-06-2	ND	0.809	-	-	ND	0.809	-	-	ND	0.809	-	-	ND	0.809	-	-	ND	0.809	-	-	ND	0.809	-	-
n-Hexane	110-54-3	1.66	0.705	-	-	1.41	0.705	-	-	1.8	0.705	-	-	2.04	0.705	-	-	ND	0.705	-	-	ND	0.705	-	-
1,1,1-Trichloroethane	71-55-6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzene	71-43-2	ND	0.639	-	-	ND	0.639	-	-	ND	0.639	-	-	ND	0.639	-	-	ND	0.639	-	-	1.08	0.639	-	-
Carbon tetrachloride	56-23-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyclohexane	110-82-7	ND	0.688	-	-	ND	0.688	-	-	ND	0.688	-	-	ND	0.688	-	-	ND	0.688	-	-	ND	0.688	-	-
1,2-Dichloropropane	78-87-5	ND	0.924	-	-	ND	0.924	-	-	ND	0.924	-	-	ND	0.924	-	-	ND	0.924	-	-	ND	0.924	-	-
Bromodichloromethane	75-27-4	ND	1.34	-	-	ND	1.34	-	-	ND	1.34	-	-	ND	1.34	-	-	ND	1.34	-	-	ND	1.34	-	-
1,4-Dioxane	123-91-1	ND	0.721	-	-	ND	0.721	-	-	ND	0.721	-	-	ND	0.721	-	-	ND	0.721	-	-	ND	0.721	-	-
Trichloroethene	79-01-6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,2,4-Trimethylpentane	540-84-1	ND	0.934	-	-	ND	0.934	-	-	ND	0.934	-	-	ND	0.934	-	-	ND	0.934	-	-	ND	0.934	-	-
Heptane	142-82-5	ND	0.82	-	-	ND	0.82	-	-	ND	0.82	-	-	1.48	0.82	-	-	ND	0.82	-	-	ND	0.82	-	-
cis-1,3-Dichloropropene	10061-01-5	ND	0.908	-	-	ND	0.908	-	-	ND	0.908	-	-	ND	0.908	-	-	ND	0.908	-	-	ND	0.908	-	-
4-Methyl-2-pentanone	108-10-1	ND	2.05	-	-	ND	2.05	-	-	ND	2.05	-	-	4.71	2.05	-	-	ND	2.05	-	-	2.14	2.05	-	-
trans-1,3-Dichloropropene	10061-02-6	ND	0.908	-	-	ND	0.908	-	-	ND	0.908	-	-	ND	0.908	-	-	ND	0.908	-	-	ND	0.908	-	-
1,1,2-Trichloroethane	79-00-5	ND	1.09	-	-	ND	1.09	-	-	ND	1.09	-	-	ND	1.09	-	-	ND	1.09	-	-	ND	1.09	-	-
Toluene	108-88-3	2.61	0.754	-	-	1.94	0.754	-	-	2.5	0.754	-	-	3.76	0.754	-	-	ND	0.754	-	-	ND	0.754	-	-
2-Hexanone	591-78-6	ND	0.82	-	-	ND	0.82	-	-	ND	0.82	-	-	ND	0.82	-	-	ND	0.82	-	-	ND	0.82	-	-
Dibromochloromethane	124-48-1	ND	1.7	-	-	ND	1.7	-	-	ND	1.7	-	-	ND	1.7	-	-	ND	1.7	-	-	ND	1.7	-	-
1,2-Dibromoethane	106-93-4	ND	1.54	-	-	ND	1.54	-	-	ND	1.54	-	-	ND	1.54	-	-	ND	1.54	-	-	ND	1.54	-	-
Tetrachloroethene	127-18-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene	108-90-7	ND	0.921	-	-	ND	0.921	-	-	ND	0.921	-	-	ND	0.921	-	-	ND	0.921	-	-	ND	0.921	-	-
Ethylbenzene	100-41-4	2.66	0.869	-	-	ND	0.869	-	-	ND	0.869	-	-	2.21	0.869	-	-	ND	0.869	-	-	ND	0.869	-	-
p/m-Xylene	179601-23-1	6.82	1.74	-	-	1.97	1.74	-	-	ND	1.74	-	-	8.77	1.74	-	-	ND	1.74	-	-	ND	1.74	-	-
Bromoform	75-25-2	ND	2.07	-	-	ND	2.07	-	-	ND	2.07	-	-	ND	2.07	-	-	ND	2.07	-	-	ND	2.07	-	-
Styrene	100-42-5	ND	0.852	-	-	ND	0.852	-	-	ND	0.852	-	-	ND	0.852	-	-	ND	0.852	-	-	ND	0.852	-	-
1,1,2,2-Tetrachloroethane	79-34-5	ND	1.37	-	-	ND	1.37	-	-	ND	1.37	-	-	ND	1.37	-	-	ND	1.37	-	-	ND	1.37	-	-
o-Xylene	95-47-6	3.62	0.869	-	-	ND	0.869	-	-	ND	0.869	-	-	3.14	0.869	-	-	ND	0.869	-	-	ND	0.869	-	-
4-Ethyltoluene	622-96-8	ND	0.983	-	-	ND	0.983	-	-	ND	0.983	-	-	ND	0.983	-	-	ND	0.983	-	-	ND	0.983	-	-
1,3,5-Trimethylbenzene	108-67-8	ND	0.983	-	-	ND	0.983	-	-	ND	0.983	-	-	ND	0.983	-	-	ND	0.983	-	-	ND	0.983	-	-
1,2,4-Trimethylbenzene	95-63-6	1.46	0.983	-	-	ND	0.983	-	-	ND	0.983	-	-	ND	0.983	-	-	ND	0.983	-	-	ND	0.983	-	-
Benzyl chloride	100-44-7	ND	1.04	-	-	ND	1.04	-	-	ND	1.04	-	-	ND	1.04	-	-	ND	1.04	-	-	ND	1.04	-	-
1,3-Dichlorobenzene	541-73-1	ND	1.2	-	-	ND	1.2	-	-	ND	1.2	-	-	ND	1.2	-	-	ND	1.2	-	-	ND	1.2	-	-
1,4-Dichlorobenzene	106-46-7	ND	1.2	-	-	ND	1.2	-	-	ND	1.2	-	-	ND	1.2	-	-	ND	1.2	-	-	ND	1.2	-	-
1,2-Dichlorobenzene	95-50-1	ND	1.2	-	-	ND	1.2	-	-	ND	1.2	-	-	ND	1.2	-	-	ND	1.2	-	-	ND	1.2	-</	

TABLE 2
VAPOR ANALYTICAL RESULTS SUMMARY
VOCs
125 STATE STREET, WESTBURY, NEW YORK
APRIL 2023

SAMPLE ID:		SSV01			SSV02			SSV03			SSV04		
LAB ID:		L2312494-01			L2312494-02			L2312494-03			L2316923-01		
COLLECTION DATE:		3/8/2023			3/8/2023			3/8/2023			3/30/2023		
SAMPLE MATRIX:		SOIL VAPOR			SOIL VAPOR			SOIL VAPOR			SOIL VAPOR		
ANALYTE	CAS	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS IN AIR (ug/m3)													
Dichlorodifluoromethane	75-71-8	15.3	0.989	-	-	12.3	0.989	-	-	23.5	2.75	-	99.9
Chloromethane	74-87-3	ND	0.413	-	-	0.491	0.413	-	-	ND	1.15	-	ND
Freon-114	76-14-2	ND	1.4	-	-	ND	1.4	-	-	ND	3.89	-	ND
Vinyl chloride	75-01-4	ND	0.511	-	-	ND	0.511	-	-	ND	1.42	-	ND
1,3-Butadiene	106-99-0	ND	0.442	-	-	0.734	0.442	-	-	ND	1.23	-	ND
Bromomethane	74-83-9	ND	0.777	-	-	ND	0.777	-	-	ND	2.16	-	ND
Chloroethane	75-00-3	ND	0.528	-	-	ND	0.528	-	-	ND	1.47	-	ND
Ethanol	64-17-5	ND	9.42	-	-	13.5	9.42	-	-	332	26.2	-	927
Vinyl bromide	593-60-2	ND	0.874	-	-	ND	0.874	-	-	ND	2.43	-	ND
Acetone	67-64-1	10.5	2.38	-	-	40.1	2.38	-	-	110	6.6	-	123
Trichlorofluoromethane	75-69-4	1.8	1.12	-	-	1.88	1.12	-	-	ND	3.12	-	ND
Isopropanol	67-63-0	ND	1.23	-	-	ND	1.23	-	-	15.3	3.42	-	3.59
1,1-Dichloroethene	75-35-4	ND	0.793	-	-	ND	0.793	-	-	ND	2.2	-	ND
Tertiary butyl Alcohol	75-65-0	5.43	1.52	-	-	5.79	1.52	-	-	6.76	4.21	-	979
Methylene chloride	75-09-2	ND	1.74	-	-	10.6	1.74	-	-	ND	4.83	-	ND
3-Chloropropene	107-05-1	ND	0.626	-	-	ND	0.626	-	-	ND	1.74	-	ND
Carbon disulfide	75-15-0	3.36	0.623	-	-	ND	0.623	-	-	ND	1.73	-	ND
Freon-113	76-13-1	ND	1.53	-	-	ND	1.53	-	-	ND	4.26	-	ND
trans-1,2-Dichloroethene	156-60-5	ND	0.793	-	-	ND	0.793	-	-	ND	2.2	-	ND
1,1-Dichloroethane	75-34-3	10.2	0.809	-	-	6.6	0.809	-	-	4.82	2.25	-	2.89
Methyl tert butyl ether	1634-04-4	ND	0.721	-	-	ND	0.721	-	-	ND	2	-	ND
2-Butanone	78-93-3	ND	1.47	-	-	2.66	1.47	-	-	ND	4.1	-	8.82
cis-1,2-Dichloroethene	156-59-2	ND	0.793	-	-	ND	0.793	-	-	ND	2.2	-	ND
Ethyl Acetate	141-78-6	ND	1.8	-	-	ND	1.8	-	-	ND	5.01	-	ND
Chloroform	67-66-3	ND	0.977	-	-	ND	0.977	-	-	ND	2.72	-	ND
Tetrahydrofuran	109-99-9	ND	1.47	-	-	ND	1.47	-	-	ND	4.1	-	ND
1,2-Dichloroethane	107-06-2	ND	0.809	-	-	ND	0.809	-	-	ND	2.25	-	ND
n-Hexane	110-54-3	ND	0.705	-	-	ND	0.705	-	-	ND	1.96	-	2
1,1,1-Trichloroethane	71-55-6	278	1.09	-	-	123	1.09	-	-	205	3.03	-	152
Benzene	71-43-2	ND	0.639	-	-	ND	0.639	-	-	ND	1.78	-	2.19
Carbon tetrachloride	56-23-5	ND	1.26	-	-	ND	1.26	-	-	ND	3.5	-	ND
Cyclohexane	110-82-7	0.874	0.688	-	-	ND	0.688	-	-	ND	1.91	-	ND
1,2-Dichloropropane	78-87-5	ND	0.924	-	-	ND	0.924	-	-	ND	2.57	-	ND
Bromodichloromethane	75-27-4	ND	1.34	-	-	ND	1.34	-	-	ND	3.72	-	ND
1,4-Dioxane	123-91-1	ND	0.721	-	-	ND	0.721	-	-	ND	2	-	ND
Trichloroethene	79-01-6	ND	1.07	-	-	1.35	1.07	-	-	6.13	2.99	-	8.17
2,2,4-Trimethylpentane	540-84-1	ND	0.934	-	-	ND	0.934	-	-	ND	2.6	-	47.6
Heptane	142-82-5	ND	0.82	-	-	1.11	0.82	-	-	ND	2.28	-	ND
cis-1,3-Dichloropropene	10061-01-5	ND	0.908	-	-	ND	0.908	-	-	ND	2.52	-	ND
2-Methyl-2-pentanol	108-10-1	ND	2.05	-	-	ND	2.05	-	-	ND	5.7	-	ND
trans-1,3-Dichloropropene	10061-02-6	ND	0.908	-	-	ND	0.908	-	-	ND	2.52	-	ND
1,1,2-Trichloroethane	79-00-5	ND	1.09	-	-	ND	1.09	-	-	ND	3.03	-	ND
Toluene	108-88-3	ND	0.754	-	-	0.878	0.754	-	-	ND	2.1	-	ND
2-Hexanone	591-78-6	6.6	0.82	-	-	2.15	0.82	-	-	2.41	2.28	-	13
Dibromochloromethane	124-48-1	ND	1.7	-	-	ND	1.7	-	-	ND	4.74	-	ND
1,2-Dibromoethane	106-93-4	ND	1.54	-	-	ND	1.54	-	-	ND	4.27	-	ND
Tetrachloroethene	127-18-4	285	1.36	-	-	283	1.36	-	-	787	3.77	-	496
Chlorobenzene	108-90-7	ND	0.921	-	-	ND	0.921	-	-	ND	2.56	-	ND
Ethylbenzene	100-41-4	ND	0.869	-	-	ND	0.869	-	-	ND	2.42	-	ND
p,m-Xylene	179601-23-1	ND	1.74	-	-	ND	1.74	-	-	ND	4.82	-	ND
Bromoform	75-25-2	ND	2.07	-	-	ND	2.07	-	-	ND	5.75	-	ND
Styrene	100-42-5	ND	0.852	-	-	ND	0.852	-	-	ND	2.37	-	ND
1,1,2,2-Tetrachloroethane	79-34-5	ND	1.37	-	-	ND	1.37	-	-	ND	3.82	-	ND
o-Xylene	95-47-6	ND	0.869	-	-	ND	0.869	-	-	ND	2.42	-	ND
4-Ethyltoluene	622-96-8	ND	0.983	-	-	ND	0.983	-	-	ND	2.73	-	ND
1,3,5-Trimethylbenzene	108-67-8	ND	0.983	-	-	ND	0.983	-	-	ND	2.73	-	ND
1,2,4-Trimethylbenzene	95-63-6	ND	0.983	-	-	ND	0.983	-	-	ND	2.73	-	ND
Benzyl chloride	100-44-7	ND	1.04	-	-	ND	1.04	-	-	ND	2.88	-	ND
1,3-Dichlorobenzene	541-73-1	ND	1.2	-	-	ND	1.2	-	-	ND	3.34	-	ND
1,4-Dichlorobenzene	106-46-7	ND	1.2	-	-	ND	1.2	-	-	ND	3.34	-	ND
1,2-Dichlorobenzene	95-50-1	ND	1.2	-	-	ND	1.2	-	-	ND	3.34	-	ND
1,2,4-Trichlorobenzene	120-82-1	ND	1.48	-	-	ND	1.48	-	-	ND	4.13	-	ND
Hexachlorobutadiene	87-68-3	ND	2.13	-	-	ND	2.13	-	-	ND	5.93	-	ND
VOLATILE ORGANICS IN AIR BY SIM (ug/m3)													
Vinyl chloride	75-01-4	-	-	-	-	-	-	-	-	-	-	-	ND
1,1-Dichloroethene	75-35-4	-	-	-	-	-	-	-	-	-	-	-	ND
cis-1,2-Dichloroethene	156-59-2	-	-	-	-	-	-	-	-	-	-	-	ND
1,1,1-Trichloroethane	71-55-6	-	-	-	-	-	-	-	-	-	-	-	ND
Carbon tetrachloride	56-23-5	-	-	-	-	-	-	-	-	-	-	-	0.37
Trichloroethene	79-01-6	-	-	-	-	-	-	-	-	-	-	-	7.47
Tetrachloroethene	127-18-4	-	-	-	-	-	-	-	-	-	-	-	455



APPENDIX A

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau A

625 Broadway, 12th Floor, Albany, NY 12233-7015

P: (518) 402-9625 | F: (518) 402-9722

www.dec.ny.gov

February 24, 2023

Mr. Anthony Martinelli, Chief Executive Officer/President
1st State LLC
c/o Tomco Mechanical Corporation
125 State Street
Westbury, NY 11590

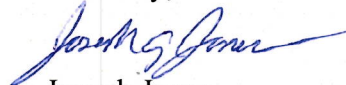
**Re: Soil Vapor Intrusion Investigation Work Plan
125 State Street
Site # 130043C
Westbury, Nassau County**

Dear Mr. Martinelli:

The New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH) have received and reviewed the revised January 2023 Soil Vapor Intrusion (SVI) Investigation Work Plan for the 125 State Street Site located in Westbury, Nassau County (SVIWP). The SVIWP is approved.

Please inform the NYSDEC at least seven (7) days before beginning field work. If you have any questions, please contact me at this e-mail address or by telephone at 518-402-9613.

Sincerely,



Joseph Jones
Project Manager
Remedial Bureau A

ec: A. Martinelli
Francesca Martinelli
Frank Castellano
R. Mustico
B. Corcoran
J. Nealon
C. Bethoney
B. Corcoran
A. Tamuno
D. Murphy



Department of
Environmental
Conservation



APPENDIX B

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau A
625 Broadway, 12th Floor, Albany, NY 12233-7015
P: (518) 402-9625 | F: (518) 402-9627
www.dec.ny.gov

November 17, 2021

Mr. Anthony Martinelli, Chief Executive Officer/President
1st State LLC
c/o Tomco Mechanical Corporation
125 State Street
Westbury, NY 11590

Re: Soil Vapor Intrusion Investigation for Tishcon Corp. Site Located at 125 State Street
Site No.: 130043C
North Hempstead, Nassau County

Dear Mr. Martinelli:

As you may be aware, the New York State Department of Environmental Conservation (NYSDEC) in consultation with the New York State Department of Health (NYSDOH) (collectively referred to as the "Agencies") has developed a strategy for evaluating the potential for vapor intrusion at past, current and future inactive hazardous waste disposal sites in the State of New York, available at <http://www.health.state.ny.us/nysdoh/gas/sve-guidance/index.htm>.

This strategy describes the process by which the Agencies prioritize remedial sites for further Soil Vapor Intrusion (SVI) evaluations. One element of the strategy involves evaluation of the SVI pathway at sites where NYSDEC in consultation with NYSDOH previously selected a remedy to address site-related hazardous waste contamination.

On information and belief, 1st State LLC is the current owner of the Tishcon Corp site located at 125 State Street, Westbury, New York, and identified on the Nassau County Tax Map as: Section 11, Block 84, Lot 181 (the "Site"). Tomco Mechanical Corporation, on information and belief, is the operator of a portion of the Site. On further information and belief, Tony Martinelli is the Chief Executive Officer of 1st State LLC.

In 2005, the Site was designated as an SVI Legacy site requiring evaluation of the soil vapor intrusion pathway for the building situated on the Site (the "Site building"). On February 15 and 16, 2010, a consultant representing the NYSDEC collected three (3) soil vapor samples from beneath the Site building, three (3) indoor air samples from within the Site building, and one (1) ambient air sample outside the Site building. The purpose of the sampling was to assess the potential for Site-related contamination to enter the Site building and affect the indoor air quality through SVI.



Department of
Environmental
Conservation

Tetrachloroethene (PCE) and 1,1,1 trichloroethane (1,1,1 TCA), each considered Site-related contamination, were reported in the analytical results. PCE and 1,1,1 TCA were detected (maximum of 9,800 ug/m³ and 3,300 ug/m³, respectively) in soil vapor beneath the southwest corner of the Site building. These results were conveyed to you in a letter dated June 10, 2011 (attached) from NYSDOH.

The State has developed "Guidance for Evaluating SVI in the State of New York", which provides detailed information about SVI. The guidance document is available for viewing or may be downloaded at the NYSDOH website at https://www.health.ny.gov/environmental/investigations/soil_gas/svi_guidance. The levels of PCE and 1,1,1 TCA in soil vapor beneath the building require mitigation by the criteria established therein.

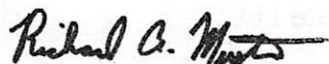
The Agencies are requesting that 1st State, LLC re-evaluate the SVI at the Site building. Should 1st St State LLC elect to perform the re-evaluation, the Agencies will work with 1st State LLC to determine how to proceed with the re-evaluation. Should 1st State LLC elect not to participate in the vapor intrusion re-evaluation at the site, the Agencies will proceed with the evaluation and will subsequently seek to recover the costs incurred as part of the re-evaluation as appropriate in accordance with applicable federal and/or state law.

NYSDEC requests a response in writing from Mr. Anthony Martinelli, 1st Street State, LLC, by December 20, 2021 whether the 1st State, LLC is prepared to undertake the SVI evaluation for the Site building specified above. The NYSDEC will consider a failure to respond by December 20, 2021 to be a negative response. Your response should be sent to the above-specified address to the attention of Mr. Joseph Jones.

Mr. Joseph Jones may be reached by phone at (518)-402-9621 or by email at joseph.jones@dec.ny.gov to answer any questions you may have regarding this letter.

Nothing contained herein constitutes a waiver by the NYSDEC of any rights under applicable state and federal law, including recovery of its costs, nor does it constitute a release of any party from obligations under those same laws.

Sincerely,



Richard A. Mustico, P.E.
Director, Remedial Bureau A
Division of Environmental Remediation

Attachment: June 10, 2011 letter

ec: C. Bethoney, NYSDOH
J. Nealon, NYSDOH
R. Corcoran
A. Tamuno
J. Jones

NEW YORK
state department of
HEALTH

Nirav R. Shah, M.D., M.P.H.
Commissioner

Sue Kelly
Executive Deputy Commissioner

June 10, 2011

Mr. Anthony Martinelli
125 State Street
Westbury, NY 11590

Re: Air Sampling Results
New Cassel Industrial Area
Former Tishcon – 125 State St.
Site No. #130043C
Westbury (T), Nassau County

Dear Mr. Martinelli:

As we discussed during our June 1st telephone conversation, the environmental consultant representing New York State Department of Environmental Conservation (NYSDEC) collected air samples from beneath, within, and outside your business to assess the potential for chlorinated solvents from contaminated soil and/or groundwater to enter your building and affect the indoor air quality through a process called vapor intrusion (see enclosed fact sheet). The samples were collected as part of an on-going environmental investigation for the presence of chlorinated solvents, such as tetrachloroethene (PCE), trichloroethene (TCE) and 1,1,1-trichloroethane (1,1,1-TCA) which have been associated with the New Cassel Industrial Area (NCIA) site located in Westbury, Nassau County. I have summarized your results in Figure 1 and have also enclosed the complete laboratory results for the samples collected at your business.

Based on my review of the data, no immediate actions are needed to address site-related contaminants in the indoor air of your building due to soil vapor intrusion. PCE and 1,1,1-TCA were detected in your indoor air at a level of 2.0 and 1.0 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$), respectively. These detected levels are below the New York State Department of Health's air guideline of 100 $\mu\text{g}/\text{m}^3$ for PCE and 1,1,1-TCA, are consistent with levels commonly found in homes or businesses, and do not represent a health concern. Site-related contaminant TCE was also detected in your indoor air at 0.55 $\mu\text{g}/\text{m}^3$, which is below the New York State Department of Health's air guideline of 5 $\mu\text{g}/\text{m}^3$ for TCE. The PCE and the 1,1,1-TCA detected (9,800 $\mu\text{g}/\text{m}^3$ and 3,300 $\mu\text{g}/\text{m}^3$ respectively) in the vapor beneath your building, however, have the ability to affect indoor air quality by being drawn into your building. Actions are recommended to mitigate the potential for exposures related to soil vapor intrusion in your building.

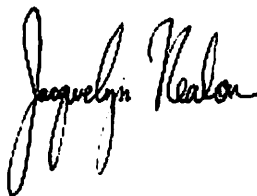
As expected, other volatile organic compounds (VOCs) were detected in the indoor air of your building because chemicals are part of our everyday lives. VOCs are present in the products we store and use in our homes or businesses and in the outdoor air that enters our businesses (see enclosed fact sheet; Volatile Organic Compounds in Commonly Used Products). The concentrations of the VOCs detected in the indoor air of your business are generally consistent with those usually found in homes or businesses and the outdoor air collected on the day of sampling, and do not represent a health concern. However, actions should be taken to reduce levels of these chemicals that are above typical concentrations. In general, to reduce exposures to chemicals in household or business-related products, I

recommend that you ensure containers are tightly closed and, if possible, store solvents and similar products in areas where individuals spend little time, such as a detached outdoor shed or a properly ventilated warehouse. When handling these products, make sure the area is properly ventilated.

Under Article 27 (Title 24, Section 27-2405) of the Environmental Conservation Law, the building tenant must be notified of the results of soil vapor intrusion investigation. I have enclosed a copy of the NYSDOH Tenant Notification Fact Sheet for Tetrachloroethene (Perc) and for 1,1,1-trichloroethane (1,1,1-TCA) for your use. The enclosed informational fact sheets may help to explain this information to your tenants.

During our June 1st telephone conversation, you informed me that you had recently added a system to bring fresh air into your building. Based on this recent information, the Agencies would like to discuss with you re-evaluating the indoor air in your building in light of the recent changes. I will call you at your convenience to discuss this request. If you have additional questions concerning the data, or if you have any site-related health questions, please contact me at (518) 402-7880. Thank you for taking the time to speak with me about these issues and allowing the State access to your building to evaluate the potential for exposure, we appreciate your assistance in our investigation of the NCIA site.

Sincerely,



Jacquelyn Nealon
Public Health Specialist III
Bureau of Environmental Exposure Investigation

Enclosure

A Data Summary table of the validated sample results for each sample collected at your business.

What is Exposure? an information sheet describing how a person may come into contact with chemicals in the environment.

Soil Vapor Intrusion Frequently asked Questions - an information sheet describing process referred to as "soil vapor intrusion".

NYSDOH Tenant Notification Fact Sheet for PCE - providing information on PCE and the NYSDOH's guideline for PCE in air.

NYSDOH Tenant Notification Fact Sheet for 1,1,1-TCA - providing information on 1,1,1-TCA and the NYSDOH's guideline for 1,1,1-TCA in air.

Volatile Organic Compounds (VOCs) in Commonly Used Products - an information sheet describing what VOCs may be present in your indoor air and steps you can take to reduce them.

cc: S. Bates/K. Anders/C. Bethoney/File
J. Harrington/G. Bobersky/J. Jones – DEC Albany
A. Tamuno – DEE White Plains
D. Irwin/J. DeFranco - NCHD
W. Parish – DEC Reg. 1
B. Devine - MARO



APPENDIX C

AMBIENT AIR SAMPLING LOGS

Date: 3/7/23									
Location: T0MC2201									
Sample ID	Date	Location	Canister ID	Flow ID	Start (hg)	End (hg)	Start Time	End Time	PID (ppm)
IAQ01	3/7/23- 3/8/23	Forever Iron Doors	2381	0984	-30	-8	1332	1145	0.1
IAQ02		West Warehouse	3953	02257	-30	-7	1336	1206	0.1
IAQ03		East Warehouse	3151	02276	-30	-9	1341	1302	0.0
IAQ03 (dup)		East Warehouse	1789	01490	> -30	-8	1344	1259	0.0
IAQ04		Kitchen Closet	625	0246	-30	-11	1348	1326	0.4
IAQ01	↓	South Side of Building	2002	01407	-30	0.70	1334	1050	0.0

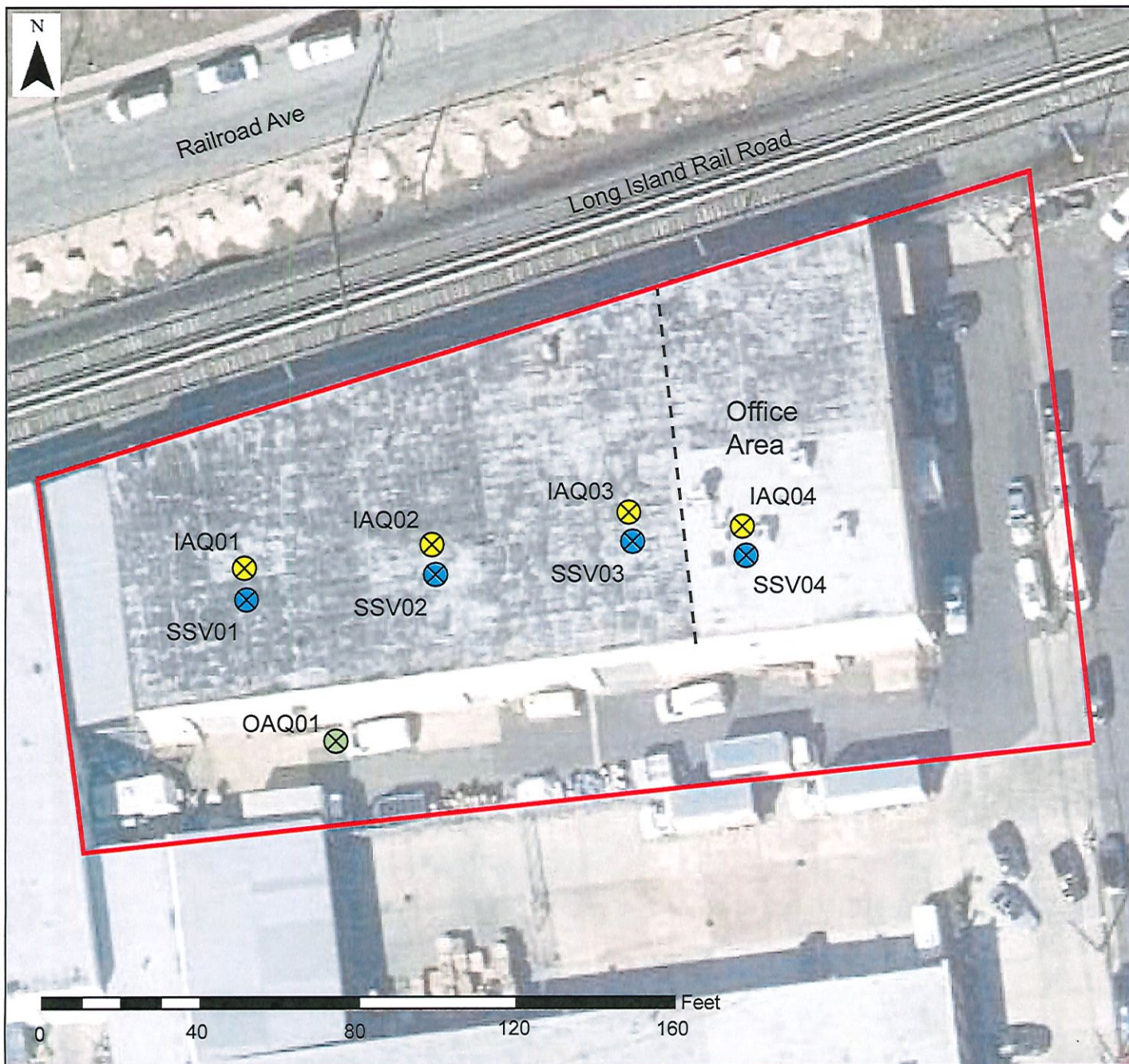
* IAQ01 - Gauge reading 0.70" prior to closing Can. Temp. fluctuations may have affected and may not be indicative of actual Canister Pressure.

VAPOR SAMPLING LOGS

Date: 3/7/23									
Location: T0MC2201									
Sample ID	Date	Location	Canister ID	Flow ID	Start (hg)	End (hg)	Start Time	End Time	PID (ppm)
SSV01	3/7/23 - 3/8/23	Forever II Gen Doors	3574	0279	-30	-8	1332	1146	0.8
SSV02		West warehouse	770	02271	-28	-9	1338	1212	2.2
SSV03		East warehouse	2560	02184	-28	-10	1343	1308	0.4
SSV04	↓	Kitchen closet	1618	02201	-30	-30	1348	1325	1.0

* SSV02 - prior to opening ~~canister~~ ^{Canister}, gauge ~~reading~~ ^{reading} -23.12"

SSV04 - Digital gauge reading -30" after 23 hours after deployment.
When canister closed, gauge continued reading -30".



P: 631-482-1818

F: 631-321-4349

E: info@castletonenv.com

www.castletonenv.com

- Indoor Air Sample
- Sub-Slab Vapor Sample
- Outdoor Air Sample
- Site Boundary

PREPARED FOR:

1st State LLC

125 State Street,

Westbury, NY

PROJECT: TOMC2201

DATE: 1/17/2023

SCALE: AS SHOWN

DRAWN BY: JZ

APPROVED BY: DM

Proposed Sample Locations

125 State Street,
Westbury, NY

FIGURE:

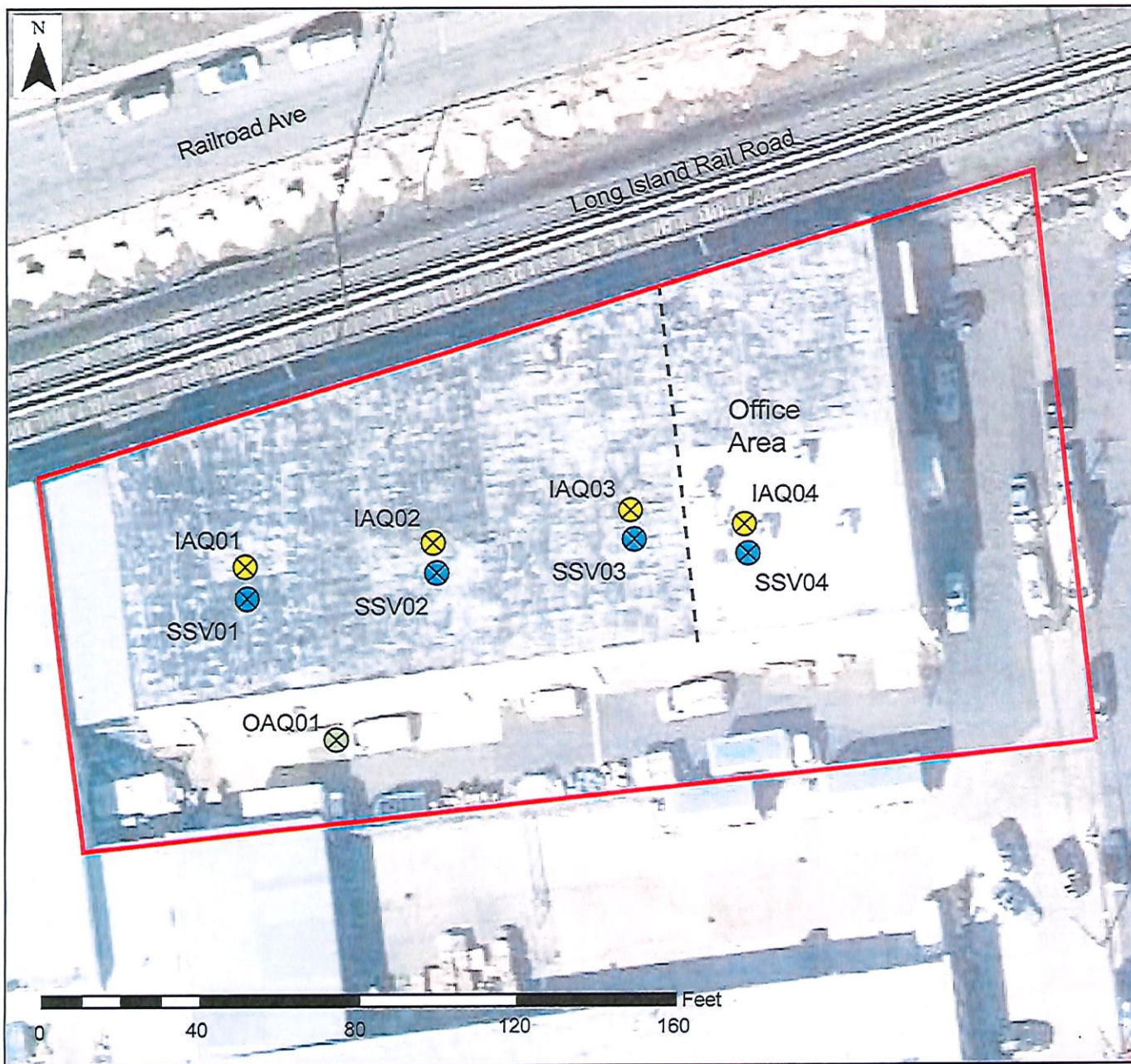
3

AMBIENT AIR SAMPLING LOGS

Date: 3/29/2023

Location: TCM C2201, 125 State St, Westbury, New York

[illegible]



CASTLETON
ENVIRONMENTAL

P: 631-482-1818

F: 631-321-4349

E: info@castletonenv.com

www.castletonenv.com

- Yellow circle: Indoor Air Sample
- Blue circle: Sub-Slab Vapor Sample
- White circle with cross: Outdoor Air Sample
- Red line: Site Boundary

PREPARED FOR:
1st State LLC
125 State Street,
Westbury, NY

PROJECT: TOMC2201
DATE: 1/17/2023
SCALE: AS SHOWN
DRAWN BY: JZ
APPROVED BY: DM

Proposed Sample Locations

125 State Street,
Westbury, NY

FIGURE:

3



APPENDIX D

Site No. : 130043C Site Name : 125 State StreetDate: 3/2/2023 Time: _____Structure Address : 125 State Street, Westbury, NY 11590Preparer's Name & Affiliation : Daren Murphy - Castleton EnvironmentalResidential ? ☐ Yes ☒ No Owner Occupied ? ☒ Yes ☐ No Owner Interviewed ? ☒ Yes ☐ NoCommercial ? ☐ Yes ☒ No Industrial ? ☒ Yes ☐ No Mixed Uses ? ☐ Yes ☒ NoIdentify all non-residential use(s) : Office, manufacturing, warehouseOwner Name : 1st State LLC Owner Phone : (516) 546 - 5700

Secondary Owner Phone : () _____ - _____

Owner Address (if different) : _____

Occupant Name : Tomco Mechanical Corporation Occupant Phone : (516) 546 - 5700Forever Iron Doors Secondary Occupant Phone : (631) 312 - 5566Number & Age of All Persons Residing at this Location : 0

Additional Owner/Occupant Information : _____

Describe Structure (style, number floors, size) : One-story slab-on-grade masonry warehouse building with mezzanine occupying approximately 17,000 square feetApproximate Year Built : 1967Is the building Insulated? ☒ Yes ☒ No
Office space Manufacturing/warehouse spaceLowest level : ☒ Slab-on-grade ☐ Basement ☐ CrawlspaceDescribe Lowest Level (finishing, use, time spent in space) : The east portion consists of finished office space.

The central and west portions consist of unfinished manufacturing and warehouse space. Time spent is 8-10 hours per day.

Floor Type: ☒ Concrete Slab ☐ Dirt ☐ Mixed : _____Floor Condition : ☐ Good (few or no cracks) ☒ Average (some cracks) ☐ Poor (broken concrete or dirt)Sumps/Drains? ☒ Yes ☐ No Describe : Three (3) small floor drains observed in west portionIdentify other floor penetrations & details : None observedWall Construction : ☒ Concrete Block ☐ Poured Concrete ☐ Laid-Up StoneIdentify any wall penetrations : Doorways, garage doors, fans, ventsIdentify water, moisture, or seepage: location & severity (sump, cracks, stains, etc) : None observedHeating Fuel : ☐ Oil ☒ Gas ☐ Wood ☐ Electric ☐ Other : _____Heating System : ☒ Forced Air ☐ Hot Water ☐ Other : HVAC, roof mountedHot Water System : ☐ Combustion ☐ Electric ☐ Boilermate ☒ Other: GasClothes Dryer : ☐ Electric ☐ Gas Where is dryer vented to? N/A

If combustion occurs, describe where air is drawn from (cold air return, basement, external air, etc.) : _____

Fans & Vents (identify where fans/vents pull air from and where they vent/exhaust to) : _____

Fans/vents pull air from warehouse space and exhaust to exterior of building

Describe factors that may affect indoor air quality (chemical use/storage, unvented heaters, smoking, workshop):

Chemical use/storage, i.e., Duro Dyne Degreaser, Duro Dyne Stripper, WD-40 within Tomco manufacturing space

Attached garage ? ☐ Yes ☒ No Air fresheners ? ☐ Yes ☐ No

New carpet or furniture ? ☐ Yes ☒ No What/Where ? _____

Recent painting or staining ? ☐ Yes ☒ No Where ? : _____

Any solvent or chemical-like odors ? ☐ Yes ☒ No Describe : _____

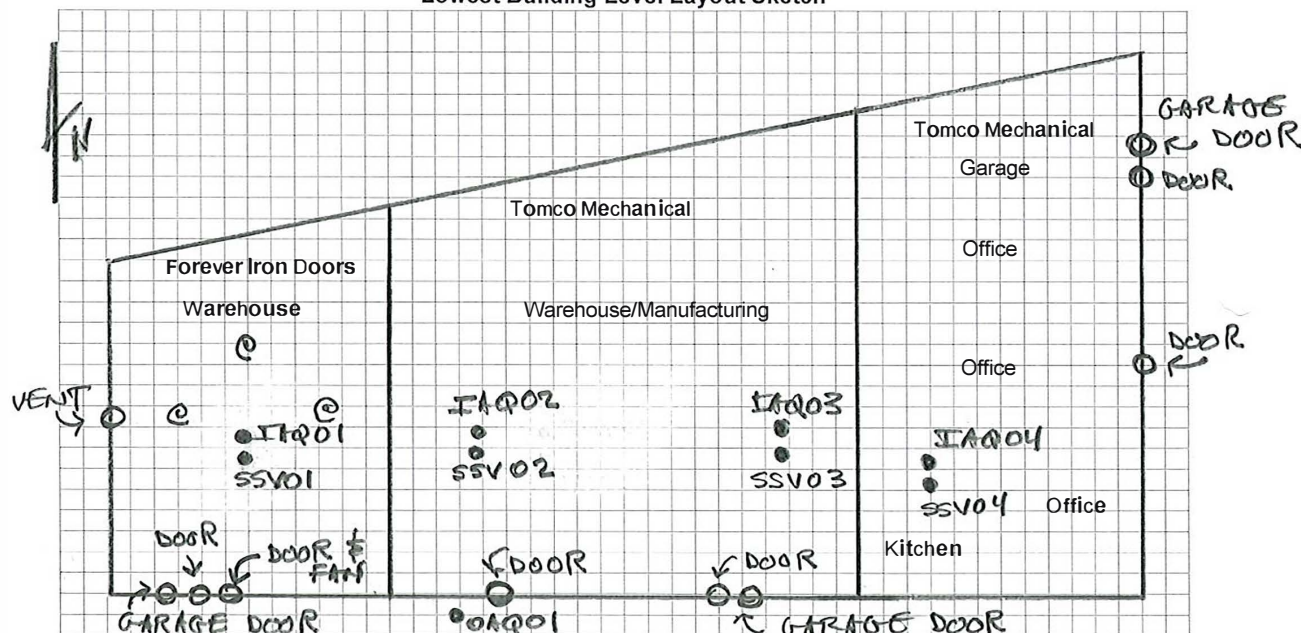
Last time Dry Cleaned fabrics brought in ? _____ What / Where ? _____

Do any building occupants use solvents at work ? ☐ Yes ☒ No Describe : _____

Any testing for Radon ? ☐ Yes ☒ No Results : _____

Radon System/Soil Vapor Intrusion Mitigation System present ? ☐ Yes ☒ No If yes, describe below

Lowest Building Level Layout Sketch



- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sketch.
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or F	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	xxxxxxx	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	#####	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab vapor samples
WD	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

Product Inventory
Tomco Mechanical
125 State Street, Westbury, New York

Tomco Mechanical			
Location	Product Name/Description	Quantity	
		# of Bottles	Size
Warehouse	Rust-oleum paint, primer	>20	11-oz
Warehouse	DP1010 water based duct sealant	>100	10.3-oz
Warehouse	Pro-Stick Heavy-duty adhesive spray	>15	12-oz
Warehouse	Elgen A-410-WB Adhesive for duct liner	1	5-gal
Warehouse	ZEP Hard Floor Sweeping Compounds	1	
Warehouse	WB55 Water Based liner adhesive	5	5-gal
Warehouse	Exxon Hydraulic Oil	4	5-gal
Warehouse	WD-40	>5	12-oz
Warehouse	DP2502 Water based duct liner adhesive	1	5-gal
Warehouse	Lifetime 100% silicone sealant	3	10.1-oz
Warehouse	Pure Power Glass Cleaner	1	32-oz
Warehouse	Duro Dyne Degreaser	>5	15-oz
Warehouse	Duro Dyne Stripper	>8	15-oz
Warehouse	DP1010 water based duct sealant	>10	5-gal
Warehouse	Behr Premium Paint	>2	1-gal
Warehouse	NEFCO	1	5-gal
Warehouse	Behr Premium Direct to Metal Paint	5	1-gal
Warehouse	Airseal 22 water based duct sealant	>24	1-gal
Warehouse	Krylon Industrial marking paint	2	12-oz
Warehouse	Evap Pow'r-C evaporator coil cleaner	1	1-gal
Warehouse	Vacuum Pump Oil	2	1-qt
Warehouse	Prestone Windshield Washer Fluid Bug Wash	1	1-gal
Warehouse	Elgen Duct Butter repair insulation	1	14-oz
Warehouse	Blaster Multi-purpose Grease	1	14-oz
Warehouse	CRC synthetic food grade grease	1	14-oz
Warehouse	Ductmate Pro Seal Duct Sealant	1	1-gal
Warehouse	Black gold vacuum pump oil	>2	1-gal
Warehouse	Autozone Dex/Merc Auto Transmission Fluid	1	1-qt
Warehouse	Mopar Antifreeze/coolant	1	1-gal
Warehouse	Bitzer refrigeration compressor oil	>10	1-gal
Warehouse	GE Advanced Silicone sealant	2	10.1-oz
Warehouse	Gorilla Spray Adhesive Heavy Duty	1	14-oz
Warehouse	Worthington Pro grade	1	14.1-oz
Warehouse	Refrigerant Propane R-290	1	14.1-oz
Warehouse	ZEP Heavy-Duty Citrus Degreaser	>2	3.5-gal
Warehouse	Propyleneglycol	1	3-gal
Warehouse	Clorox Bleach	1	3.78-qt
Warehouse	Nitrogen cylinders	>5	300 L
Warehouse	Citrus Cleaner/Degreaser	1	1-gal
Warehouse	Opteon XP40 Refrigerant (R-449A)	1	25 lb
Warehouse	BVA Alkyl 100e Synthetic Refrigeration Oil	4	1-gal
Warehouse	Purity Labs, Inc. BWT-N	1	5-gal
Warehouse	Roto-Rooter Preventive Pipe Shield	1	1-gal
Warehouse	Method bathroom Cleaner	1	28-oz
Warehouse	Solest Polyol Ester Compressor Oil	1	1-gal
Warehouse	Emkarate RL Refrigeration Lubricant	1	1-gal
Warehouse	Ultra 32-3MAF Polyol Ester oil	1	1-gal
Warehouse	AF607 Duct Sealant	1	5-gal
Warehouse	National Refrigerant 404A	>15	24 lb
Bathroom	Clorox Bleach	1	32-oz
Bathroom	Surface Disinfectant and deodorant	1	16-oz
Upstairs Offices	Behr Paint and Primer	5	1-gal
Upstairs Offices	Febreze	1	8.8-oz
Kitchen Closet	Zep Antibacterial Disinfectant and Cleaner	1	1-gal
Kitchen Closet	Clorox Disinfectant Cleaner with bleach	1	1-gal
Kitchen Closet	Mr. Clean Antibacterial cleaner	2	1-gal
Kitchen Closet	Windex	1	1-gal
Kitchen Closet	Swiffer Floor Cleaner	1	1.25 L
Kitchen Closet	HP Laserjet Ink Cartridges	>20	
Kitchen Closet	Sevin Insecticide	1	32-oz
Kitchen Closet	HDX Glass Cleaner	1	32-oz
Kitchen	Talon Drain Opener	1	1 lb
Kitchen	Clorox Cleaner with bleach	1	1-qt
Kitchen	Isopropyl Alcohol	1	32-oz
Kitchen	Zep stainless steel cleaner and polish	1	14-oz
Kitchen	Clorox germicidal bleach	1	1-gal
Kitchen	method daily granite cleaner	1	28-oz
Kitchen	Comet Bleach	1	21-oz
Kitchen	Pledge Lemon Clean	1	13-oz
Kitchen	Dawn Platinum Dish spray	1	16-oz
Kitchen	Lysol Neutra air spray	1	10-oz
Kitchen	Scrubbing bubbles	1	32-oz
Kitchen	Zep Fast 505 Industrial cleaner & Degreaser	1	1-qt
Kitchen	Coffee clean	1	32-oz
Kitchen	Clorox Cleaner and Bleach	1	1.41 gal
Kitchen	Microban sanitizing spray	1	
Kitchen	Fancy Heat Methanol Blue	8	7.05-oz
Kitchen	AJAX Bleach	1	21-oz
Kitchen	Mango Dry air freshener	1	10-oz
Office Bathroom	Glade Spray	1	8-oz
Office Bathroom	Clorox toilet bowl cleaner	1	24-oz
Office Bathroom	Clorox germicidal bleach	2	1-gal
Office Bathroom	Comet disinfectant cleaner with bleach	1	1-qt

Product Inventory
Forever Iron Doors
125 State Street, Westbury, New York

Tenant Space: Forever Iron Doors			
Location	Product Name/Description	Quantity	
		# of Bottles	Size
Storage Room	Surpass Spray Paint	9	400 ml
Storage Room	Paint Cans Misc.	5	8-oz
Upstairs Office	AJAX Bleach	1	21-oz
Warehouse	Latex Paint	1	5-gal

Product Inventory - Supplemental
125 State Street, Westbury, New York

Tomco Mechanical		Date: 4/27/23	
Location	Product Name/Description	Quantity	
		# of Bottles	Size
Kitchen Closet	Clorox Bleach	3	1-gal
Kitchen Closet	Clorox Cleanup Disinfectant cleaner w/ Bleach	1	1-gal
Kitchen Closet	Clorox no splash formula	1	1-gal
Kitchen Closet	Swiffer wet jet	2	1.25-L
Kitchen Closet	Method all Purpose Cleaner	1	1-gal
Kitchen	Fantastik Heavy Duty all purpose cleaner	1	1-qt
Kitchen	Zep stainless steel cleaner and polish	1	14-oz
Kitchen	Clorox germicidal bleach	1	1-gal
Kitchen	Perfect Granite Daily Cleaner	1	23-oz
Kitchen	First Force Kitchen and Bath Cleaner	1	32-oz
Kitchen	Lysol Neutra air spray	1	10-oz
Kitchen	409 All Purpose Cleaner	1	32-oz
Warehouse	R 22	>5	100-lbs
Warehouse	R 404A/HP62	>5	50-lbs
Warehouse	R 407A	>5	25-50-lbs
Warehouse	R 134A	>5	30-lbs
Warehouse	R 448A	1	80-lbs
Warehouse	HP80	5	5-gal
Warehouse	MP39	4	5-gal
Warehouse	Silco RTV4500 High Strength Silicone Sealant	2	10.3-oz
Warehouse	Ultra 32-3MAF Polyol Ester Oil	4	1-gal
Warehouse	Ridgid Nu-clear Thread Cutting Oil	1	1-gal
Warehouse	Zerol 200TD Alkyl Refrigeration Oil	1	1-gal
Warehouse	Boss Products 370 Clear Silicone	1	10-oz
NE Garage	R 404a	9	24-lbs
NE Garage	Manus Bond Non-skinning Butyl Sealant	2	10.1-oz
NE Garage	Opteon XP-40 R-449A	2	25-lbs
NE Garage	Acetone	1	1-qt
NE Garage	R 22	>20	30-lbs
NE Garage	Unmarked Refrigerant Canisters	>10	
NE Garage	Great Stuff Gaps and Cracks	1	16-oz
NE Garage	Freon 410A	1	25-lbs
Warehouse 2nd Floor Mezzanine	Klean Strip Paint Thinner	1	1-gal
Warehouse 2nd Floor Mezzanine	Sterno Canned Heat	3	7-oz
Warehouse 2nd Floor Mezzanine	Lansdale Lans Seal Industrial Grade Thread Sealant with PTFE	1	32-oz
Warehouse 2nd Floor Mezzanine	Mobil Special Motor Oil	1	1-qt
Warehouse 2nd Floor Mezzanine	Cold Galvanizing Spray	1	16-oz
West Warehouse	Duro Dyne DTWAC	2	16-oz
West Warehouse	Elgen AC 88 Industrial fiberglass edge casting duct butter	1	



APPENDIX E

WEATHER CONDITIONS

Date	Temperature (F)	Precipitation (in)	Dew Point (F)	Wind (mph)	Sea Level Pressure (in)
3/7/2023	High 48 Low 32	0.80	High 31 Low 15	Max 33	30.01
3/8/2023	High 47 Low 30	0.00	High 26 Low 16	Max 30	30.19
3/29/2023	High 51 Low 37	0.02	High 39 Low 17	Max 24	30.19
3/30/2023	High 46 Low 31	0.02	High 35 Low 10	Max 31	30.35



APPENDIX F



ANALYTICAL REPORT

Lab Number:	L2312494
Client:	Castleton Environmental, Inc. 50 Park Avenue Babylon, NY 11702
ATTN:	Daren Murphy
Phone:	(631) 482-1818
Project Name:	TOMC2201
Project Number:	TOMC2201
Report Date:	03/21/23

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: TOMC2201

Project Number: TOMC2201

Lab Number: L2312494

Report Date: 03/21/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2312494-01	SSV01	SOIL_VAPOR	WESTBURY, NY	03/08/23 11:46	03/09/23
L2312494-02	SSV02	SOIL_VAPOR	WESTBURY, NY	03/08/23 12:12	03/09/23
L2312494-03	SSV03	SOIL_VAPOR	WESTBURY, NY	03/08/23 13:08	03/09/23
L2312494-04	SSV04	SOIL_VAPOR	WESTBURY, NY	03/08/23 13:25	03/09/23
L2312494-05	IAQ01	AIR	WESTBURY, NY	03/08/23 11:45	03/09/23
L2312494-06	IAQ02	AIR	WESTBURY, NY	03/08/23 12:06	03/09/23
L2312494-07	IAQ03	AIR	WESTBURY, NY	03/08/23 13:02	03/09/23
L2312494-08	IAQ04	AIR	WESTBURY, NY	03/08/23 13:26	03/09/23
L2312494-09	OAQ01	AIR	WESTBURY, NY	03/08/23 10:50	03/09/23
L2312494-10	DUP01(IAQ)	AIR	WESTBURY, NY	03/08/23 12:59	03/09/23

Project Name: TOMC2201**Lab Number:** L2312494**Project Number:** TOMC2201**Report Date:** 03/21/23

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: TOMC2201

Lab Number: L2312494

Project Number: TOMC2201

Report Date: 03/21/23

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on March 6, 2023. The canister certification results are provided as an addendum.

L2312494-03D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

The WG1756728-3 LCS recovery for bromoform (144%) is above the upper 130% acceptance limit. All samples associated with this LCS do not have reportable amounts of this analyte.

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

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 03/21/23

AIR

Project Name: TOMC2201**Lab Number:** L2312494**Project Number:** TOMC2201**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-01
 Client ID: SSV01
 Sample Location: WESTBURY, NY

Date Collected: 03/08/23 11:46
 Date Received: 03/09/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/21/23 00:38
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	3.09	0.200	--	15.3	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	4.40	1.00	--	10.5	2.38	--		1
Trichlorofluoromethane	0.320	0.200	--	1.80	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	1.79	0.500	--	5.43	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	1.08	0.200	--	3.36	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	2.53	0.200	--	10.2	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



Project Name: TOMC2201**Lab Number:** L2312494**Project Number:** TOMC2201**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-01
 Client ID: SSV01
 Sample Location: WESTBURY, NY

Date Collected: 03/08/23 11:46
 Date Received: 03/09/23
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
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	50.9	0.200	--	278	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.254	0.200	--	0.874	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	1.61	0.200	--	6.60	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	42.0	0.200	--	285	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1



Project Name: TOMC2201**Lab Number:** L2312494**Project Number:** TOMC2201**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-01
 Client ID: SSV01
 Sample Location: WESTBURY, NY

Date Collected: 03/08/23 11:46
 Date Received: 03/09/23
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	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
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	85		60-140



Project Name: TOMC2201**Lab Number:** L2312494**Project Number:** TOMC2201**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-02
 Client ID: SSV02
 Sample Location: WESTBURY, NY

Date Collected: 03/08/23 12:12
 Date Received: 03/09/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/21/23 01:16
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	2.49	0.200	--	12.3	0.989	--		1
Chloromethane	0.238	0.200	--	0.491	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	0.332	0.200	--	0.734	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	7.14	5.00	--	13.5	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	16.9	1.00	--	40.1	2.38	--		1
Trichlorofluoromethane	0.334	0.200	--	1.88	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	1.91	0.500	--	5.79	1.52	--		1
Methylene chloride	3.06	0.500	--	10.6	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	1.63	0.200	--	6.60	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.902	0.500	--	2.66	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: TOMC2201**Lab Number:** L2312494**Project Number:** TOMC2201**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-02
 Client ID: SSV02
 Sample Location: WESTBURY, NY

Date Collected: 03/08/23 12:12
 Date Received: 03/09/23
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
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	22.5	0.200	--	123	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	0.252	0.200	--	1.35	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.272	0.200	--	1.11	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.233	0.200	--	0.878	0.754	--		1
2-Hexanone	0.524	0.200	--	2.15	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	41.7	0.200	--	283	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1



Project Name: TOMC2201**Lab Number:** L2312494**Project Number:** TOMC2201**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-02
 Client ID: SSV02
 Sample Location: WESTBURY, NY

Date Collected: 03/08/23 12:12
 Date Received: 03/09/23
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	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
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	91		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	89		60-140



Project Name: TOMC2201**Lab Number:** L2312494**Project Number:** TOMC2201**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-03 D

Client ID: SSV03

Sample Location: WESTBURY, NY

Date Collected: 03/08/23 13:08

Date Received: 03/09/23

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 03/21/23 01:52

Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	4.76	0.556	--	23.5	2.75	--		2.778
Chloromethane	ND	0.556	--	ND	1.15	--		2.778
Freon-114	ND	0.556	--	ND	3.89	--		2.778
Vinyl chloride	ND	0.556	--	ND	1.42	--		2.778
1,3-Butadiene	ND	0.556	--	ND	1.23	--		2.778
Bromomethane	ND	0.556	--	ND	2.16	--		2.778
Chloroethane	ND	0.556	--	ND	1.47	--		2.778
Ethanol	176	13.9	--	332	26.2	--		2.778
Vinyl bromide	ND	0.556	--	ND	2.43	--		2.778
Acetone	46.2	2.78	--	110	6.60	--		2.778
Trichlorofluoromethane	ND	0.556	--	ND	3.12	--		2.778
Isopropanol	6.22	1.39	--	15.3	3.42	--		2.778
1,1-Dichloroethene	ND	0.556	--	ND	2.20	--		2.778
Tertiary butyl Alcohol	2.23	1.39	--	6.76	4.21	--		2.778
Methylene chloride	ND	1.39	--	ND	4.83	--		2.778
3-Chloropropene	ND	0.556	--	ND	1.74	--		2.778
Carbon disulfide	ND	0.556	--	ND	1.73	--		2.778
Freon-113	ND	0.556	--	ND	4.26	--		2.778
trans-1,2-Dichloroethene	ND	0.556	--	ND	2.20	--		2.778
1,1-Dichloroethane	1.19	0.556	--	4.82	2.25	--		2.778
Methyl tert butyl ether	ND	0.556	--	ND	2.00	--		2.778
2-Butanone	ND	1.39	--	ND	4.10	--		2.778
cis-1,2-Dichloroethene	ND	0.556	--	ND	2.20	--		2.778



Project Name: TOMC2201**Lab Number:** L2312494**Project Number:** TOMC2201**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-03 D

Client ID: SSV03

Sample Location: WESTBURY, NY

Date Collected: 03/08/23 13:08

Date Received: 03/09/23

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	1.39	--	ND	5.01	--		2.778
Chloroform	ND	0.556	--	ND	2.72	--		2.778
Tetrahydrofuran	ND	1.39	--	ND	4.10	--		2.778
1,2-Dichloroethane	ND	0.556	--	ND	2.25	--		2.778
n-Hexane	ND	0.556	--	ND	1.96	--		2.778
1,1,1-Trichloroethane	37.5	0.556	--	205	3.03	--		2.778
Benzene	ND	0.556	--	ND	1.78	--		2.778
Carbon tetrachloride	ND	0.556	--	ND	3.50	--		2.778
Cyclohexane	ND	0.556	--	ND	1.91	--		2.778
1,2-Dichloropropane	ND	0.556	--	ND	2.57	--		2.778
Bromodichloromethane	ND	0.556	--	ND	3.72	--		2.778
1,4-Dioxane	ND	0.556	--	ND	2.00	--		2.778
Trichloroethene	1.14	0.556	--	6.13	2.99	--		2.778
2,2,4-Trimethylpentane	ND	0.556	--	ND	2.60	--		2.778
Heptane	ND	0.556	--	ND	2.28	--		2.778
cis-1,3-Dichloropropene	ND	0.556	--	ND	2.52	--		2.778
4-Methyl-2-pentanone	ND	1.39	--	ND	5.70	--		2.778
trans-1,3-Dichloropropene	ND	0.556	--	ND	2.52	--		2.778
1,1,2-Trichloroethane	ND	0.556	--	ND	3.03	--		2.778
Toluene	ND	0.556	--	ND	2.10	--		2.778
2-Hexanone	0.589	0.556	--	2.41	2.28	--		2.778
Dibromochloromethane	ND	0.556	--	ND	4.74	--		2.778
1,2-Dibromoethane	ND	0.556	--	ND	4.27	--		2.778
Tetrachloroethene	116	0.556	--	787	3.77	--		2.778
Chlorobenzene	ND	0.556	--	ND	2.56	--		2.778
Ethylbenzene	ND	0.556	--	ND	2.42	--		2.778



Project Name: TOMC2201**Lab Number:** L2312494**Project Number:** TOMC2201**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-03 D

Client ID: SSV03

Sample Location: WESTBURY, NY

Date Collected: 03/08/23 13:08

Date Received: 03/09/23

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	1.11	--	ND	4.82	--		2.778
Bromoform	ND	0.556	--	ND	5.75	--		2.778
Styrene	ND	0.556	--	ND	2.37	--		2.778
1,1,2,2-Tetrachloroethane	ND	0.556	--	ND	3.82	--		2.778
o-Xylene	ND	0.556	--	ND	2.42	--		2.778
4-Ethyltoluene	ND	0.556	--	ND	2.73	--		2.778
1,3,5-Trimethylbenzene	ND	0.556	--	ND	2.73	--		2.778
1,2,4-Trimethylbenzene	ND	0.556	--	ND	2.73	--		2.778
Benzyl chloride	ND	0.556	--	ND	2.88	--		2.778
1,3-Dichlorobenzene	ND	0.556	--	ND	3.34	--		2.778
1,4-Dichlorobenzene	ND	0.556	--	ND	3.34	--		2.778
1,2-Dichlorobenzene	ND	0.556	--	ND	3.34	--		2.778
1,2,4-Trichlorobenzene	ND	0.556	--	ND	4.13	--		2.778
Hexachlorobutadiene	ND	0.556	--	ND	5.93	--		2.778

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



Project Name: TOMC2201**Lab Number:** L2312494**Project Number:** TOMC2201**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-05
 Client ID: IAQ01
 Sample Location: WESTBURY, NY

Date Collected: 03/08/23 11:45
 Date Received: 03/09/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/20/23 21:26
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	5.42	0.200	--	26.8	0.989	--		1
Chloromethane	0.516	0.200	--	1.07	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	22.8	5.00	--	43.0	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	22.2	1.00	--	52.7	2.38	--		1
Trichlorofluoromethane	0.234	0.200	--	1.31	1.12	--		1
Isopropanol	2.25	0.500	--	5.53	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	1.73	0.500	--	6.01	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.893	0.500	--	2.63	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.733	0.500	--	2.16	1.47	--		1



Project Name: TOMC2201**Lab Number:** L2312494**Project Number:** TOMC2201**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-05
 Client ID: IAQ01
 Sample Location: WESTBURY, NY

Date Collected: 03/08/23 11:45
 Date Received: 03/09/23
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.471	0.200	--	1.66	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	0.692	0.200	--	2.61	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	0.612	0.200	--	2.66	0.869	--		1
p/m-Xylene	1.57	0.400	--	6.82	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	0.834	0.200	--	3.62	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: TOMC2201**Lab Number:** L2312494**Project Number:** TOMC2201**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-05
 Client ID: IAQ01
 Sample Location: WESTBURY, NY

Date Collected: 03/08/23 11:45
 Date Received: 03/09/23
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	0.296	0.200	--	1.46	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	86		60-140
Bromochloromethane	86		60-140
chlorobenzene-d5	81		60-140



Project Name: TOMC2201**Lab Number:** L2312494**Project Number:** TOMC2201**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-05
 Client ID: IAQ01
 Sample Location: WESTBURY, NY

Date Collected: 03/08/23 11:45
 Date Received: 03/09/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/20/23 21:26
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.098	0.020	--	0.616	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.033	0.020	--	0.224	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	87		60-140
bromochloromethane	87		60-140
chlorobenzene-d5	85		60-140



Project Name: TOMC2201**Lab Number:** L2312494**Project Number:** TOMC2201**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-06
 Client ID: IAQ02
 Sample Location: WESTBURY, NY

Date Collected: 03/08/23 12:06
 Date Received: 03/09/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/20/23 22:04
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	6.24	0.200	--	30.9	0.989	--		1
Chloromethane	0.537	0.200	--	1.11	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	19.3	5.00	--	36.4	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	21.5	1.00	--	51.1	2.38	--		1
Trichlorofluoromethane	0.231	0.200	--	1.30	1.12	--		1
Isopropanol	1.59	0.500	--	3.91	1.23	--		1
Tertiary butyl Alcohol	0.896	0.500	--	2.72	1.52	--		1
Methylene chloride	0.527	0.500	--	1.83	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.749	0.500	--	2.21	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: TOMC2201**Lab Number:** L2312494**Project Number:** TOMC2201**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-06
 Client ID: IAQ02
 Sample Location: WESTBURY, NY

Date Collected: 03/08/23 12:06
 Date Received: 03/09/23
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.400	0.200	--	1.41	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	0.514	0.200	--	1.94	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	0.454	0.400	--	1.97	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: TOMC2201**Lab Number:** L2312494**Project Number:** TOMC2201**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-06
 Client ID: IAQ02
 Sample Location: WESTBURY, NY

Date Collected: 03/08/23 12:06
 Date Received: 03/09/23
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	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	87		60-140
chlorobenzene-d5	84		60-140



Project Name: TOMC2201**Lab Number:** L2312494**Project Number:** TOMC2201**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-06
 Client ID: IAQ02
 Sample Location: WESTBURY, NY

Date Collected: 03/08/23 12:06
 Date Received: 03/09/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/20/23 22:04
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.094	0.020	--	0.591	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.027	0.020	--	0.183	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	88		60-140
bromochloromethane	88		60-140
chlorobenzene-d5	87		60-140



Project Name: TOMC2201**Project Number:** TOMC2201**Lab Number:** L2312494**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-07
 Client ID: IAQ03
 Sample Location: WESTBURY, NY

Date Collected: 03/08/23 13:02
 Date Received: 03/09/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/20/23 22:42
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	12.4	0.200	--	61.3	0.989	--		1
Chloromethane	0.544	0.200	--	1.12	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	44.1	5.00	--	83.1	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	19.0	1.00	--	45.1	2.38	--		1
Trichlorofluoromethane	0.240	0.200	--	1.35	1.12	--		1
Isopropanol	2.77	0.500	--	6.81	1.23	--		1
Tertiary butyl Alcohol	0.544	0.500	--	1.65	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.722	0.500	--	2.13	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: TOMC2201**Lab Number:** L2312494**Project Number:** TOMC2201**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-07
 Client ID: IAQ03
 Sample Location: WESTBURY, NY

Date Collected: 03/08/23 13:02
 Date Received: 03/09/23
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.511	0.200	--	1.80	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	0.663	0.200	--	2.50	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: TOMC2201**Lab Number:** L2312494**Project Number:** TOMC2201**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-07

Date Collected: 03/08/23 13:02

Client ID: IAQ03

Date Received: 03/09/23

Sample Location: WESTBURY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	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	86		60-140
chlorobenzene-d5	80		60-140



Project Name: TOMC2201**Lab Number:** L2312494**Project Number:** TOMC2201**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-07
 Client ID: IAQ03
 Sample Location: WESTBURY, NY

Date Collected: 03/08/23 13:02
 Date Received: 03/09/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/20/23 22:42
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.088	0.020	--	0.554	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.028	0.020	--	0.190	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	86		60-140
bromochloromethane	86		60-140
chlorobenzene-d5	83		60-140



Project Name: TOMC2201**Project Number:** TOMC2201**Lab Number:** L2312494**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-08
 Client ID: IAQ04
 Sample Location: WESTBURY, NY

Date Collected: 03/08/23 13:26
 Date Received: 03/09/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/20/23 23:21
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	8.94	0.200	--	44.2	0.989	--		1
Chloromethane	0.594	0.200	--	1.23	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	293	5.00	--	552	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	17.3	1.00	--	41.1	2.38	--		1
Trichlorofluoromethane	0.234	0.200	--	1.31	1.12	--		1
Isopropanol	26.5	0.500	--	65.1	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	0.593	0.500	--	1.75	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: TOMC2201**Lab Number:** L2312494**Project Number:** TOMC2201**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-08
 Client ID: IAQ04
 Sample Location: WESTBURY, NY

Date Collected: 03/08/23 13:26
 Date Received: 03/09/23
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.282	0.200	--	0.994	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	0.361	0.200	--	1.48	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	0.551	0.200	--	2.08	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	0.412	0.400	--	1.79	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	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: TOMC2201**Lab Number:** L2312494**Project Number:** TOMC2201**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-08
 Client ID: IAQ04
 Sample Location: WESTBURY, NY

Date Collected: 03/08/23 13:26
 Date Received: 03/09/23
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	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	86		60-140
chlorobenzene-d5	81		60-140



Project Name: TOMC2201**Lab Number:** L2312494**Project Number:** TOMC2201**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-08
 Client ID: IAQ04
 Sample Location: WESTBURY, NY

Date Collected: 03/08/23 13:26
 Date Received: 03/09/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/20/23 23:21
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.025	0.020	--	0.136	0.109	--		1
Carbon tetrachloride	0.152	0.020	--	0.956	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.069	0.020	--	0.468	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	86		60-140
bromochloromethane	87		60-140
chlorobenzene-d5	84		60-140



Project Name: TOMC2201**Project Number:** TOMC2201**Lab Number:** L2312494**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-09
 Client ID: OAQ01
 Sample Location: WESTBURY, NY

Date Collected: 03/08/23 10:50
 Date Received: 03/09/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/20/23 17:35
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.478	0.200	--	2.36	0.989	--		1
Chloromethane	0.536	0.200	--	1.11	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	10.6	5.00	--	20.0	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	6.05	1.00	--	14.4	2.38	--		1
Trichlorofluoromethane	0.222	0.200	--	1.25	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Tertiary butyl Alcohol	1.66	0.500	--	5.03	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: TOMC2201**Lab Number:** L2312494**Project Number:** TOMC2201**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-09
 Client ID: OAQ01
 Sample Location: WESTBURY, NY

Date Collected: 03/08/23 10:50
 Date Received: 03/09/23
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	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	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
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
1,1,1,2,2-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: TOMC2201**Lab Number:** L2312494**Project Number:** TOMC2201**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-09
 Client ID: OAQ01
 Sample Location: WESTBURY, NY

Date Collected: 03/08/23 10:50
 Date Received: 03/09/23
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	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	97		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	94		60-140



Project Name: TOMC2201**Lab Number:** L2312494**Project Number:** TOMC2201**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-09
 Client ID: OAO01
 Sample Location: WESTBURY, NY

Date Collected: 03/08/23 10:50
 Date Received: 03/09/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/20/23 17:35
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.080	0.020	--	0.503	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	98		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	98		60-140



Project Name: TOMC2201**Project Number:** TOMC2201**Lab Number:** L2312494**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-10
 Client ID: DUP01(IAQ)
 Sample Location: WESTBURY, NY

Date Collected: 03/08/23 12:59
 Date Received: 03/09/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/20/23 23:59
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	12.4	0.200	--	61.3	0.989	--		1
Chloromethane	0.557	0.200	--	1.15	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	38.7	5.00	--	72.9	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	17.4	1.00	--	41.3	2.38	--		1
Trichlorofluoromethane	0.253	0.200	--	1.42	1.12	--		1
Isopropanol	2.51	0.500	--	6.17	1.23	--		1
Tertiary butyl Alcohol	0.513	0.500	--	1.56	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.707	0.500	--	2.09	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: TOMC2201**Lab Number:** L2312494**Project Number:** TOMC2201**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-10
 Client ID: DUP01(IAQ)
 Sample Location: WESTBURY, NY

Date Collected: 03/08/23 12:59
 Date Received: 03/09/23
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.522	0.200	--	1.84	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	0.636	0.200	--	2.40	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: TOMC2201**Lab Number:** L2312494**Project Number:** TOMC2201**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-10
 Client ID: DUP01(IAQ)
 Sample Location: WESTBURY, NY

Date Collected: 03/08/23 12:59
 Date Received: 03/09/23
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	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	87		60-140
chlorobenzene-d5	83		60-140



Project Name: TOMC2201**Lab Number:** L2312494**Project Number:** TOMC2201**Report Date:** 03/21/23**SAMPLE RESULTS**

Lab ID: L2312494-10
 Client ID: DUP01(IAQ)
 Sample Location: WESTBURY, NY

Date Collected: 03/08/23 12:59
 Date Received: 03/09/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/20/23 23:59
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.098	0.020	--	0.616	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	87		60-140
bromochloromethane	88		60-140
chlorobenzene-d5	86		60-140



Project Name: TOMC2201

Lab Number: L2312494

Project Number: TOMC2201

Report Date: 03/21/23

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/20/23 16:02

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 05-10 Batch: WG1756726-4								
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: TOMC2201

Lab Number: L2312494

Project Number: TOMC2201

Report Date: 03/21/23

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/20/23 15:24

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03,05-10 Batch: WG1756728-4								
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: TOMC2201

Lab Number: L2312494

Project Number: TOMC2201

Report Date: 03/21/23

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/20/23 15:24

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03,05-10 Batch: WG1756728-4								
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: TOMC2201

Lab Number: L2312494

Project Number: TOMC2201

Report Date: 03/21/23

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/20/23 15:24

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03,05-10 Batch: WG1756728-4								
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: TOMC2201

Project Number: TOMC2201

Lab Number: L2312494

Report Date: 03/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 05-10 Batch: WG1756726-3								
Vinyl chloride	89		-		70-130	-		25
1,1-Dichloroethene	102		-		70-130	-		25
cis-1,2-Dichloroethene	99		-		70-130	-		25
1,1,1-Trichloroethane	115		-		70-130	-		25
Carbon tetrachloride	124		-		70-130	-		25
Trichloroethene	102		-		70-130	-		25
Tetrachloroethene	100		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMC2201

Project Number: TOMC2201

Lab Number: L2312494

Report Date: 03/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03,05-10 Batch: WG1756728-3								
Dichlorodifluoromethane	100		-		70-130	-		
Chloromethane	93		-		70-130	-		
Freon-114	97		-		70-130	-		
Vinyl chloride	90		-		70-130	-		
1,3-Butadiene	89		-		70-130	-		
Bromomethane	94		-		70-130	-		
Chloroethane	88		-		70-130	-		
Ethanol	86		-		40-160	-		
Vinyl bromide	101		-		70-130	-		
Acetone	101		-		40-160	-		
Trichlorofluoromethane	107		-		70-130	-		
Isopropanol	91		-		40-160	-		
1,1-Dichloroethene	101		-		70-130	-		
Tertiary butyl Alcohol	91		-		70-130	-		
Methylene chloride	96		-		70-130	-		
3-Chloropropene	104		-		70-130	-		
Carbon disulfide	97		-		70-130	-		
Freon-113	106		-		70-130	-		
trans-1,2-Dichloroethene	98		-		70-130	-		
1,1-Dichloroethane	100		-		70-130	-		
Methyl tert butyl ether	94		-		70-130	-		
2-Butanone	100		-		70-130	-		
cis-1,2-Dichloroethene	102		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMC2201

Project Number: TOMC2201

Lab Number: L2312494

Report Date: 03/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03,05-10 Batch: WG1756728-3								
Ethyl Acetate	104		-		70-130	-		
Chloroform	103		-		70-130	-		
Tetrahydrofuran	96		-		70-130	-		
1,2-Dichloroethane	104		-		70-130	-		
n-Hexane	96		-		70-130	-		
1,1,1-Trichloroethane	116		-		70-130	-		
Benzene	89		-		70-130	-		
Carbon tetrachloride	124		-		70-130	-		
Cyclohexane	97		-		70-130	-		
1,2-Dichloropropane	101		-		70-130	-		
Bromodichloromethane	116		-		70-130	-		
1,4-Dioxane	97		-		70-130	-		
Trichloroethene	102		-		70-130	-		
2,2,4-Trimethylpentane	98		-		70-130	-		
Heptane	102		-		70-130	-		
cis-1,3-Dichloropropene	104		-		70-130	-		
4-Methyl-2-pentanone	106		-		70-130	-		
trans-1,3-Dichloropropene	90		-		70-130	-		
1,1,2-Trichloroethane	108		-		70-130	-		
Toluene	94		-		70-130	-		
2-Hexanone	99		-		70-130	-		
Dibromochloromethane	130		-		70-130	-		
1,2-Dibromoethane	102		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMC2201

Project Number: TOMC2201

Lab Number: L2312494

Report Date: 03/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03,05-10 Batch: WG1756728-3								
Tetrachloroethene	101		-		70-130	-		
Chlorobenzene	94		-		70-130	-		
Ethylbenzene	100		-		70-130	-		
p/m-Xylene	101		-		70-130	-		
Bromoform	144	Q	-		70-130	-		
Styrene	94		-		70-130	-		
1,1,2,2-Tetrachloroethane	98		-		70-130	-		
o-Xylene	102		-		70-130	-		
4-Ethyltoluene	98		-		70-130	-		
1,3,5-Trimethylbenzene	95		-		70-130	-		
1,2,4-Trimethylbenzene	98		-		70-130	-		
Benzyl chloride	103		-		70-130	-		
1,3-Dichlorobenzene	96		-		70-130	-		
1,4-Dichlorobenzene	94		-		70-130	-		
1,2-Dichlorobenzene	96		-		70-130	-		
1,2,4-Trichlorobenzene	91		-		70-130	-		
Hexachlorobutadiene	98		-		70-130	-		

Project Name: TOMC2201

Project Number: TOMC2201

Serial_No:03212317:19
Lab Number: L2312494

Report Date: 03/21/23

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2312494-01	SSV01	0279	Flow 5	03/06/23	415326		-	-	-	Pass	3.0	2.9	3
L2312494-01	SSV01	3574	6.0L Can	03/06/23	415326	L2310338-05	Pass	-30.1	-7.7	-	-	-	-
L2312494-02	SSV02	02271	Flow 5	03/06/23	415326		-	-	-	Pass	3.0	3.4	13
L2312494-02	SSV02	770	6.0L Can	03/06/23	415326	L2310171-08	Pass	-29.5	-9.3	-	-	-	-
L2312494-03	SSV03	02154	Flow 5	03/06/23	415326		-	-	-	Pass	3.0	2.7	11
L2312494-03	SSV03	2560	6.0L Can	03/06/23	415326	L2310338-05	Pass	-30.0	-9.7	-	-	-	-
L2312494-04	SSV04	02201	Flow 5	03/06/23	415326		-	-	-	Pass	3.0	0.0	200
L2312494-04	SSV04	1618	6.0L Can	03/06/23	415326	L2310171-08	Pass	-30.1	-29.5	-	-	-	-
L2312494-05	IAQ01	0984	Flow 5	03/06/23	415326		-	-	-	Pass	3.0	2.8	7
L2312494-05	IAQ01	2381	6.0L Can	03/06/23	415326	L2310338-03	Pass	-30.1	-6.7	-	-	-	-
L2312494-06	IAQ02	02257	Flow 4	03/06/23	415326		-	-	-	Pass	3.0	4.0	29
L2312494-06	IAQ02	3953	6.0L Can	03/06/23	415326	L2310338-04	Pass	-30.1	-6.7	-	-	-	-
L2312494-07	IAQ03	02276	Flow 5	03/06/23	415326		-	-	-	Pass	3.0	3.0	0
L2312494-07	IAQ03	3151	6.0L Can	03/06/23	415326	L2310338-04	Pass	-30.1	-9.3	-	-	-	-
L2312494-08	IAQ04	0246	Flow 5	03/06/23	415326		-	-	-	Pass	3.0	2.9	3

Project Name: TOMC2201

Project Number: TOMC2201

Serial_No:03212317:19
Lab Number: L2312494

Report Date: 03/21/23

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2312494-08	IAQ04	625	6.0L Can	03/06/23	415326	L2310338-04	Pass	-30.1	-11.4	-	-	-	-
L2312494-09	OAQ01	01407	Flow 4	03/06/23	415326		-	-	-	Pass	3.0	5.1	52
L2312494-09	OAQ01	2002	6.0L Can	03/06/23	415326	L2310338-03	Pass	-30.1	0.0	-	-	-	-
L2312494-10	DUP01(IAQ)	01490	Flow 4	03/06/23	415326		-	-	-	Pass	3.0	2.7	11
L2312494-10	DUP01(IAQ)	1789	6.0L Can	03/06/23	415326	L2310338-04	Pass	-30.1	-7.7	-	-	-	-

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

Lab Number: L2310171
Report Date: 03/21/23

Air Canister Certification Results

Lab ID: L2310171-08
Client ID: CAN 2975 SHELF 36
Sample Location:

Date Collected: 02/27/23 11:00
Date Received: 02/27/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 02/28/23 00:41
Analyst: TJS

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



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

Lab Number: L2310171
Report Date: 03/21/23

Air Canister Certification Results

Lab ID: L2310171-08
Client ID: CAN 2975 SHELF 36
Sample Location:

Date Collected: 02/27/23 11:00
Date Received: 02/27/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		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: L2310171
Report Date: 03/21/23

Air Canister Certification Results

Lab ID: L2310171-08
Client ID: CAN 2975 SHELF 36
Sample Location:

Date Collected: 02/27/23 11:00
Date Received: 02/27/23
Field Prep: Not Specified

Sample Depth:

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



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2310171**Project Number:** CANISTER QC BAT**Report Date:** 03/21/23**Air Canister Certification Results**

Lab ID: L2310171-08

Date Collected: 02/27/23 11:00

Client ID: CAN 2975 SHELF 36

Date Received: 02/27/23

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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
1,2,3-Trimethylbenzene	ND	0.200	--	ND	0.983	--		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



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2310171**Project Number:** CANISTER QC BAT**Report Date:** 03/21/23**Air Canister Certification Results**

Lab ID: L2310171-08

Date Collected: 02/27/23 11:00

Client ID: CAN 2975 SHELF 36

Date Received: 02/27/23

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

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

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

Lab Number: L2310171
Report Date: 03/21/23

Air Canister Certification Results

Lab ID: L2310171-08
Client ID: CAN 2975 SHELF 36
Sample Location:

Date Collected: 02/27/23 11:00
Date Received: 02/27/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 02/28/23 00:41
Analyst: NFL

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



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

Lab Number: L2310171
Report Date: 03/21/23

Air Canister Certification Results

Lab ID: L2310171-08
Client ID: CAN 2975 SHELF 36
Sample Location:

Date Collected: 02/27/23 11:00
Date Received: 02/27/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	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
1,1,1,2,2-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	0.100	--	ND	0.518	--		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:** L2310171**Project Number:** CANISTER QC BAT**Report Date:** 03/21/23**Air Canister Certification Results**

Lab ID: L2310171-08

Date Collected: 02/27/23 11:00

Client ID: CAN 2975 SHELF 36

Date Received: 02/27/23

Sample Location:

Field Prep: Not Specified

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	98		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	97		60-140



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

Lab Number: L2310338
Report Date: 03/21/23

Air Canister Certification Results

Lab ID: L2310338-03
Client ID: CAN 694 SHELF 31
Sample Location:

Date Collected: 02/27/23 18:00
Date Received: 02/28/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 02/28/23 20:53
Analyst: RAY

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



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

Lab Number: L2310338
Report Date: 03/21/23

Air Canister Certification Results

Lab ID: L2310338-03
Client ID: CAN 694 SHELF 31
Sample Location:

Date Collected: 02/27/23 18:00
Date Received: 02/28/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		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
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		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: L2310338
Report Date: 03/21/23

Air Canister Certification Results

Lab ID: L2310338-03
Client ID: CAN 694 SHELF 31
Sample Location:

Date Collected: 02/27/23 18:00
Date Received: 02/28/23
Field Prep: Not Specified

Sample Depth:

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



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

Lab Number: L2310338
Report Date: 03/21/23

Air Canister Certification Results

Lab ID: L2310338-03
Client ID: CAN 694 SHELF 31
Sample Location:

Date Collected: 02/27/23 18:00
Date Received: 02/28/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,3-Trimethylbenzene	ND	0.200	--	ND	0.983	--		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



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

Lab Number: L2310338
Report Date: 03/21/23

Air Canister Certification Results

Lab ID: L2310338-03
 Client ID: CAN 694 SHELF 31
 Sample Location:

Date Collected: 02/27/23 18:00
 Date Received: 02/28/23
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

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

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

Lab Number: L2310338
Report Date: 03/21/23

Air Canister Certification Results

Lab ID: L2310338-03
Client ID: CAN 694 SHELF 31
Sample Location:

Date Collected: 02/27/23 18:00
Date Received: 02/28/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 02/28/23 20:53
Analyst: JMB

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



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

Lab Number: L2310338
Report Date: 03/21/23

Air Canister Certification Results

Lab ID: L2310338-03
Client ID: CAN 694 SHELF 31
Sample Location:

Date Collected: 02/27/23 18:00
Date Received: 02/28/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	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
1,1,1,2,2-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	0.100	--	ND	0.518	--		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:** L2310338**Project Number:** CANISTER QC BAT**Report Date:** 03/21/23**Air Canister Certification Results**

Lab ID: L2310338-03

Date Collected: 02/27/23 18:00

Client ID: CAN 694 SHELF 31

Date Received: 02/28/23

Sample Location:

Field Prep: Not Specified

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	99		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	98		60-140

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

Lab Number: L2310338
Report Date: 03/21/23

Air Canister Certification Results

Lab ID: L2310338-04
Client ID: CAN 3092 SHELF 32
Sample Location:

Date Collected: 02/27/23 18:00
Date Received: 02/28/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 02/28/23 21:32
Analyst: RAY

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



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

Lab Number: L2310338
Report Date: 03/21/23

Air Canister Certification Results

Lab ID: L2310338-04
Client ID: CAN 3092 SHELF 32
Sample Location:

Date Collected: 02/27/23 18:00
Date Received: 02/28/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		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
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		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: L2310338
Report Date: 03/21/23

Air Canister Certification Results

Lab ID: L2310338-04
Client ID: CAN 3092 SHELF 32
Sample Location:

Date Collected: 02/27/23 18:00
Date Received: 02/28/23
Field Prep: Not Specified

Sample Depth:

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



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

Lab Number: L2310338
Report Date: 03/21/23

Air Canister Certification Results

Lab ID: L2310338-04
Client ID: CAN 3092 SHELF 32
Sample Location:

Date Collected: 02/27/23 18:00
Date Received: 02/28/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,3-Trimethylbenzene	ND	0.200	--	ND	0.983	--		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



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2310338**Project Number:** CANISTER QC BAT**Report Date:** 03/21/23**Air Canister Certification Results**

Lab ID: L2310338-04

Date Collected: 02/27/23 18:00

Client ID: CAN 3092 SHELF 32

Date Received: 02/28/23

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

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

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

Lab Number: L2310338
Report Date: 03/21/23

Air Canister Certification Results

Lab ID: L2310338-04
Client ID: CAN 3092 SHELF 32
Sample Location:

Date Collected: 02/27/23 18:00
Date Received: 02/28/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 02/28/23 21:32
Analyst: JMB

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



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

Lab Number: L2310338
Report Date: 03/21/23

Air Canister Certification Results

Lab ID: L2310338-04
Client ID: CAN 3092 SHELF 32
Sample Location:

Date Collected: 02/27/23 18:00
Date Received: 02/28/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	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
1,1,1,2,2-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	0.100	--	ND	0.518	--		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: L2310338
Report Date: 03/21/23

Air Canister Certification Results

Lab ID: L2310338-04
Client ID: CAN 3092 SHELF 32
Sample Location:

Date Collected: 02/27/23 18:00
Date Received: 02/28/23
Field Prep: Not Specified

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	100		60-140
bromochloromethane	102		60-140
chlorobenzene-d5	99		60-140

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

Lab Number: L2310338
Report Date: 03/21/23

Air Canister Certification Results

Lab ID: L2310338-05
Client ID: CAN 2721 SHELF 33
Sample Location:

Date Collected: 02/27/23 18:00
Date Received: 02/28/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 02/28/23 22:11
Analyst: RAY

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

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

Lab Number: L2310338
Report Date: 03/21/23

Air Canister Certification Results

Lab ID: L2310338-05
Client ID: CAN 2721 SHELF 33
Sample Location:

Date Collected: 02/27/23 18:00
Date Received: 02/28/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		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
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		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: L2310338
Report Date: 03/21/23

Air Canister Certification Results

Lab ID: L2310338-05
Client ID: CAN 2721 SHELF 33
Sample Location:

Date Collected: 02/27/23 18:00
Date Received: 02/28/23
Field Prep: Not Specified

Sample Depth:

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



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

Lab Number: L2310338
Report Date: 03/21/23

Air Canister Certification Results

Lab ID: L2310338-05
Client ID: CAN 2721 SHELF 33
Sample Location:

Date Collected: 02/27/23 18:00
Date Received: 02/28/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,3-Trimethylbenzene	ND	0.200	--	ND	0.983	--		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



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

Lab Number: L2310338
Report Date: 03/21/23

Air Canister Certification Results

Lab ID: L2310338-05
 Client ID: CAN 2721 SHELF 33
 Sample Location:

Date Collected: 02/27/23 18:00
 Date Received: 02/28/23
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	94		60-140

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

Lab Number: L2310338
Report Date: 03/21/23

Air Canister Certification Results

Lab ID: L2310338-05
Client ID: CAN 2721 SHELF 33
Sample Location:

Date Collected: 02/27/23 18:00
Date Received: 02/28/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 02/28/23 22:11
Analyst: JMB

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



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

Lab Number: L2310338
Report Date: 03/21/23

Air Canister Certification Results

Lab ID: L2310338-05
Client ID: CAN 2721 SHELF 33
Sample Location:

Date Collected: 02/27/23 18:00
Date Received: 02/28/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	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
1,1,1,2,2-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	0.100	--	ND	0.518	--		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:** L2310338**Project Number:** CANISTER QC BAT**Report Date:** 03/21/23**Air Canister Certification Results**

Lab ID: L2310338-05

Date Collected: 02/27/23 18:00

Client ID: CAN 2721 SHELF 33

Date Received: 02/28/23

Sample Location:

Field Prep: Not Specified

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	99		60-140
bromochloromethane	101		60-140
chlorobenzene-d5	98		60-140

Project Name: TOMC2201
Project Number: TOMC2201

Serial_No:03212317:19
Lab Number: L2312494
Report Date: 03/21/23

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(*)
L2312494-01A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2312494-02A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2312494-03A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2312494-04A	Canister - 6 Liter	NA	NA			Y	Absent		CANCELLED()
L2312494-05A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2312494-06A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2312494-07A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2312494-08A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2312494-09A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2312494-10A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)

Project Name: TOMC2201
Project Number: TOMC2201

Lab Number: L2312494
Report Date: 03/21/23

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: TOMC2201
Project Number: TOMC2201

Lab Number: L2312494
Report Date: 03/21/23

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: TOMC2201
Project Number: TOMC2201

Lab Number: L2312494
Report Date: 03/21/23

Data Qualifiers

- 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 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.)

Project Name: TOMC2201
Project Number: TOMC2201

Lab Number: L2312494
Report Date: 03/21/23

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, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

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

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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



AIR ANALYSIS

CHAIN OF CUSTODY

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

Client Information

Client: Castleton Env.
Address: 50 Park Ave,
Babylon, NY
Phone: 631-482-1818
Fax:
Email: Daren@Castletonenv.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

Project Information

Project Name: TOMC2201
Project Location: Westbury, NY
Project #: TOMC2201
Project Manager: Daren Murphy
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: Time:

Date Rec'd in Lab: 3/10/23

Report Information - Data Deliverables

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

ALPHA Job #: L2312494

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program Res / Comm

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION					Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 S	APH S	Fixed G	Sulfides &		Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum												
12494-01	SSV01	3/8/23	1332	1146	-30	-8	SV	JZ	6L	3574	0279	X						*Digital
-02	SSV02		1338	1212	-28	-9	SV	JZ	6L	770	0227	X						gauge gauge reading
-03	SSV03		1343	1308	-28	-10	SV	JZ	6L	2560	0215	X						-23 prior to opening Can.
-04	SSV04		1348	1325	-30	-30	SV	JZ	6L	1618	0220	X						*Digital gauge continued reading
-05	IAQ01		1332	1145	-30	-8	AA	JZ	6L	2381	0984	XX						-30 after opening. Gauge
-06	IAQ02		1336	1206	-30	-7	AA	JZ	6L	3953	0225	XX						continued read -30 after
-07	IAQ03		1341	1302	-30	-9	AA	JZ	6L	3151	0226	XX						closing Can.
-08	IAQ04		1348	1326	-30	-11	AA	JZ	6L	625	0246	XX						
-09	OAG01		1334	1050	-30	0.70	AA	JZ	6L	2002	0140	XX						*Temp. fluctuations may
-10	DUP01 (IAQ)	✓	1344	1259	>-30	-8	AA	JZ	6L	1789	0140	XX						have affected pressure readings
																		that not be indicative of actual
																		pressure.

*SAMPLE MATRIX CODES

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

Container Type

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

Relinquished By:

Date/Time

Received By:

Date/Time



ANALYTICAL REPORT

Lab Number:	L2316923
Client:	Castleton Environmental, Inc. 50 Park Avenue Babylon, NY 11702
ATTN:	Daren Murphy
Phone:	(631) 482-1818
Project Name:	TOMC2201
Project Number:	TOMC2201
Report Date:	04/26/23

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: TOMC2201
Project Number: TOMC2201

Lab Number: L2316923
Report Date: 04/26/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2316923-01	SSV04	SOIL_VAPOR	WESTBURY, NY	03/30/23 12:07	03/31/23
L2316923-02	IAQ04	AIR	WESTBURY, NY	03/30/23 12:05	03/31/23
L2316923-03	OAQ01	AIR	WESTBURY, NY	03/30/23 11:51	03/31/23

Project Name: TOMC2201
Project Number: TOMC2201

Lab Number: L2316923
Report Date: 04/26/23

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: TOMC2201**Lab Number:** L2316923**Project Number:** TOMC2201**Report Date:** 04/26/23**Case Narrative (continued)****Report Revision**

April 26, 2023 the report has been amended to report TO15 SIM data for the soil vapor sample at the request of the client.

Volatile Organics in Air

Canisters were released from the laboratory on March 28, 2023. The canister certification results are provided as an addendum.

L2316923-01D2: 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.

L2316923-01D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

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

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 04/26/23

AIR

Project Name: TOMC2201**Lab Number:** L2316923**Project Number:** TOMC2201**Report Date:** 04/26/23**SAMPLE RESULTS**

Lab ID: L2316923-01 D

Client ID: SSV04

Sample Location: WESTBURY, NY

Date Collected: 03/30/23 12:07

Date Received: 03/31/23

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 04/14/23 00:31

Analyst: RAY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	20.2	0.560	--	99.9	2.77	--		2.8
Chloromethane	ND	0.560	--	ND	1.16	--		2.8
Freon-114	ND	0.560	--	ND	3.91	--		2.8
Vinyl chloride	ND	0.560	--	ND	1.43	--		2.8
1,3-Butadiene	ND	0.560	--	ND	1.24	--		2.8
Bromomethane	ND	0.560	--	ND	2.17	--		2.8
Chloroethane	ND	0.560	--	ND	1.48	--		2.8
Ethanol	492	14.0	--	927	26.4	--		2.8
Vinyl bromide	ND	0.560	--	ND	2.45	--		2.8
Acetone	51.6	2.80	--	123	6.65	--		2.8
Trichlorofluoromethane	ND	0.560	--	ND	3.15	--		2.8
Isopropanol	1.46	1.40	--	3.59	3.44	--		2.8
1,1-Dichloroethene	ND	0.560	--	ND	2.22	--		2.8
Tertiary butyl Alcohol	323	1.40	--	979	4.24	--	E	2.8
Methylene chloride	ND	1.40	--	ND	4.86	--		2.8
3-Chloropropene	ND	0.560	--	ND	1.75	--		2.8
Carbon disulfide	ND	0.560	--	ND	1.74	--		2.8
Freon-113	ND	0.560	--	ND	4.29	--		2.8
trans-1,2-Dichloroethene	ND	0.560	--	ND	2.22	--		2.8
1,1-Dichloroethane	0.714	0.560	--	2.89	2.27	--		2.8
Methyl tert butyl ether	ND	0.560	--	ND	2.02	--		2.8
2-Butanone	2.99	1.40	--	8.82	4.13	--		2.8
cis-1,2-Dichloroethene	ND	0.560	--	ND	2.22	--		2.8



Project Name: TOMC2201**Lab Number:** L2316923**Project Number:** TOMC2201**Report Date:** 04/26/23**SAMPLE RESULTS**

Lab ID: L2316923-01 D

Client ID: SSV04

Sample Location: WESTBURY, NY

Date Collected: 03/30/23 12:07

Date Received: 03/31/23

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	1.40	--	ND	5.05	--		2.8
Chloroform	ND	0.560	--	ND	2.73	--		2.8
Tetrahydrofuran	ND	1.40	--	ND	4.13	--		2.8
1,2-Dichloroethane	ND	0.560	--	ND	2.27	--		2.8
n-Hexane	0.568	0.560	--	2.00	1.97	--		2.8
1,1,1-Trichloroethane	27.8	0.560	--	152	3.06	--		2.8
Benzene	0.686	0.560	--	2.19	1.79	--		2.8
Carbon tetrachloride	ND	0.560	--	ND	3.52	--		2.8
Cyclohexane	ND	0.560	--	ND	1.93	--		2.8
1,2-Dichloropropane	ND	0.560	--	ND	2.59	--		2.8
Bromodichloromethane	ND	0.560	--	ND	3.75	--		2.8
1,4-Dioxane	ND	0.560	--	ND	2.02	--		2.8
Trichloroethene	1.52	0.560	--	8.17	3.01	--		2.8
2,2,4-Trimethylpentane	10.2	0.560	--	47.6	2.62	--		2.8
Heptane	ND	0.560	--	ND	2.29	--		2.8
cis-1,3-Dichloropropene	ND	0.560	--	ND	2.54	--		2.8
4-Methyl-2-pentanone	ND	1.40	--	ND	5.74	--		2.8
trans-1,3-Dichloropropene	ND	0.560	--	ND	2.54	--		2.8
1,1,2-Trichloroethane	ND	0.560	--	ND	3.06	--		2.8
Toluene	ND	0.560	--	ND	2.11	--		2.8
2-Hexanone	3.18	0.560	--	13.0	2.29	--		2.8
Dibromochloromethane	ND	0.560	--	ND	4.77	--		2.8
1,2-Dibromoethane	ND	0.560	--	ND	4.30	--		2.8
Tetrachloroethene	73.1	0.560	--	496	3.80	--		2.8
Chlorobenzene	ND	0.560	--	ND	2.58	--		2.8
Ethylbenzene	ND	0.560	--	ND	2.43	--		2.8



Project Name: TOMC2201**Lab Number:** L2316923**Project Number:** TOMC2201**Report Date:** 04/26/23**SAMPLE RESULTS**

Lab ID: L2316923-01 D

Client ID: SSV04

Sample Location: WESTBURY, NY

Date Collected: 03/30/23 12:07

Date Received: 03/31/23

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	1.12	--	ND	4.86	--		2.8
Bromoform	ND	0.560	--	ND	5.79	--		2.8
Styrene	ND	0.560	--	ND	2.38	--		2.8
1,1,2,2-Tetrachloroethane	ND	0.560	--	ND	3.85	--		2.8
o-Xylene	ND	0.560	--	ND	2.43	--		2.8
4-Ethyltoluene	ND	0.560	--	ND	2.75	--		2.8
1,3,5-Trimethylbenzene	ND	0.560	--	ND	2.75	--		2.8
1,2,4-Trimethylbenzene	ND	0.560	--	ND	2.75	--		2.8
Benzyl chloride	ND	0.560	--	ND	2.90	--		2.8
1,3-Dichlorobenzene	ND	0.560	--	ND	3.37	--		2.8
1,4-Dichlorobenzene	ND	0.560	--	ND	3.37	--		2.8
1,2-Dichlorobenzene	ND	0.560	--	ND	3.37	--		2.8
1,2,4-Trichlorobenzene	ND	0.560	--	ND	4.16	--		2.8
Hexachlorobutadiene	ND	0.560	--	ND	5.97	--		2.8

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	100		60-140



Project Name: TOMC2201**Lab Number:** L2316923**Project Number:** TOMC2201**Report Date:** 04/26/23**SAMPLE RESULTS**

Lab ID: L2316923-01 D

Client ID: SSV04

Sample Location: WESTBURY, NY

Date Collected: 03/30/23 12:07

Date Received: 03/31/23

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 04/14/23 00:31

Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.056	--	ND	0.143	--		2.8
1,1-Dichloroethene	ND	0.056	--	ND	0.222	--		2.8
cis-1,2-Dichloroethene	ND	0.056	--	ND	0.222	--		2.8
1,1,1-Trichloroethane	26.0	0.056	--	142	0.306	--		2.8
Carbon tetrachloride	0.059	0.056	--	0.370	0.352	--		2.8
Trichloroethene	1.39	0.056	--	7.47	0.301	--		2.8
Tetrachloroethene	67.1	0.056	--	455	0.380	--		2.8

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	103		60-140

Project Name: TOMC2201**Lab Number:** L2316923**Project Number:** TOMC2201**Report Date:** 04/26/23**SAMPLE RESULTS**

Lab ID: L2316923-01 D2

Client ID: SSV04

Sample Location: WESTBURY, NY

Date Collected: 03/30/23 12:07

Date Received: 03/31/23

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 04/14/23 09:59

Analyst: RAY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	322	3.32	--	976	10.1	--		6.649

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	89		60-140



Project Name: TOMC2201**Lab Number:** L2316923**Project Number:** TOMC2201**Report Date:** 04/26/23**SAMPLE RESULTS**

Lab ID: L2316923-02
 Client ID: IAQ04
 Sample Location: WESTBURY, NY

Date Collected: 03/30/23 12:05
 Date Received: 03/31/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/13/23 20:40
 Analyst: RAY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	13.0	0.200	--	64.3	0.989	--		1
Chloromethane	0.596	0.200	--	1.23	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	272	5.00	--	513	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	20.6	1.00	--	48.9	2.38	--		1
Trichlorofluoromethane	0.237	0.200	--	1.33	1.12	--		1
Isopropanol	21.5	0.500	--	52.8	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	0.875	0.500	--	2.58	1.47	--		1
Ethyl Acetate	0.525	0.500	--	1.89	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



Project Name: TOMC2201**Lab Number:** L2316923**Project Number:** TOMC2201**Report Date:** 04/26/23**SAMPLE RESULTS**

Lab ID: L2316923-02
 Client ID: IAQ04
 Sample Location: WESTBURY, NY

Date Collected: 03/30/23 12:05
 Date Received: 03/31/23
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.579	0.200	--	2.04	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	0.361	0.200	--	1.48	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	1.15	0.500	--	4.71	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	0.999	0.200	--	3.76	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	0.509	0.200	--	2.21	0.869	--		1
p/m-Xylene	2.02	0.400	--	8.77	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.723	0.200	--	3.14	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: TOMC2201**Lab Number:** L2316923**Project Number:** TOMC2201**Report Date:** 04/26/23**SAMPLE RESULTS**

Lab ID: L2316923-02
 Client ID: IAQ04
 Sample Location: WESTBURY, NY

Date Collected: 03/30/23 12:05
 Date Received: 03/31/23
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	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	95		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	97		60-140



Project Name: TOMC2201**Lab Number:** L2316923**Project Number:** TOMC2201**Report Date:** 04/26/23**SAMPLE RESULTS**

Lab ID: L2316923-02
 Client ID: IAQ04
 Sample Location: WESTBURY, NY

Date Collected: 03/30/23 12:05
 Date Received: 03/31/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/13/23 20:40
 Analyst: RAY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.167	0.020	--	1.05	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.074	0.020	--	0.502	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	100		60-140



Project Name: TOMC2201**Lab Number:** L2316923**Project Number:** TOMC2201**Report Date:** 04/26/23**SAMPLE RESULTS**

Lab ID: L2316923-03
 Client ID: OAQ01
 Sample Location: WESTBURY, NY

Date Collected: 03/30/23 11:51
 Date Received: 03/31/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/13/23 19:56
 Analyst: RAY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.542	0.200	--	2.68	0.989	--		1
Chloromethane	0.730	0.200	--	1.51	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	67.9	5.00	--	128	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	40.3	1.00	--	95.7	2.38	--		1
Trichlorofluoromethane	0.233	0.200	--	1.31	1.12	--		1
Isopropanol	1.19	0.500	--	2.93	1.23	--		1
Tertiary butyl Alcohol	23.3	0.500	--	70.6	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	1.82	0.500	--	5.37	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: TOMC2201**Lab Number:** L2316923**Project Number:** TOMC2201**Report Date:** 04/26/23**SAMPLE RESULTS**

Lab ID: L2316923-03
 Client ID: OAQ01
 Sample Location: WESTBURY, NY

Date Collected: 03/30/23 11:51
 Date Received: 03/31/23
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	0.337	0.200	--	1.08	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	0.522	0.500	--	2.14	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
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
1,1,1,2-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: TOMC2201**Lab Number:** L2316923**Project Number:** TOMC2201**Report Date:** 04/26/23**SAMPLE RESULTS**

Lab ID: L2316923-03
 Client ID: OAQ01
 Sample Location: WESTBURY, NY

Date Collected: 03/30/23 11:51
 Date Received: 03/31/23
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	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	96		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	95		60-140



Project Name: TOMC2201**Lab Number:** L2316923**Project Number:** TOMC2201**Report Date:** 04/26/23**SAMPLE RESULTS**

Lab ID: L2316923-03
 Client ID: OAQ01
 Sample Location: WESTBURY, NY

Date Collected: 03/30/23 11:51
 Date Received: 03/31/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/13/23 19:56
 Analyst: RAY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	0.024	0.020	--	0.061	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	0.083	0.020	--	0.522	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	99		60-140



Project Name: TOMC2201

Lab Number: L2316923

Project Number: TOMC2201

Report Date: 04/26/23

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/13/23 17:51

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1766472-4								
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: TOMC2201

Lab Number: L2316923

Project Number: TOMC2201

Report Date: 04/26/23

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/13/23 17:51

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1766472-4								
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: TOMC2201

Lab Number: L2316923

Project Number: TOMC2201

Report Date: 04/26/23

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/13/23 17:51

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1766472-4								
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

Project Name: TOMC2201

Lab Number: L2316923

Project Number: TOMC2201

Report Date: 04/26/23

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 04/13/23 17:51

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-03 Batch: WG1766473-4								
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

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMC2201

Project Number: TOMC2201

Lab Number: L2316923

Report Date: 04/26/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1766472-3								
Dichlorodifluoromethane	100		-		70-130	-		
Chloromethane	92		-		70-130	-		
Freon-114	99		-		70-130	-		
Vinyl chloride	97		-		70-130	-		
1,3-Butadiene	101		-		70-130	-		
Bromomethane	98		-		70-130	-		
Chloroethane	94		-		70-130	-		
Ethanol	100		-		40-160	-		
Vinyl bromide	94		-		70-130	-		
Acetone	85		-		40-160	-		
Trichlorofluoromethane	106		-		70-130	-		
Isopropanol	98		-		40-160	-		
1,1-Dichloroethene	99		-		70-130	-		
Tertiary butyl Alcohol	107		-		70-130	-		
Methylene chloride	99		-		70-130	-		
3-Chloropropene	99		-		70-130	-		
Carbon disulfide	89		-		70-130	-		
Freon-113	100		-		70-130	-		
trans-1,2-Dichloroethene	93		-		70-130	-		
1,1-Dichloroethane	96		-		70-130	-		
Methyl tert butyl ether	99		-		70-130	-		
2-Butanone	92		-		70-130	-		
cis-1,2-Dichloroethene	98		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMC2201

Project Number: TOMC2201

Lab Number: L2316923

Report Date: 04/26/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1766472-3								
Ethyl Acetate	99		-		70-130	-		
Chloroform	104		-		70-130	-		
Tetrahydrofuran	92		-		70-130	-		
1,2-Dichloroethane	104		-		70-130	-		
n-Hexane	100		-		70-130	-		
1,1,1-Trichloroethane	102		-		70-130	-		
Benzene	94		-		70-130	-		
Carbon tetrachloride	116		-		70-130	-		
Cyclohexane	100		-		70-130	-		
1,2-Dichloropropane	98		-		70-130	-		
Bromodichloromethane	107		-		70-130	-		
1,4-Dioxane	103		-		70-130	-		
Trichloroethene	104		-		70-130	-		
2,2,4-Trimethylpentane	103		-		70-130	-		
Heptane	100		-		70-130	-		
cis-1,3-Dichloropropene	110		-		70-130	-		
4-Methyl-2-pentanone	107		-		70-130	-		
trans-1,3-Dichloropropene	97		-		70-130	-		
1,1,2-Trichloroethane	106		-		70-130	-		
Toluene	94		-		70-130	-		
2-Hexanone	101		-		70-130	-		
Dibromochloromethane	105		-		70-130	-		
1,2-Dibromoethane	98		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMC2201

Project Number: TOMC2201

Lab Number: L2316923

Report Date: 04/26/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1766472-3								
Tetrachloroethene	96		-		70-130	-		
Chlorobenzene	98		-		70-130	-		
Ethylbenzene	102		-		70-130	-		
p/m-Xylene	102		-		70-130	-		
Bromoform	110		-		70-130	-		
Styrene	100		-		70-130	-		
1,1,2,2-Tetrachloroethane	100		-		70-130	-		
o-Xylene	105		-		70-130	-		
4-Ethyltoluene	101		-		70-130	-		
1,3,5-Trimethylbenzene	96		-		70-130	-		
1,2,4-Trimethylbenzene	105		-		70-130	-		
Benzyl chloride	118		-		70-130	-		
1,3-Dichlorobenzene	100		-		70-130	-		
1,4-Dichlorobenzene	101		-		70-130	-		
1,2-Dichlorobenzene	98		-		70-130	-		
1,2,4-Trichlorobenzene	96		-		70-130	-		
Hexachlorobutadiene	101		-		70-130	-		

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMC2201

Project Number: TOMC2201

Lab Number: L2316923

Report Date: 04/26/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-03 Batch: WG1766473-3								
Vinyl chloride	92		-		70-130	-		25
1,1-Dichloroethene	94		-		70-130	-		25
cis-1,2-Dichloroethene	96		-		70-130	-		25
1,1,1-Trichloroethane	94		-		70-130	-		25
Carbon tetrachloride	102		-		70-130	-		25
Trichloroethene	94		-		70-130	-		25
Tetrachloroethene	95		-		70-130	-		25

Project Name: TOMC2201

Project Number: TOMC2201

Serial_No:04262309:57
Lab Number: L2316923

Report Date: 04/26/23

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2316923-01	SSV04	01186	Flow 5	03/28/23	417898		-	-	-	Pass	3.0	2.8	7
L2316923-01	SSV04	2681	6.0L Can	03/28/23	417898	L2315553-08	Pass	-29.8	-10.6	-	-	-	-
L2316923-02	IAQ04	01433	Flow 5	03/28/23	417898		-	-	-	Pass	3.0	3.0	0
L2316923-02	IAQ04	3343	6.0L Can	03/28/23	417898	L2315553-09	Pass	-29.8	-11.4	-	-	-	-
L2316923-03	OAQ01	01301	Flow 5	03/28/23	417898		-	-	-	Pass	3.0	2.7	11
L2316923-03	OAQ01	3120	6.0L Can	03/28/23	417898	L2315553-08	Pass	-29.8	-9.0	-	-	-	-

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

Lab Number: L2315553
Report Date: 04/26/23

Air Canister Certification Results

Lab ID: L2315553-08
Client ID: CAN 2665 SHELF 35
Sample Location:

Date Collected: 03/24/23 10:00
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 03/25/23 23:04
Analyst: NFL

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



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

Lab Number: L2315553
Report Date: 04/26/23

Air Canister Certification Results

Lab ID: L2315553-08
Client ID: CAN 2665 SHELF 35
Sample Location:

Date Collected: 03/24/23 10:00
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		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
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		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: L2315553
Report Date: 04/26/23

Air Canister Certification Results

Lab ID: L2315553-08
Client ID: CAN 2665 SHELF 35
Sample Location:

Date Collected: 03/24/23 10:00
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:

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



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

Lab Number: L2315553
Report Date: 04/26/23

Air Canister Certification Results

Lab ID: L2315553-08
Client ID: CAN 2665 SHELF 35
Sample Location:

Date Collected: 03/24/23 10:00
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,3-Trimethylbenzene	ND	0.200	--	ND	0.983	--		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



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

Lab Number: L2315553
Report Date: 04/26/23

Air Canister Certification Results

Lab ID: L2315553-08
 Client ID: CAN 2665 SHELF 35
 Sample Location:

Date Collected: 03/24/23 10:00
 Date Received: 03/24/23
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	91		60-140

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

Lab Number: L2315553
Report Date: 04/26/23

Air Canister Certification Results

Lab ID: L2315553-08
Client ID: CAN 2665 SHELF 35
Sample Location:

Date Collected: 03/24/23 10:00
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 03/25/23 23:04
Analyst: NFL

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



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

Lab Number: L2315553
Report Date: 04/26/23

Air Canister Certification Results

Lab ID: L2315553-08
Client ID: CAN 2665 SHELF 35
Sample Location:

Date Collected: 03/24/23 10:00
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	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
1,1,1,2,2-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	0.100	--	ND	0.518	--		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:** L2315553**Project Number:** CANISTER QC BAT**Report Date:** 04/26/23**Air Canister Certification Results**

Lab ID: L2315553-08

Date Collected: 03/24/23 10:00

Client ID: CAN 2665 SHELF 35

Date Received: 03/24/23

Sample Location:

Field Prep: Not Specified

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	95		60-140



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

Lab Number: L2315553
Report Date: 04/26/23

Air Canister Certification Results

Lab ID: L2315553-09
Client ID: CAN 2772 SHELF 36
Sample Location:

Date Collected: 03/24/23 10:00
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 03/25/23 23:43
Analyst: NFL

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



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

Lab Number: L2315553
Report Date: 04/26/23

Air Canister Certification Results

Lab ID: L2315553-09
Client ID: CAN 2772 SHELF 36
Sample Location:

Date Collected: 03/24/23 10:00
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		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
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		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: L2315553
Report Date: 04/26/23

Air Canister Certification Results

Lab ID: L2315553-09
Client ID: CAN 2772 SHELF 36
Sample Location:

Date Collected: 03/24/23 10:00
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:

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



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

Lab Number: L2315553
Report Date: 04/26/23

Air Canister Certification Results

Lab ID: L2315553-09
Client ID: CAN 2772 SHELF 36
Sample Location:

Date Collected: 03/24/23 10:00
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,3-Trimethylbenzene	ND	0.200	--	ND	0.983	--		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



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2315553**Project Number:** CANISTER QC BAT**Report Date:** 04/26/23**Air Canister Certification Results**

Lab ID: L2315553-09

Date Collected: 03/24/23 10:00

Client ID: CAN 2772 SHELF 36

Date Received: 03/24/23

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	92		60-140

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

Lab Number: L2315553
Report Date: 04/26/23

Air Canister Certification Results

Lab ID: L2315553-09
Client ID: CAN 2772 SHELF 36
Sample Location:

Date Collected: 03/24/23 10:00
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 03/25/23 23:43
Analyst: NFL

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



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

Lab Number: L2315553
Report Date: 04/26/23

Air Canister Certification Results

Lab ID: L2315553-09
Client ID: CAN 2772 SHELF 36
Sample Location:

Date Collected: 03/24/23 10:00
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	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
1,1,1,2,2-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	0.100	--	ND	0.518	--		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:** L2315553**Project Number:** CANISTER QC BAT**Report Date:** 04/26/23**Air Canister Certification Results**

Lab ID: L2315553-09

Date Collected: 03/24/23 10:00

Client ID: CAN 2772 SHELF 36

Date Received: 03/24/23

Sample Location:

Field Prep: Not Specified

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	101		60-140
chlorobenzene-d5	95		60-140



Project Name: TOMC2201
Project Number: TOMC2201

Serial_No:04262309:57
Lab Number: L2316923
Report Date: 04/26/23

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
N/A	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2316923-01A	Canister - 6 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2316923-02A	Canister - 6 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2316923-03A	Canister - 6 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)

Project Name: TOMC2201
Project Number: TOMC2201

Lab Number: L2316923
Report Date: 04/26/23

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: TOMC2201
Project Number: TOMC2201

Lab Number: L2316923
Report Date: 04/26/23

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: TOMC2201
Project Number: TOMC2201

Lab Number: L2316923
Report Date: 04/26/23

Data Qualifiers

- 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 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.)

Project Name: TOMC2201
Project Number: TOMC2201

Lab Number: L2316923
Report Date: 04/26/23

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, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

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

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

CHAIN OF CUSTODY

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

PAGE 1 OF 1

Date Rec'd in Lab: 4/1/23

ALPHA Job #: L2316923

Client Information

Client: Cattledon Env.
Address: 50 Park Ave.
Babylon, N.Y. 11702
Phone: 631-482-1818

Fax:

Email: Daren M@castletoned.v.com ☒ State

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:	Date
---	------

Project-Specific Target Compound List: ☐

Project Information

Project Name: TOWC2201
Project Location: Westbury, NY.
Project #: TOWC2201
Project Manager: Doreen Murphy
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: _____ Time: _____

Report Information - Data Deliverables

☐ FAX
☒ ADEx

Criteria Checker:

(Default based on Regulatory Criteria Indicated)

Other Formats: Excel

☒ EMAIL (standard pdf report)

 Additional Deliverables:

NY ASP B Package

Report to: (if different than Project Manager)

Billing Information

☒ Same as Client info	PO #:
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Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm
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ANALYSIS

TO-15
TO-15 SIM
APH
Fixed Gases
Sulfides & Mercaptans by TO-15 ☒

All Columns Below Must Be Filled Out

[illegible]

*SAMPLE MATRIX CODES

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

Container Type

Relinquished By:

Date/Time

Received By:

Date/Time:

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



APPENDIX G

Matrix A

 Carbon tetrachloride, 1,1-dichloroethene, *cis*-1,2-dichloroethene, trichloroethene

Sub Slab Vapor Conc (ug/m ³)		Indoor Air Concentration (ug/m ³)		
		<0.2	0.2 to <1	1 and Above
	Result			
<6		No Further Action	No further Action	Identify Source(s) and Resample or Mitigate
6 to <60		No Further Action	Monitor	Mitigate
60 and above		Mitigate	Mitigate	Mitigate

Matrix B

Methylene Chloride, tetrachloroethene, 1,1,1-trichloroethane

Sub Slab Vapor Conc (ug/m ³)		Indoor Air Concentration (ug/m ³)		
		<3	3 to <10	10 and Above
	Result			
<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 and above		Mitigate	Mitigate	Mitigate

Matrix C

Vinyl Chloride

Sub Slab Vapor Conc (ug/m ³) - PCE		Indoor Air Concentration (ug/m ³)	
		<0.2	0.2 and Above
	Result		
<6		No Further Action	Identify Source(s) and Resample or Mitigate
6 to <60		Monitor	Mitigate
60 and above		Mitigate	Mitigate