AECOM Environment

Prepared for:
NYSDEC
Albany, NY

Prepared by:
AECOM
Latham, NY
60273289
August 2022

March 2022 Soil Vapor Intrusion Sampling Event Summary Report

Korkay, Inc.
Site No. 5-18-014
Work Assignment No. D009803-17

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Acronyms and Abbreviations

COCs	Site Contaminants of Concern
DUSR	Data Usability Summary Report
ISCO	*In Situ* Chemical Oxidation
Korkay	Korkay, Incorporated
NYSDEC	New York State Department of Conservation
NYSDOH	New York State Department of Health
PCE	Tetrachloroethylene
ROD	Record of Decision
SVE	Soil Vapor Extraction
SVI	Soil Vapor Intrusion
SVOCs	Semi-Volatile Organic Compounds
TVOCs	Total Volatile Organic Compounds
µg/M^3	Micrograms per cubic meter
USEPA	United States Environmental Protection Agency
VOCs	Volatile Organic Compounds

1.0 Introduction

This report documents the soil vapor intrusion (SVI) sampling event conducted in March 2022 at the Korkay Inc. Site (Site No. 5-18-014), located at 70 West Main Street in the Village of Broadalbin, Fulton County, New York (Figure 1). The sampling was conducted for Work Assignment No. D009803-17 of the State Superfund Standby Contract between the New York State Department of Environmental Conservation (NYSDEC) and AECOM USA, Inc. (AECOM).

The SVI sampling event was performed at the request of NYSDEC and the New York State Department of Health (NYSDOH) to evaluate if volatile organic compound (VOC) contamination in groundwater at the Korkay Inc. site (Site) is impacting the sub-slab soil vapor and/or indoor air of nearby residential and commercial structures. This SVI sampling event generally repeated two similar events completed in March 2017 and March 2019. As part of this 2022 event, SVI sampling was conducted at four (4) structures which are located adjacent to or in the immediate vicinity of the Korkay Site. A Site Plan (Figure 2) shows the Korkay Site and surrounding area. This report describes the SVI sampling event and presents and interprets analytical results for the sampling.

2.0 Project Background

Korkay, Inc. was a supplier of detergents, solvents, and degreasers to the automotive industry from 1969 to 1980. Releases of chemicals at the Site contaminated soil and groundwater. Site Contaminants of Concern (COCs) in soil and groundwater as identified in the Site Record of Decision (ROD) include various volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and pesticides. Remedial actions undertaken in accordance with the ROD by NYSDEC and NYSDOH included the excavation and removal of contaminated surface soil, air sparging, combined with soil vapor extraction (SVE), imposition of deed restrictions and Site environmental monitoring. These actions were found to have been somewhat effective in reducing Site contamination, although subsurface soil and groundwater impacts still exist.

Groundwater investigations were conducted at the Site in July 2014 and August 2015 using direct-push drilling technology with the collection and analysis of grab groundwater samples. The purpose of the investigations was to further delineate and characterize on-Site and off-Site dissolved-phase groundwater impacts. In September 2015, 8 new monitoring wells (MW-17 through MW-24) were installed to aid in monitoring the nature and extent of groundwater impacts on and off Site.

A supplemental remedial action, consisting of in-situ chemical oxidation (ISCO) injection, was conducted in October 2015. The purpose of the ISCO injection was to attempt to further remediate residual soil and groundwater contamination to meet the remedial goals established for the Site. The remediation included the installation of 95 injection points. The points were installed with a direct push Geoprobe® unit. The oxidant that was used was activated persulfate, specifically, PersulfOx® from Regenesis Remediation Services. This oxidant has been shown to effectively reduce VOC mass, and has been shown to degrade some pesticides as well. PersulfOx® is a catalyzed persulfate which does not require any additional activation. The PersulfOx® was applied concurrently with oxygen release compound Advanced (ORC-A®), a product that provides a sustained release of oxygen which will allow for polishing of COCs through aerobic bioremediation.

Between October 2015 and June 2017, eight (8) groundwater sampling events were conducted at the Site to evaluate the effects of the ISCO remedial action performed in October 2015. From the results of those sampling events it was concluded that the lateral extent of significant TVOC plume concentrations (i.e., greater than 1,000 µg/L) decreased following the ISCO treatment, however the concentration in the former source area in the southwest quadrant of the Site was found to remain relatively static and significantly above AWQS.

In March 2017, a NYSDEC Callout contractor (Aztech Technologies) completed soil vapor intrusion sampling at seven (7) structures located adjacent to or in the immediate vicinity of the Site. The results of that sampling event were presented in the Soil Vapor Intrusion Summary Report (Aztech, 2017). Based on a comparison of the sampling results to the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006) decision matrices, recommendations were provided to implement mitigation actions at one structure and to monitor another structure.

In March 2019, AECOM completed soil vapor intrusion sampling at six (6) structures located adjacent to or in the immediate vicinity of the Site. The results of that sampling event were presented in the March 2019 Soil Vapor Intrusion Sampling Event Summary Report (AECOM, 2019). Based on a comparison of the sampling results to the NYSDOH decision matrices (NYSDOH, 2017), recommendations were provided to identify the sources of methylene chloride in the basement of one structure and then resample or mitigate the structure.

In May 2019, AECOM conducted a groundwater sampling event where all twenty monitoring wells were sampled. Groundwater samples were analyzed for VOCs, SVOCs, organochlorine pesticides, and Per- and Polyfluoroalkyl Substances (PFAS). Samples from four wells located directly downgradient of the Site were also analyzed for 1,4-Dioxane at this time.

In June 2021, AECOM conducted a groundwater sampling event where all twenty monitoring wells and sediment in Kennyetto Creek were sampled. Groundwater and surface water samples were analyzed for VOCs, SVOCs, organochlorine pesticides, Per- and Polyfluoroalkyl Substances, and 1,4-Dioxane. The sediment samples from Kennyetto Creek were analyzed for VOCs, SVOCs, and organochlorine pesticides.

3.0 Scope of Work

The purpose of the SVI sampling event was to collect and evaluate air sample data for indications that VOC contamination in groundwater at the Korkay Site may pose a threat to the indoor air quality of residences and businesses adjacent to the site, via a soil vapor intrusion migration pathway. This sampling event was completed in March 2022. This March 2022 event was intended to generally duplicate the events completed in March 2017 and March 2019; however, Structures 1 and 6 were inaccessible during the March 2022 sampling event and therefore were not sampled.

The SVI sampling event included:

- Collecting basement sub-slab soil vapor, basement and/or first floor indoor air, and ambient outdoor air samples;
- Interviewing property owners and completing NYSDOH Indoor Air Quality and Building Inventory questionnaires for each structure;
- Laboratory analysis and data quality review;
- Sample data review and preparation of this summary report to document the results of the sampling event.

4.0 Methodology

The four structures that were sampled during this event are located adjacent to or in the immediate vicinity of the Korkay Site, and VOC impacted groundwater associated with the Korkay Site. The sampling event was completed March 29 - 30, 2022. All sampling was conducted in accordance with the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, (NYSDOH, 2006), and the most recently updated soil vapor intrusion decision matrices (NYSDOH, 2017).

As previously described, soil vapor intrusion sampling was conducted at four residential or commercial structures. The laboratory analytical results and building inventory questionnaires from the sampling event were provided separately to NYSDEC and NYSDOH so that they could determine an appropriate course of action for each structure, if necessary, in consultation with the property owners. To maintain the confidentiality of the private property owners where the sampling was conducted, the four sampling locations are presented in this report with the following anonymous location identifications:

- Structure 2
- Structure 3
- Structure 4
- Structure 5

Also in this report, all air sample ID numbers in the laboratory analytical report and the data usability summary report, and the property address information on the NYSDOH building questionnaires have been redacted to use the above Structure number identifications.

The goal of the sampling event was to collect basement sub-slab soil vapor and indoor air samples at all structures. A sub-slab soil vapor sample could not be collected at Structure 3 because there was no basement floor slab. At this location two indoor air samples (one basement and one first floor) were collected. One sub-slab soil vapor and one indoor air sample were collected at Structures 2 and 5. Four indoor air samples were collected at Structure 4, due to the size and distribution of interior rooms. A sub-slab soil vapor sample could not be collected at Structure 4 because water was drawn into the sample regulator due to the high groundwater conditions. Outdoor ambient air samples were collected to evaluate background conditions at each structure except for Structure 5. The outdoor air sample collected at Structure 4 is considered to be a representative of background air quality for the sampling completed at Structure 5, as the two structures were sampled over the same period (March 29 - 30, 2022).

All soil vapor and air samples were collected using laboratory batch certified six-liter Summa® canisters equipped with laboratory-calibrated flow regulator valves to collect the samples over a 24-hour period. One quality assurance/quality control sample was collected during the sampling event; a duplicate sample was collected with indoor air sample IA-2 at Structure 3. Upon collection, the soil vapor and air samples were submitted to ConTest Laboratories Longmeadow, MA laboratory for analysis of VOC's by EPA Method TO-15.

ConTest generated a United States Environmental Protection Agency (USEPA) Level IV report and NYSDEC EQuIS® electronic data deliverable file for the SVI sample results. Environmental Data Services, an AECOM Standby contractor, evaluated the laboratory report and prepared a Data Usability Summary Report (DUSR) to determine whether or not the data meets the project criteria for data quality and usability.

5.0 Results

Table 1 provides a summary of the soil vapor and air sample laboratory TO-15 analytical results. The laboratory analytical report and the DUSR are included in Appendix A. The DUSR reported the laboratory report to be a complete Category B data package as defined under the requirements for the NYSDEC Analytical Services Protocol, and there were no rejections of data. The building inventory questionnaires are included in Appendix B. As noted previously, the sample identification numbers and property address information in the laboratory report, DUSR, building inventory questionnaires, and Table 1, have been redacted with the structure identification numbers listed in Section 4.

Comparison of the analytical results (Table 1) to the guidance criteria (NYSDOH, 2017) show that except for Structure 5, none of the sample results meet NYSDOH decision matrix criteria for further action. For Structure 5, the laboratory reported a detection of tetrachloroethylene (PCE) at a concentration of 1,100 µg/m^3 in sample SS1 (sub-slab soil vapor) and 48 µg/m^3 in sample IA1 (indoor air). These sample results meet the NYSDOH guidance criteria to warrant implementation of mitigation measures (i.e., Matrix B compounds in sub-slab soil vapor above 1,000 µg/m^3, regardless of indoor air concentration).

6.0 Conclusions

Based on the comparison of the soil vapor intrusion laboratory analytical results to the NYSDOH decision matrices, AECOM concludes that:

- Consideration should be given to implement soil vapor intrusion mitigation measures in Structure 5 to address the detected PCE concentrations in the sub-slab soil vapor. It should be noted that historical groundwater monitoring at the Korkay Site indicates VOC impacts in groundwater do not extend beneath Structure 5, and PCE (or other target VOCs) have generally not been detected in shallow groundwater monitoring well MW-8S, located near Structure 5. Based on this, the PCE detected in the Structure 5 sub-slab soil vapor and indoor air samples may reflect on-going operations at this location and not impact from the Korkay Site.
- No other actions are necessary at this time.

7.0 References

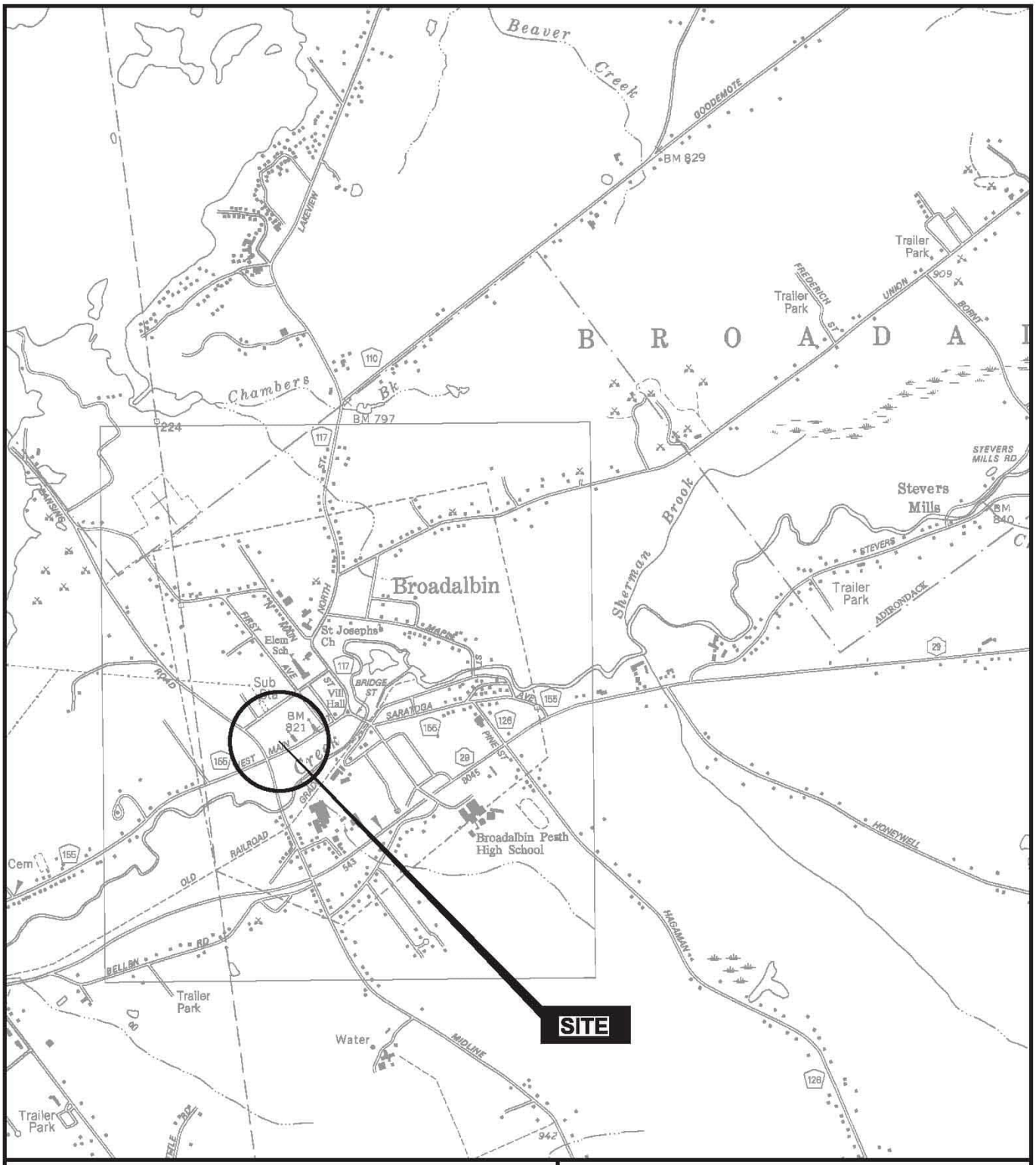
AECOM, 2019 March 2019 Soil Vapor Intrusion Sampling Event Summary Report. July.

Aztech, 2017 Soil Vapor Intrusion Summary Report. July.

NYSDOH, 2006 New York State Department of Health (NYSDOH). Guidance for Evaluating Soil Vapor Intrusion in the State of New York. October.

NYSDOH, 2017 New York State Department of Health (NYSDOH). Updates to Soil Vapor/Indoor Air Decision Matrices. May.

Figures



MAP REFERENCE: NYSDOT 7.5 MIN. QUADRANGLE
BROADALBIN SERIES

PLAN

NORTH

Scale in Feet

0 1000' 2000'

AECOM

FIGURE 1

SITE LOCATION PLAN
NYSDEC SITE ID: 5-18-014

KORKAY INC.

70 WEST MAIN STREET
BROADALBIN, NEW YORK

DATE: OCTOBER 2013 | PROJECT NO.: 60273289

Project Management Initials: Designer: Checked: Approved: ANSI B 11" x 17"

LEGEND

- SITE PROPERTY LINE
- PROPERTY LINE
- DEED DIVISION LINE
- CHAIN LINK FENCE LINE
- 816 TOPOGRAPHY (1 FT.)
- CATCH BASIN
- UTILITY POLE
- LIGHT POLE
- SEWER MANHOLE
- WATER VALVE
- ELECTRIC METER
- GUY ANCHOR
- MW-18 MONITORING WELL

0 60' 120'

MAP REFERENCE:
MAPPING BASED ON A PLAN TITLED TOPOGRAPHIC SURVEY OF
NYSDEC INACTIVE HAZARDOUS WASTE SITE NO. 5-18-014
70 WEST MAIN STREET, BROADALBIN, NEW YORK
COUNTY OF FULTON, STATE OF NEW YORK BY, M J ENGINEERING,
AND LAND SURVEYING, P.C., DATED SEPTEMBER 10 2015, LAST REVISED
11/13/2015, INCLUDING ALL NOTES AND REFERENCES THEREIN.

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Figure: 02

SITE PLAN

KORKAY INC.
NYSDEC SITE ID: 518014
BROADALBIN, NEW YORK
Project No.: 60273289 Date: JANUARY 2017

Last saved by: MEISTERK(2017-01-20) Last Plotted: 2017-01-20
Filename: C:_AECOM-WORKING\TEMP-CAD\TEMP-KORKAY\KORKAY-GW-DEC_6_2016.DWG

Tables

Table 1
Soil Vapor/Indoor Air Analytical Data - VOCs
Korkay, Inc. Site (#518014)
Broadalbin, NY
March, 2022

	Sample Location	Structure 2						Structure 3							
	Sample Date	03/30/22						03/30/22							
	Sample ID	Structure 2 SS1		Structure 2 IA1		Structure 2 OA1		Structure 3 IA1		Structure 3 IA2		Structure 3 DUP		Structure 3 OA1	
VOC (µg/m³)	**CAS No.**														
NYSDOH Matrix A Compounds															
Trichloroethylene	79-01-6	<1.1	U	<0.19	U	<0.19	U	0.87		<0.19	U	<0.19	U	0.37	
cis-1,2-Dichloroethylene	156-59-2	<0.79	U	<0.14	U	<0.14	U	<0.14	U	<0.14	U	<0.14	U	<0.14	U
1,1-Dichloroethylene	75-35-4	<0.79	U	<0.14	U	<0.14	U	<0.14	U	<0.14	U	<0.14	U	<0.14	U
Carbon Tetrachloride	56-23-5	<1.3	U	0.42		0.44		0.36		0.40		0.35		0.47	
NYSDOH Matrix B Compounds															
Tetrachloroethylene	127-18-4	<1.4	U	0.35		<0.24	U	0.20	J	0.18	J	0.19	J	<0.24	U
1,1,1-Trichloroethane	71-55-6	<1.1	U	<0.19	U	<0.19	U	<0.19	U	<0.19	U	<0.19	U	<0.19	U
Methylene Chloride	75-09-2	<6.9	U	1.4		1.1	J	1.2	J	0.60	J	0.65	J	0.87	J
NYSDOH Matrix C Compounds															
Vinyl Chloride	75-01-4	<0.51	U	<0.089	U	<0.089	U	<0.089	U	<0.089	U	<0.089	U	<0.089	U
Other Compounds															
Acetone		120		30		7.0		7.4		4.4		5.8		3.5	
Benzene	71-43-2	2.0		2.4		0.58		1.3		1.4		1.3		0.46	
Benzyl chloride	100-44-7	<1.0	U	<0.36	U J	<0.36	U J	<0.36	U J	<0.36	U J	<0.36	U J	<0.36	U J
Bromodichloromethane	75-27-4	<1.3	U	<0.23	U	<0.23	U	<0.23	U	<0.23	U	<0.23	U	<0.23	U
Bromoform	75-25-2	<2.1	U	<0.36	U	<0.36	U	<0.36	U	<0.36	U	<0.36	U	<0.36	U
Bromomethane	74-83-9	<0.78	U	<0.14	U	<0.14	U	<0.14	U	<0.14	U	<0.14	U	<0.14	U
1,3-Butadiene		<0.44	U	1.3		<0.077	U	<0.077	U	<0.077	U	<0.077	U	<0.077	U
2-Butanone (MEK)	78-93-3	11	J	2.9	J	1.4	J	1.4	J	<4.1	U	1.2	J	<4.1	U
Carbon Disulfide		<6.2	U	<1.1	U	<1.1	U	<1.1	U	<1.1	U	<1.1	U	<1.1	U
Chlorobenzene	108-90-7	<0.92	U	<0.16	U	<0.16	U	<0.16	U	<0.16	U	<0.16	U	<0.16	U
Chloroethane	75-00-3	<0.53	U	<0.092	U	<0.092	U	<0.092	U	<0.092	U	<0.092	U	<0.092	U
Chloroform	67-66-3	<0.98	U	0.38		<0.17	U	<0.17	U	<0.17	U	<0.17	U	<0.17	U
Chloromethane	74-87-3	<0.83	U	2.3		1.2		1.2		1.1		1.0		1.2	
Cyclohexane	110-82-7	<0.69	U	1.4		<0.12	U	<0.12	U	<0.12	U	<0.12	U	<0.12	U
Dibromochloromethane	124-48-1	<1.7	U	<0.30	U	<0.30	U	<0.30	U	<0.30	U	<0.30	U	<0.30	U
1,2-Dibromoethane (EDB)	106-93-4	<1.5	U	<0.27	U	<0.27	U	<0.27	U	<0.27	U	<0.27	U	<0.27	U
1,2-Dichlorobenzene	95-50-1	<1.2	U	<0.21	U	<0.21	U	<0.21	U	<0.21	U	<0.21	U	<0.21	U
1,3-Dichlorobenzene	541-73-1	<1.2	U	<0.21	U	<0.21	U	<0.21	U	<0.21	U	<0.21	U	<0.21	U
1,4 Dichlorobenzene	106-46-7	<1.2	U	<0.21	U	<0.21	U	<0.21	U	<0.21	U	<0.21	U	<0.21	U
Dichlorodifluoromethane (Freon 12)	75-71-8	2.3		2.3		2.4		2.4		2.5		2.4		2.4	
1,1-Dichloroethane	75-34-3	<0.81	U	<0.14	U	<0.14	U	<0.14	U	<0.14	U	<0.14	U	<0.14	U
1,2-Dichloroethane	107-06-2	<0.81	U	<0.14	U	<0.14	U	<0.14	U	<0.14	U	<0.14	U	<0.14	U
trans-1,2-Dichloroethylene	156-60-5	<0.79	U	<0.14	U	<0.14	U	<0.14	U	<0.14	U	<0.14	U	<0.14	U
1,2-Dichloropropane	78-87-5	<0.92	U	<0.16	U	<0.16	U	<0.16	U	<0.16	U	<0.16	U	<0.16	U
Cis-1,3-Dichloropropene	10061-01-5	<0.91	U	<0.16	U	<0.16	U	<0.16	U	<0.16	U	<0.16	U	<0.16	U
Trans-1,3-Dichloropropene	10061-02-6	<0.91	U	<0.16	U	<0.16	U	<0.16	U	<0.16	U	<0.16	U	<0.16	U
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)		<1.4	U	<0.24	U	<0.24	U	<0.24	U	<0.24	U	<0.24	U	<0.24	U
1,4-Dioxane	123-91-1	<7.2	U	<1.3	U	<1.3	U	<1.3	U	<1.3	U	<1.3	U	<1.3	U
Ethanol	64-17-5	22		1600		9.8		110		19		110		6.5	
Ethyl Acetate		<7.2	U	5.5		<1.3	U	1.1	J	<1.3	U	0.96	J	<1.3	U
Ethylbenzene	100-41-4	3.6		2.1		<0.15	U	0.12	J	0.13	J	0.14	J	0.094	J
4-Ethyltoluene		<0.98	U	0.50	J	<0.17	U	<0.17	U	<0.17	U	<0.17	U	<0.17	U
Heptane		71		2.2		0.14	J	0.17		0.14	J	0.17		<0.14	U
Hexachlorobutadiene	87-68-3	<2.1	U	<0.37	U	<0.37	U	<0.37	U	<0.37	U	<0.37	U	<0.37	U
Hexane		9.8	J	5.4		1.1	J	1.3	J	1.1	J	1.1	J	1.1	J
2-Hexanone (MBK)		<0.82	U	<0.14	U	<0.14	U	<0.14	U	<0.14	U	<0.14	U	<0.14	U
Isopropanol		5.8	J	10		1.6	J	1.2	J	0.97	J	0.79	J	0.81	J
Methyl tert-Butyl Ether (MTBE)	1634-04-4	<0.72	U	<0.13	U	<0.13	U	<0.13	U	<0.13	U	<0.13	U	<0.13	U
4-Methyl-2-pentanone (MIBK)	108-10-1	2.1		<0.14	U	<0.14	U	<0.14	U	<0.14	U	<0.14	U	<0.14	U
Naphthalene		<1.0	U	6.4		<0.18	U	0.22		0.17	J	0.23		0.24	
Propene		<14	U	<2.4	U	<2.4	U	<2.4	U	<2.4	U	<2.4	U	<2.4	U
Styrene	100-42-5	<0.85	U	0.40		<0.15	U	0.11	J	<0.15	U	0.15		<0.15	U
1,1,2,2-Tetrachloroethane	79-34-5	<1.4	U	<0.24	U	<0.24	U	<0.24	U	<0.24	U	<0.24	U	<0.24	U
Tetrahydrofuran		4.3	J	<1.0	U	0.30	J	0.89	J	0.43	J	0.93	J	0.21	J
Toluene	108-88-3	8.7		10.0		0.74		0.84		0.81		0.89		0.55	
1,2,4-Trichlorobenzene	120-82-1	<1.5	U	<0.26	U J	<0.26	U J	<0.26	U J	<0.26	U J	<0.26	U J	<0.26	U J
1,1,2-Trichloroethane	79-00-5	<1.1	U	<0.19	U	<0.19	U	<0.19	U	<0.19	U	<0.19	U	<0.19	U
Trichlorofluoromethane (Freon 11)	75-69-4	3.1	J	4.3		1.3		1.5		1.3		1.4		1.3	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	<6.1	U	0.65	J	0.58	J	0.59	J	0.63	J	0.60	J	0.60	J
1,2,4-Trimethylbenzene	95-63-6	3.9		1.5		0.11	J	0.11	J	0.079	J	<0.17	U	0.099	J
1,3,5-Trimethylbenzene	108-67-8	2.7		0.44		<0.17	U	<0.17	U	<0.17	U	<0.17	U	<0.17	U
Vinyl Acetate		<14	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U
m&p-Xylene	179601-23-1	12		8.7		0.29	J	0.39		0.39		0.38		0.27	J
o-Xylene	95-47-6	3.7		3.9		0.12	J	0.14	J	0.14	J	0.15	J	0.100	J

NOTES:

IA - Indoor Air/SS - Sub-slab soil vapor/OA - Outdoor Ambient Air

U - Compound was not detected at the listed reporting limit.

BOLD - The compound was detected.

J - Estimated concentration, greater than MDL, less than RL.

Two other structures (Structures 1 and 6) planned for this event were inaccessible and could not be be sampled

*Water was drawn into the sample regulator due to high groundwater conditions and therefore a sub-slab sample could not be collected at this Structure

AECOM

Table 1
Soil Vapor/Indoor Air Analytical Data - VOCs
Korkay, Inc. Site (#518014)
Broadalbin, NY
March, 2022

	Sample Location	Structure 4										Structure 5			
	Sample Date	03/30/22										03/30/22			
	Sample ID	Structure 4 SS1*	Structure 4 IA1		Structure 4 IA2		Structure 4 IA3		Structure 4 IA4		Structure 4 OA1		Structure 5 SS1		Structure 5 IA1	
VOC (µg/m³)	**CAS No.**															
NYSDOH Matrix A Compounds																
Trichloroethylene	79-01-6	-	<0.19	U	<0.19	U	<0.19	U	<0.19	U	<0.19	U	<1.4	U	<0.19	U
cis-1,2-Dichloroethylene	156-59-2	-	<0.14	U	<0.14	U	<0.14	U	<0.14	U	<0.14	U	<1.1	U	<0.14	U
1,1-Dichloroethylene	75-35-4	-	<0.14	U	<0.14	U	<0.14	U	<0.14	U	<0.14	U	<1.1	U	<0.14	U
Carbon Tetrachloride	56-23-5	-	0.49		0.47		0.47		0.46		0.54		<1.7	U	0.43	
NYSDOH Matrix B Compounds																
Tetrachloroethylene	127-18-4	-	<0.24	U	<0.24	U	<0.24	U	0.41		<0.24	U	1100		48	
1,1,1-Trichloroethane	71-55-6	-	<0.19	U	<0.19	U	<0.19	U	<0.19	U	<0.19	U	<1.5	U	<0.19	U
Methylene Chloride	75-09-2	-	1.2	J	1.9		1.5		3.8		1.2		<9.3	U	2.3	
NYSDOH Matrix C Compounds																
Vinyl Chloride	75-01-4	-	<0.089	U	<0.089	U	<0.089	U	<0.089	U	<0.089	U	<0.68	U	<0.089	U
Other Compounds																
Acetone		-	9.7		6.9		12		10		3.5		50		170	
Benzene	71-43-2	-	0.47		0.46		0.46		0.63		0.45		0.97		12	
Benzyl chloride	100-44-7	-	<0.36	U J	<0.36	U J	<0.36	U J	<0.36	U J	<0.36	U J	<1.4	U	<0.36	U J
Bromodichloromethane	75-27-4	-	<0.23	U	<0.23	U	<0.23	U	<0.23	U	<0.23	U	1.3	J	<0.23	U
Bromoform	75-25-2	-	<0.36	U	<0.36	U	<0.36	U	<0.36	U	<0.36	U	<2.8	U	<0.36	U
Bromomethane	74-83-9	-	<0.14	U	<0.14	U	<0.14	U	<0.14	U	<0.14	U	<1.0	U	<0.14	U
1,3-Butadiene		-	<0.077	U	<0.077	U	<0.077	U	<0.077	U	<0.077	U	<0.59	U	<0.077	U
2-Butanone (MEK)	78-93-3	-	1.8	J	<4.1	U	1.6	J	1.4	J	<4.1	U	<31	U	4.6	
Carbon Disulfide		-	<1.1	U	<1.1	U	<1.1	U	<1.1	U	<1.1	U	1.8	J	<1.1	U
Chlorobenzene	108-90-7	-	<0.16	U	<0.16	U	<0.16	U	<0.16	U	<0.16	U	<1.2	U	<0.16	U
Chloroethane	75-00-3	-	<0.092	U	<0.092	U	<0.092	U	<0.092	U	<0.092	U	<0.70	U	<0.092	U
Chloroform	67-66-3	-	<0.17	U	<0.17	U	<0.17	U	<0.17	U	<0.17	U	56		<0.17	U
Chloromethane	74-87-3	-	1.1		1.1		1.1		0.96		1.1		<1.1	U	1.2	
Cyclohexane	110-82-7	-	<0.12	U	<0.12	U	<0.12	U	0.25		<0.12	U	<0.92	U	18	
Dibromochloromethane	124-48-1	-	<0.30	U	<0.30	U	<0.30	U	<0.30	U	<0.30	U	<2.3	U	<0.30	U
1,2-Dibromoethane (EDB)	106-93-4	-	<0.27	U	<0.27	U	<0.27	U	<0.27	U	<0.27	U	<2.0	U	<0.27	U
1,2-Dichlorobenzene	95-50-1	-	<0.21	U	<0.21	U	<0.21	U	<0.21	U	<0.21	U	<1.6	U	<0.21	U
1,3-Dichlorobenzene	541-73-1	-	<0.21	U	<0.21	U	<0.21	U	<0.21	U	<0.21	U	<1.6	U	<0.21	U
1,4 Dichlorobenzene	106-46-7	-	<0.21	U	<0.21	U	<0.21	U	<0.21	U	<0.21	U	<1.6	U	<0.21	U
Dichlorodifluoromethane (Freon 12)	75-71-8	-	2.4		2.4		2.5		2.5		2.5		3.6		2.4	
1,1-Dichloroethane	75-34-3	-	<0.14	U	<0.14	U	<0.14	U	<0.14	U	<0.14	U	<1.1	U	<0.14	U
1,2-Dichloroethane	107-06-2	-	<0.14	U	<0.14	U	<0.14	U	<0.14	U	<0.14	U	<1.1	U	<0.14	U
trans-1,2-Dichloroethylene	156-60-5	-	<0.14	U	<0.14	U	<0.14	U	<0.14	U	1.6		<1.1	U	<0.14	U
1,2-Dichloropropane	78-87-5	-	<0.16	U	<0.16	U	<0.16	U	<0.16	U	<0.16	U	<1.2	U	<0.16	U
Cis-1,3-Dichloropropene	10061-01-5	-	<0.16	U	<0.16	U	<0.16	U	<0.16	U	<0.16	U	<1.2	U	<0.16	U
Trans-1,3-Dichloropropene	10061-02-6	-	<0.16	U	<0.16	U	<0.16	U	<0.16	U	<0.16	U	<1.2	U	<0.16	U
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)		-	<0.24	U	<0.24	U	<0.24	U	<0.24	U	<0.24	U	<1.9	U	<0.24	U
1,4-Dioxane	123-91-1	-	<1.3	U	<1.3	U	<1.3	U	<1.3	U	<1.3	U	<9.6	U	<1.3	U
Ethanol	64-17-5	-	170		82		24		8.0		2.7		14	J	140	
Ethyl Acetate		-	0.69	J	0.65	J	<1.3	U	4.1		<1.3	U	<9.6	U	4.8	
Ethylbenzene	100-41-4	-	0.23		0.16		0.13	J	0.34		<0.15	U	4.8		13	
4-Ethyltoluene		-	<0.17	U	<0.17	U	<0.17	U	<0.17	U	<0.17	U	2.7		5.2	
Heptane		-	0.17		0.17		0.16		0.47		<0.14	U	4.6		29	
Hexachlorobutadiene	87-68-3	-	<0.37	U	<0.37	U	<0.37	U	<0.37	U	<0.37	U	<2.8	U	<0.37	U
Hexane		-	1.1	J	1.2	J	1.2	J	2.6	J	1.2	J	<38	U	46	
2-Hexanone (MBK)		-	<0.14	U	<0.14	U	<0.14	U	<0.14	U	<0.14	U	<1.1	U	<0.14	U
Isopropanol		-	1.4	J	1.9	J	1.6	J	3.4	J	1.3	J	<26	U	4.2	
Methyl tert-Butyl Ether (MTBE)	1634-04-4	-	<0.13	U	<0.13	U	<0.13	U	<0.13	U	<0.13	U	<0.96	U	<0.13	U
4-Methyl-2-pentanone (MIBK)	108-10-1	-	<0.14	U	<0.14	U	<0.14	U	<0.14	U	<0.14	U	<1.1	U	<0.14	U
Naphthalene		-	<0.18	U	<0.18	U	<0.18	U	<0.18	U	<0.18	U	<1.4	U	2.3	
Propene		-	<2.4	U	<2.4	U	<2.4	U	<2.4	U	<2.4	U	<18	U	<2.4	U
Styrene	100-42-5	-	0.14	J	0.18		<0.15	U	0.13	J	<0.15	U	<1.1	U	<0.15	U
1,1,2,2-Tetrachloroethane	79-34-5	-	<0.24	U	<0.24	U	<0.24	U	<0.24	U	<0.24	U	<1.8	U	<0.24	U
Tetrahydrofuran		-	<1.0	U	0.32	J	0.28	J	0.46	J	0.27	J	<7.9	U	<1.0	U
Toluene	108-88-3	-	1.4		1.4		1.1		4.8		0.57		14		75	
1,2,4-Trichlorobenzene	120-82-1	-	<0.26	U J	<0.26	U J	<0.26	U J	<0.26	U J	<0.26	U J	<2.0	U	<0.26	U J
1,1,2-Trichloroethane	79-00-5	-	<0.19	U	<0.19	U	<0.19	U	<0.19	U	<0.19	U	<1.5	U	<0.19	U
Trichlorofluoromethane (Freon 11)	75-69-4	-	1.3		1.4		1.3		1.4		1.4		1.9	J	2.0	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	-	0.59	J	0.61	J	0.49	J	0.60	J	0.73	J	<8.2	U	0.64	J
1,2,4-Trimethylbenzene	95-63-6	-	0.26		0.14	J	<0.17	U	0.20		<0.17	U	13		18	
1,3,5-Trimethylbenzene	108-67-8	-	<0.17	U	<0.17	U	<0.17	U	<0.17	U	<0.17	U	3.4		4.6	
Vinyl Acetate		-	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<19	U	<2.5	U
m&p-Xylene	179601-23-1	-	0.78		0.48		0.40		1.0		0.26	J	24		43	
o-Xylene	95-47-6	-	0.34		0.19		0.14	J	0.36		0.100	J	8.3		17	

NOTES:

IA - Indoor Air/SS - Sub-slab soil vapor/OA - Outdoor Ambient Air

U - Compound was not detected at the listed reporting limit.

BOLD - The compound was detected.

J - Estimated concentration, greater than MDL, less than RL.

Two other structures (Structures 1 and 6) planned for this event were inaccessible and could

*Water was drawn into the sample regulator due to high groundwater conditions and therefor

Appendix A

Laboratory Analytical Report and Data Usability Summary Report - Redacted

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

April 14, 2022

Walter Howard
NYDEC_AECOM Environment - Latham, NY
40 British American Blvd.
Latham, NY 12110

Project Location: NY
Client Job Number:
Project Number: 60631025.05.01F
Laboratory Work Order Number: 22D0004

Enclosed are results of analyses for samples as received by the laboratory on March 31, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raymond J. McCarthy
Project Manager

QA Officer
Katherine Allen

Laboratory Manager
Daren Damboragian

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYDEC_AECOM Environment - Latham, NY
40 British American Blvd.
Latham, NY 12110
ATTN: Walter Howard

REPORT DATE: 4/14/2022

PURCHASE ORDER NUMBER: 141733

PROJECT NUMBER: 60631025.05.01F

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22D0004

The results of analyses performed on the following samples submitted to Con-Test, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Structure 2-OA-1-03302022	22D0004-01	Ambient Air		EPA TO-15	
Structure 2-IA-1-03302022	22D0004-02	Indoor air		EPA TO-15	
Structure 2-SS-1-03302022	22D0004-03	Sub Slab		EPA TO-15	
Structure 3-OA-1-03302022	22D0004-04	Ambient Air		EPA TO-15	
Structure 3-IA-1-03302022	22D0004-05	Indoor air		EPA TO-15	
Structure 3-IA-DUP-03302022	22D0004-06	Indoor air		EPA TO-15	
Structure 3-IA-2-03302022	22D0004-07	Indoor air		EPA TO-15	
Structure 4-IA-1-03302022	22D0004-09	Indoor air		EPA TO-15	
Structure 4-OA-1-03302022	22D0004-10	Ambient Air		EPA TO-15	
Structure 4-IA-2-03302022	22D0004-11	Indoor air		EPA TO-15	
Structure 4-IA-3-03302022	22D0004-12	Indoor air		EPA TO-15	
Structure 4-IA-4-03302022	22D0004-13	Indoor air		EPA TO-15	
Structure 5-SS-1-03302022	22D0004-14	Sub Slab		EPA TO-15	
Structure 5-IA-1-03302022	22D0004-15	Indoor air		EPA TO-15	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA TO-15

Qualifications:

E Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:

Ethanol

B305343-DUP1

R-04 Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).

Analyte & Samples(s) Qualified:

4-Ethyltoluene

B305343-DUP1

RL-11 Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

22D0004-14[69WMainSt-SS-1-03302022]

V-36 Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

1,2,4-Trichlorobenzene, Benzyl chloride

B305343-BS1, S070138-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Technical Representative

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 2 **-OA-1-03302022**
Sample ID: 22D0004-01
Sample Matrix: Ambient Air
Sampled: 3/30/2022 08:15

Sample Description/Location:
Sub Description/Location:
Canister ID: 1986
Canister Size: 6 liter
Flow Controller ID: 3256
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -29.5
Final Vacuum(in Hg): -10.5
Receipt Vacuum(in Hg): -7.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	Results	RL	MDL	Flag/Qual	Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	3.0	1.4	0.84		7.0	3.3	2.0	0.698	4/7/22 14:50	BRF
Benzene	0.18	0.035	0.026		0.58	0.11	0.084	0.698	4/7/22 14:50	BRF
Benzyl chloride	ND	0.070	0.031		ND	0.36	0.16	0.698	4/7/22 14:50	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	4/7/22 14:50	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	4/7/22 14:50	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	4/7/22 14:50	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	4/7/22 14:50	BRF
2-Butanone (MEK)	0.46	1.4	0.37	J	1.4	4.1	1.1	0.698	4/7/22 14:50	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	4/7/22 14:50	BRF
Carbon Tetrachloride	0.070	0.035	0.028		0.44	0.22	0.17	0.698	4/7/22 14:50	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	4/7/22 14:50	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	4/7/22 14:50	BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	4/7/22 14:50	BRF
Chloromethane	0.56	0.070	0.028		1.2	0.14	0.057	0.698	4/7/22 14:50	BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.079	0.698	4/7/22 14:50	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	4/7/22 14:50	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	4/7/22 14:50	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	4/7/22 14:50	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	4/7/22 14:50	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	4/7/22 14:50	BRF
Dichlorodifluoromethane (Freon 12)	0.48	0.035	0.034		2.4	0.17	0.17	0.698	4/7/22 14:50	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	4/7/22 14:50	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	4/7/22 14:50	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 14:50	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	4/7/22 14:50	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 14:50	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	4/7/22 14:50	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	4/7/22 14:50	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	4/7/22 14:50	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	4/7/22 14:50	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	4/7/22 14:50	BRF
Ethanol	5.2	1.4	0.62		9.8	2.6	1.2	0.698	4/7/22 14:50	BRF
Ethyl Acetate	ND	0.35	0.18		ND	1.3	0.64	0.698	4/7/22 14:50	BRF
Ethylbenzene	ND	0.035	0.020		ND	0.15	0.088	0.698	4/7/22 14:50	BRF
4-Ethyltoluene	ND	0.035	0.021		ND	0.17	0.11	0.698	4/7/22 14:50	BRF
Heptane	0.033	0.035	0.022	J	0.14	0.14	0.091	0.698	4/7/22 14:50	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	4/7/22 14:50	BRF
Hexane	0.32	1.4	0.18	J	1.1	4.9	0.64	0.698	4/7/22 14:50	BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.698	4/7/22 14:50	BRF
Isopropanol	0.63	1.4	0.24	J	1.6	3.4	0.59	0.698	4/7/22 14:50	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	4/7/22 14:50	BRF
Methylene Chloride	0.31	0.35	0.16	J	1.1	1.2	0.56	0.698	4/7/22 14:50	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	4/7/22 14:50	BRF
Naphthalene	ND	0.035	0.022		ND	0.18	0.12	0.698	4/7/22 14:50	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	4/7/22 14:50	BRF
Styrene	ND	0.035	0.018		ND	0.15	0.078	0.698	4/7/22 14:50	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	4/7/22 14:50	BRF

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 2 **-OA-1-03302022**
Sample ID: 22D0004-01
Sample Matrix: Ambient Air
Sampled: 3/30/2022 08:15

Sample Description/Location:
Sub Description/Location:
Canister ID: 1986
Canister Size: 6 liter
Flow Controller ID: 3256
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -29.5
Final Vacuum(in Hg): -10.5
Receipt Vacuum(in Hg): -7.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	ND	0.035	0.027		ND	0.24	0.18	0.698	4/7/22 14:50	BRF
Tetrahydrofuran	0.10	0.35	0.057	J	0.30	1.0	0.17	0.698	4/7/22 14:50	BRF
Toluene	0.20	0.035	0.020		0.74	0.13	0.075	0.698	4/7/22 14:50	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND	0.26	0.18	0.698	4/7/22 14:50	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	4/7/22 14:50	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	4/7/22 14:50	BRF
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.698	4/7/22 14:50	BRF
Trichlorofluoromethane (Freon 11)	0.23	0.14	0.041		1.3	0.78	0.23	0.698	4/7/22 14:50	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.076	0.14	0.039	J	0.58	1.1	0.30	0.698	4/7/22 14:50	BRF
1,2,4-Trimethylbenzene	0.022	0.035	0.015	J	0.11	0.17	0.076	0.698	4/7/22 14:50	BRF
1,3,5-Trimethylbenzene	ND	0.035	0.018		ND	0.17	0.091	0.698	4/7/22 14:50	BRF
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.698	4/7/22 14:50	BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	4/7/22 14:50	BRF
m&p-Xylene	0.067	0.070	0.039	J	0.29	0.30	0.17	0.698	4/7/22 14:50	BRF
o-Xylene	0.028	0.035	0.018	J	0.12	0.15	0.078	0.698	4/7/22 14:50	BRF

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	101	70-130		4/7/22 14:50

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 2 **-IA-1-03302022**
Sample ID: 22D0004-02
Sample Matrix: Indoor air
Sampled: 3/30/2022 00:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 1038
Canister Size: 6 liter
Flow Controller ID: 3257
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -8.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	12	1.4	0.84		30	3.3	2.0	0.698	4/7/22 15:56	BRF
Benzene	0.75	0.035	0.026		2.4	0.11	0.084	0.698	4/7/22 15:56	BRF
Benzyl chloride	ND	0.070	0.031		ND	0.36	0.16	0.698	4/7/22 15:56	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	4/7/22 15:56	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	4/7/22 15:56	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	4/7/22 15:56	BRF
1,3-Butadiene	0.59	0.035	0.029		1.3	0.077	0.065	0.698	4/7/22 15:56	BRF
2-Butanone (MEK)	0.97	1.4	0.37	J	2.9	4.1	1.1	0.698	4/7/22 15:56	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	4/7/22 15:56	BRF
Carbon Tetrachloride	0.066	0.035	0.028		0.42	0.22	0.17	0.698	4/7/22 15:56	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	4/7/22 15:56	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	4/7/22 15:56	BRF
Chloroform	0.079	0.035	0.033		0.38	0.17	0.16	0.698	4/7/22 15:56	BRF
Chloromethane	1.1	0.070	0.028		2.3	0.14	0.057	0.698	4/7/22 15:56	BRF
Cyclohexane	0.41	0.035	0.023		1.4	0.12	0.079	0.698	4/7/22 15:56	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	4/7/22 15:56	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	4/7/22 15:56	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	4/7/22 15:56	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	4/7/22 15:56	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	4/7/22 15:56	BRF
Dichlorodifluoromethane (Freon 12)	0.47	0.035	0.034		2.3	0.17	0.17	0.698	4/7/22 15:56	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	4/7/22 15:56	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	4/7/22 15:56	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 15:56	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	4/7/22 15:56	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 15:56	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	4/7/22 15:56	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	4/7/22 15:56	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	4/7/22 15:56	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	4/7/22 15:56	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	4/7/22 15:56	BRF
Ethanol	830	60	26		1600	110	50	30	4/8/22 16:09	BRF
Ethyl Acetate	1.5	0.35	0.18		5.5	1.3	0.64	0.698	4/7/22 15:56	BRF
Ethylbenzene	0.48	0.035	0.020		2.1	0.15	0.088	0.698	4/7/22 15:56	BRF
4-Ethyltoluene	0.10	0.035	0.021		0.50	0.17	0.11	0.698	4/7/22 15:56	BRF
Heptane	0.54	0.035	0.022		2.2	0.14	0.091	0.698	4/7/22 15:56	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	4/7/22 15:56	BRF
Hexane	1.5	1.4	0.18		5.4	4.9	0.64	0.698	4/7/22 15:56	BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.698	4/7/22 15:56	BRF
Isopropanol	4.2	1.4	0.24		10	3.4	0.59	0.698	4/7/22 15:56	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	4/7/22 15:56	BRF
Methylene Chloride	0.42	0.35	0.16		1.4	1.2	0.56	0.698	4/7/22 15:56	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	4/7/22 15:56	BRF
Naphthalene	1.2	0.035	0.022		6.4	0.18	0.12	0.698	4/7/22 15:56	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	4/7/22 15:56	BRF
Styrene	0.093	0.035	0.018		0.40	0.15	0.078	0.698	4/7/22 15:56	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	4/7/22 15:56	BRF

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 2 **-IA-1-03302022**
Sample ID: 22D0004-02
Sample Matrix: Indoor air
Sampled: 3/30/2022 00:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 1038
Canister Size: 6 liter
Flow Controller ID: 3257
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -8.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	ppbv MDL	Flag/Qual	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Dilution	Date/Time Analyzed	Analyst
Tetrachloroethylene	0.052	0.035	0.027		0.35	0.24	0.18	0.698	4/7/22 15:56	BRF
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.698	4/7/22 15:56	BRF
Toluene	2.6	0.035	0.020		10.0	0.13	0.075	0.698	4/7/22 15:56	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND	0.26	0.18	0.698	4/7/22 15:56	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	4/7/22 15:56	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	4/7/22 15:56	BRF
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.698	4/7/22 15:56	BRF
Trichlorofluoromethane (Freon 11)	0.77	0.14	0.041		4.3	0.78	0.23	0.698	4/7/22 15:56	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.084	0.14	0.039	J	0.65	1.1	0.30	0.698	4/7/22 15:56	BRF
1,2,4-Trimethylbenzene	0.31	0.035	0.015		1.5	0.17	0.076	0.698	4/7/22 15:56	BRF
1,3,5-Trimethylbenzene	0.089	0.035	0.018		0.44	0.17	0.091	0.698	4/7/22 15:56	BRF
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.698	4/7/22 15:56	BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	4/7/22 15:56	BRF
m&p-Xylene	2.0	0.070	0.039		8.7	0.30	0.17	0.698	4/7/22 15:56	BRF
o-Xylene	0.90	0.035	0.018		3.9	0.15	0.078	0.698	4/7/22 15:56	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	103	70-130	4/7/22 15:56
4-Bromofluorobenzene (1)	97.6	70-130	4/8/22 16:09

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 2 **-SS-1-03302022**
Sample ID: 22D0004-03
Sample Matrix: Sub Slab
Sampled: 3/30/2022 08:56

Sample Description/Location:
Sub Description/Location:
Canister ID: 1162
Canister Size: 6 liter
Flow Controller ID: 3064
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -12
Receipt Vacuum(in Hg): -11.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	Results	RL	MDL	Flag/Qual	Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	53	8.0	4.8		120	19	11	4	4/11/22 23:00	BRF
Benzene	0.64	0.20	0.15		2.0	0.64	0.48	4	4/11/22 23:00	BRF
Benzyl chloride	ND	0.20	0.18		ND	1.0	0.91	4	4/11/22 23:00	BRF
Bromodichloromethane	ND	0.20	0.14		ND	1.3	0.94	4	4/11/22 23:00	BRF
Bromoform	ND	0.20	0.14		ND	2.1	1.4	4	4/11/22 23:00	BRF
Bromomethane	ND	0.20	0.16		ND	0.78	0.63	4	4/11/22 23:00	BRF
1,3-Butadiene	ND	0.20	0.17		ND	0.44	0.37	4	4/11/22 23:00	BRF
2-Butanone (MEK)	3.7	8.0	2.1	J	11	24	6.3	4	4/11/22 23:00	BRF
Carbon Disulfide	ND	2.0	0.18		ND	6.2	0.58	4	4/11/22 23:00	BRF
Carbon Tetrachloride	ND	0.20	0.16		ND	1.3	1.0	4	4/11/22 23:00	BRF
Chlorobenzene	ND	0.20	0.13		ND	0.92	0.61	4	4/11/22 23:00	BRF
Chloroethane	ND	0.20	0.15		ND	0.53	0.39	4	4/11/22 23:00	BRF
Chloroform	ND	0.20	0.19		ND	0.98	0.93	4	4/11/22 23:00	BRF
Chloromethane	ND	0.40	0.16		ND	0.83	0.33	4	4/11/22 23:00	BRF
Cyclohexane	ND	0.20	0.13		ND	0.69	0.46	4	4/11/22 23:00	BRF
Dibromochloromethane	ND	0.20	0.13		ND	1.7	1.1	4	4/11/22 23:00	BRF
1,2-Dibromoethane (EDB)	ND	0.20	0.12		ND	1.5	0.93	4	4/11/22 23:00	BRF
1,2-Dichlorobenzene	ND	0.20	0.11		ND	1.2	0.69	4	4/11/22 23:00	BRF
1,3-Dichlorobenzene	ND	0.20	0.11		ND	1.2	0.67	4	4/11/22 23:00	BRF
1,4-Dichlorobenzene	ND	0.20	0.13		ND	1.2	0.79	4	4/11/22 23:00	BRF
Dichlorodifluoromethane (Freon 12)	0.46	0.20	0.20		2.3	0.99	0.97	4	4/11/22 23:00	BRF
1,1-Dichloroethane	ND	0.20	0.17		ND	0.81	0.71	4	4/11/22 23:00	BRF
1,2-Dichloroethane	ND	0.20	0.18		ND	0.81	0.73	4	4/11/22 23:00	BRF
1,1-Dichloroethylene	ND	0.20	0.15		ND	0.79	0.60	4	4/11/22 23:00	BRF
cis-1,2-Dichloroethylene	ND	0.20	0.15		ND	0.79	0.58	4	4/11/22 23:00	BRF
trans-1,2-Dichloroethylene	ND	0.20	0.16		ND	0.79	0.62	4	4/11/22 23:00	BRF
1,2-Dichloropropane	ND	0.20	0.11		ND	0.92	0.50	4	4/11/22 23:00	BRF
cis-1,3-Dichloropropene	ND	0.20	0.10		ND	0.91	0.47	4	4/11/22 23:00	BRF
trans-1,3-Dichloropropene	ND	0.20	0.10		ND	0.91	0.46	4	4/11/22 23:00	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.20	0.20		ND	1.4	1.4	4	4/11/22 23:00	BRF
1,4-Dioxane	ND	2.0	0.17		ND	7.2	0.60	4	4/11/22 23:00	BRF
Ethanol	12	8.0	3.5		22	15	6.6	4	4/11/22 23:00	BRF
Ethyl Acetate	ND	2.0	1.0		ND	7.2	3.6	4	4/11/22 23:00	BRF
Ethylbenzene	0.84	0.20	0.12		3.6	0.87	0.51	4	4/11/22 23:00	BRF
4-Ethyltoluene	ND	0.20	0.12		ND	0.98	0.60	4	4/11/22 23:00	BRF
Heptane	17	0.20	0.13		71	0.82	0.52	4	4/11/22 23:00	BRF
Hexachlorobutadiene	ND	0.20	0.16		ND	2.1	1.8	4	4/11/22 23:00	BRF
Hexane	2.8	8.0	1.0	J	9.8	28	3.7	4	4/11/22 23:00	BRF
2-Hexanone (MBK)	ND	0.20	0.10		ND	0.82	0.41	4	4/11/22 23:00	BRF
Isopropanol	2.4	8.0	1.4	J	5.8	20	3.4	4	4/11/22 23:00	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.20	0.15		ND	0.72	0.56	4	4/11/22 23:00	BRF
Methylene Chloride	ND	2.0	0.93		ND	6.9	3.2	4	4/11/22 23:00	BRF
4-Methyl-2-pentanone (MIBK)	0.52	0.20	0.10		2.1	0.82	0.42	4	4/11/22 23:00	BRF
Naphthalene	ND	0.20	0.13		ND	1.0	0.66	4	4/11/22 23:00	BRF
Propene	ND	8.0	1.8		ND	14	3.0	4	4/11/22 23:00	BRF
Styrene	ND	0.20	0.11		ND	0.85	0.45	4	4/11/22 23:00	BRF
1,1,2,2-Tetrachloroethane	ND	0.20	0.11		ND	1.4	0.74	4	4/11/22 23:00	BRF

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 2 **-SS-1-03302022**
Sample ID: 22D0004-03
Sample Matrix: Sub Slab
Sampled: 3/30/2022 08:56

Sample Description/Location:
Sub Description/Location:
Canister ID: 1162
Canister Size: 6 liter
Flow Controller ID: 3064
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -12
Receipt Vacuum(in Hg): -11.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	ND	0.20	0.15		ND	1.4	1.0	4	4/11/22 23:00	BRF
Tetrahydrofuran	1.5	2.0	0.33	J	4.3	5.9	0.97	4	4/11/22 23:00	BRF
Toluene	2.3	0.20	0.11		8.7	0.75	0.43	4	4/11/22 23:00	BRF
1,2,4-Trichlorobenzene	ND	0.20	0.14		ND	1.5	1.0	4	4/11/22 23:00	BRF
1,1,1-Trichloroethane	ND	0.20	0.16		ND	1.1	0.86	4	4/11/22 23:00	BRF
1,1,2-Trichloroethane	ND	0.20	0.14		ND	1.1	0.77	4	4/11/22 23:00	BRF
Trichloroethylene	ND	0.20	0.13		ND	1.1	0.72	4	4/11/22 23:00	BRF
Trichlorofluoromethane (Freon 11)	0.55	0.80	0.24	J	3.1	4.5	1.3	4	4/11/22 23:00	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.80	0.22		ND	6.1	1.7	4	4/11/22 23:00	BRF
1,2,4-Trimethylbenzene	0.80	0.20	0.088		3.9	0.98	0.43	4	4/11/22 23:00	BRF
1,3,5-Trimethylbenzene	0.54	0.20	0.11		2.7	0.98	0.52	4	4/11/22 23:00	BRF
Vinyl Acetate	ND	4.0	1.1		ND	14	3.8	4	4/11/22 23:00	BRF
Vinyl Chloride	ND	0.20	0.18		ND	0.51	0.46	4	4/11/22 23:00	BRF
m&p-Xylene	2.7	0.40	0.22		12	1.7	0.97	4	4/11/22 23:00	BRF
o-Xylene	0.86	0.20	0.10		3.7	0.87	0.44	4	4/11/22 23:00	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	80.6	70-130	4/11/22 23:00

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 3 **-OA-1-03302022**
Sample ID: 22D0004-04
Sample Matrix: Ambient Air
Sampled: 3/30/2022 09:15

Sample Description/Location:
Sub Description/Location:
Canister ID: 1745
Canister Size: 6 liter
Flow Controller ID: 3521
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -7.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	Results	RL	MDL	Flag/Qual	Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	1.5	1.4	0.84		3.5	3.3	2.0	0.698	4/7/22 17:06	BRF
Benzene	0.14	0.035	0.026		0.46	0.11	0.084	0.698	4/7/22 17:06	BRF
Benzyl chloride	ND	0.070	0.031		ND	0.36	0.16	0.698	4/7/22 17:06	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	4/7/22 17:06	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	4/7/22 17:06	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	4/7/22 17:06	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	4/7/22 17:06	BRF
2-Butanone (MEK)	ND	1.4	0.37		ND	4.1	1.1	0.698	4/7/22 17:06	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	4/7/22 17:06	BRF
Carbon Tetrachloride	0.075	0.035	0.028		0.47	0.22	0.17	0.698	4/7/22 17:06	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	4/7/22 17:06	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	4/7/22 17:06	BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	4/7/22 17:06	BRF
Chloromethane	0.58	0.070	0.028		1.2	0.14	0.057	0.698	4/7/22 17:06	BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.079	0.698	4/7/22 17:06	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	4/7/22 17:06	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	4/7/22 17:06	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	4/7/22 17:06	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	4/7/22 17:06	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	4/7/22 17:06	BRF
Dichlorodifluoromethane (Freon 12)	0.48	0.035	0.034		2.4	0.17	0.17	0.698	4/7/22 17:06	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	4/7/22 17:06	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	4/7/22 17:06	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 17:06	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	4/7/22 17:06	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 17:06	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	4/7/22 17:06	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	4/7/22 17:06	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	4/7/22 17:06	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	4/7/22 17:06	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	4/7/22 17:06	BRF
Ethanol	3.4	1.4	0.62		6.5	2.6	1.2	0.698	4/7/22 17:06	BRF
Ethyl Acetate	ND	0.35	0.18		ND	1.3	0.64	0.698	4/7/22 17:06	BRF
Ethylbenzene	0.022	0.035	0.020	J	0.094	0.15	0.088	0.698	4/7/22 17:06	BRF
4-Ethyltoluene	ND	0.035	0.021		ND	0.17	0.11	0.698	4/7/22 17:06	BRF
Heptane	ND	0.035	0.022		ND	0.14	0.091	0.698	4/7/22 17:06	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	4/7/22 17:06	BRF
Hexane	0.31	1.4	0.18	J	1.1	4.9	0.64	0.698	4/7/22 17:06	BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.698	4/7/22 17:06	BRF
Isopropanol	0.33	1.4	0.24	J	0.81	3.4	0.59	0.698	4/7/22 17:06	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	4/7/22 17:06	BRF
Methylene Chloride	0.25	0.35	0.16	J	0.87	1.2	0.56	0.698	4/7/22 17:06	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	4/7/22 17:06	BRF
Naphthalene	0.046	0.035	0.022		0.24	0.18	0.12	0.698	4/7/22 17:06	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	4/7/22 17:06	BRF
Styrene	ND	0.035	0.018		ND	0.15	0.078	0.698	4/7/22 17:06	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	4/7/22 17:06	BRF

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 3 **-OA-1-03302022**
Sample ID: 22D0004-04
Sample Matrix: Ambient Air
Sampled: 3/30/2022 09:15

Sample Description/Location:
Sub Description/Location:
Canister ID: 1745
Canister Size: 6 liter
Flow Controller ID: 3521
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -7.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	ppbv MDL	Flag/Qual	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Dilution	Date/Time Analyzed	Analyst
Tetrachloroethylene	ND	0.035	0.027		ND	0.24	0.18	0.698	4/7/22 17:06	BRF
Tetrahydrofuran	0.073	0.35	0.057	J	0.21	1.0	0.17	0.698	4/7/22 17:06	BRF
Toluene	0.15	0.035	0.020		0.55	0.13	0.075	0.698	4/7/22 17:06	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND	0.26	0.18	0.698	4/7/22 17:06	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	4/7/22 17:06	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	4/7/22 17:06	BRF
Trichloroethylene	0.069	0.035	0.024		0.37	0.19	0.13	0.698	4/7/22 17:06	BRF
Trichlorofluoromethane (Freon 11)	0.23	0.14	0.041		1.3	0.78	0.23	0.698	4/7/22 17:06	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.079	0.14	0.039	J	0.60	1.1	0.30	0.698	4/7/22 17:06	BRF
1,2,4-Trimethylbenzene	0.020	0.035	0.015	J	0.099	0.17	0.076	0.698	4/7/22 17:06	BRF
1,3,5-Trimethylbenzene	ND	0.035	0.018		ND	0.17	0.091	0.698	4/7/22 17:06	BRF
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.698	4/7/22 17:06	BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	4/7/22 17:06	BRF
m&p-Xylene	0.061	0.070	0.039	J	0.27	0.30	0.17	0.698	4/7/22 17:06	BRF
o-Xylene	0.023	0.035	0.018	J	0.100	0.15	0.078	0.698	4/7/22 17:06	BRF

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	100	70-130		4/7/22 17:06

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 3 **-IA-1-03302022**
Sample ID: 22D0004-05
Sample Matrix: Indoor air
Sampled: 3/30/2022 12:55

Sample Description/Location:
Sub Description/Location:
Canister ID: 1502
Canister Size: 6 liter
Flow Controller ID: 3503
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -4.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

		ppbv				ug/m3			Date/Time	
Analyte	Results	RL	MDL	Flag/Qual	Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	3.1	1.4	0.84		7.4	3.3	2.0	0.698	4/7/22 17:43	BRF
Benzene	0.39	0.035	0.026		1.3	0.11	0.084	0.698	4/7/22 17:43	BRF
Benzyl chloride	ND	0.070	0.031		ND	0.36	0.16	0.698	4/7/22 17:43	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	4/7/22 17:43	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	4/7/22 17:43	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	4/7/22 17:43	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	4/7/22 17:43	BRF
2-Butanone (MEK)	0.48	1.4	0.37	J	1.4	4.1	1.1	0.698	4/7/22 17:43	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	4/7/22 17:43	BRF
Carbon Tetrachloride	0.057	0.035	0.028		0.36	0.22	0.17	0.698	4/7/22 17:43	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	4/7/22 17:43	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	4/7/22 17:43	BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	4/7/22 17:43	BRF
Chloromethane	0.56	0.070	0.028		1.2	0.14	0.057	0.698	4/7/22 17:43	BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.079	0.698	4/7/22 17:43	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	4/7/22 17:43	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	4/7/22 17:43	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	4/7/22 17:43	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	4/7/22 17:43	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	4/7/22 17:43	BRF
Dichlorodifluoromethane (Freon 12)	0.49	0.035	0.034		2.4	0.17	0.17	0.698	4/7/22 17:43	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	4/7/22 17:43	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	4/7/22 17:43	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 17:43	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	4/7/22 17:43	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 17:43	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	4/7/22 17:43	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	4/7/22 17:43	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	4/7/22 17:43	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	4/7/22 17:43	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	4/7/22 17:43	BRF
Ethanol	58	8.0	3.5		110	15	6.6	4	4/8/22 17:07	BRF
Ethyl Acetate	0.30	0.35	0.18	J	1.1	1.3	0.64	0.698	4/7/22 17:43	BRF
Ethylbenzene	0.028	0.035	0.020	J	0.12	0.15	0.088	0.698	4/7/22 17:43	BRF
4-Ethyltoluene	ND	0.035	0.021		ND	0.17	0.11	0.698	4/7/22 17:43	BRF
Heptane	0.043	0.035	0.022		0.17	0.14	0.091	0.698	4/7/22 17:43	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	4/7/22 17:43	BRF
Hexane	0.37	1.4	0.18	J	1.3	4.9	0.64	0.698	4/7/22 17:43	BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.698	4/7/22 17:43	BRF
Isopropanol	0.51	1.4	0.24	J	1.2	3.4	0.59	0.698	4/7/22 17:43	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	4/7/22 17:43	BRF
Methylene Chloride	0.35	0.35	0.16	J	1.2	1.2	0.56	0.698	4/7/22 17:43	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	4/7/22 17:43	BRF
Naphthalene	0.043	0.035	0.022		0.22	0.18	0.12	0.698	4/7/22 17:43	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	4/7/22 17:43	BRF
Styrene	0.025	0.035	0.018	J	0.11	0.15	0.078	0.698	4/7/22 17:43	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	4/7/22 17:43	BRF

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 3 **-IA-1-03302022**
Sample ID: 22D0004-05
Sample Matrix: Indoor air
Sampled: 3/30/2022 12:55

Sample Description/Location:
Sub Description/Location:
Canister ID: 1502
Canister Size: 6 liter
Flow Controller ID: 3503
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -4.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	ppbv MDL	Flag/Qual	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Dilution	Date/Time Analyzed	Analyst
Tetrachloroethylene	0.030	0.035	0.027	J	0.20	0.24	0.18	0.698	4/7/22 17:43	BRF
Tetrahydrofuran	0.30	0.35	0.057	J	0.89	1.0	0.17	0.698	4/7/22 17:43	BRF
Toluene	0.22	0.035	0.020		0.84	0.13	0.075	0.698	4/7/22 17:43	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND	0.26	0.18	0.698	4/7/22 17:43	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	4/7/22 17:43	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	4/7/22 17:43	BRF
Trichloroethylene	0.16	0.035	0.024		0.87	0.19	0.13	0.698	4/7/22 17:43	BRF
Trichlorofluoromethane (Freon 11)	0.26	0.14	0.041		1.5	0.78	0.23	0.698	4/7/22 17:43	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.077	0.14	0.039	J	0.59	1.1	0.30	0.698	4/7/22 17:43	BRF
1,2,4-Trimethylbenzene	0.022	0.035	0.015	J	0.11	0.17	0.076	0.698	4/7/22 17:43	BRF
1,3,5-Trimethylbenzene	ND	0.035	0.018		ND	0.17	0.091	0.698	4/7/22 17:43	BRF
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.698	4/7/22 17:43	BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	4/7/22 17:43	BRF
m&p-Xylene	0.090	0.070	0.039		0.39	0.30	0.17	0.698	4/7/22 17:43	BRF
o-Xylene	0.033	0.035	0.018	J	0.14	0.15	0.078	0.698	4/7/22 17:43	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	97.9	70-130	4/8/22 17:07
4-Bromofluorobenzene (1)	101	70-130	4/7/22 17:43

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 3 **-IA-DUP-03302022**
Sample ID: 22D0004-06
Sample Matrix: Indoor air
Sampled: 3/30/2022 00:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 1611
Canister Size: 6 liter
Flow Controller ID: 3363
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -5.5
Receipt Vacuum(in Hg): -4.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	Results	RL	MDL	Flag/Qual	Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	2.4	1.4	0.84		5.8	3.3	2.0	0.698	4/7/22 18:18	BRF
Benzene	0.40	0.035	0.026		1.3	0.11	0.084	0.698	4/7/22 18:18	BRF
Benzyl chloride	ND	0.070	0.031		ND	0.36	0.16	0.698	4/7/22 18:18	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	4/7/22 18:18	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	4/7/22 18:18	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	4/7/22 18:18	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	4/7/22 18:18	BRF
2-Butanone (MEK)	0.40	1.4	0.37	J	1.2	4.1	1.1	0.698	4/7/22 18:18	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	4/7/22 18:18	BRF
Carbon Tetrachloride	0.056	0.035	0.028		0.35	0.22	0.17	0.698	4/7/22 18:18	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	4/7/22 18:18	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	4/7/22 18:18	BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	4/7/22 18:18	BRF
Chloromethane	0.51	0.070	0.028		1.0	0.14	0.057	0.698	4/7/22 18:18	BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.079	0.698	4/7/22 18:18	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	4/7/22 18:18	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	4/7/22 18:18	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	4/7/22 18:18	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	4/7/22 18:18	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	4/7/22 18:18	BRF
Dichlorodifluoromethane (Freon 12)	0.48	0.035	0.034		2.4	0.17	0.17	0.698	4/7/22 18:18	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	4/7/22 18:18	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	4/7/22 18:18	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 18:18	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	4/7/22 18:18	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 18:18	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	4/7/22 18:18	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	4/7/22 18:18	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	4/7/22 18:18	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	4/7/22 18:18	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	4/7/22 18:18	BRF
Ethanol	59	8.0	3.5		110	15	6.6	4	4/8/22 17:35	BRF
Ethyl Acetate	0.27	0.35	0.18	J	0.96	1.3	0.64	0.698	4/7/22 18:18	BRF
Ethylbenzene	0.032	0.035	0.020	J	0.14	0.15	0.088	0.698	4/7/22 18:18	BRF
4-Ethyltoluene	ND	0.035	0.021		ND	0.17	0.11	0.698	4/7/22 18:18	BRF
Heptane	0.042	0.035	0.022		0.17	0.14	0.091	0.698	4/7/22 18:18	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	4/7/22 18:18	BRF
Hexane	0.30	1.4	0.18	J	1.1	4.9	0.64	0.698	4/7/22 18:18	BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.698	4/7/22 18:18	BRF
Isopropanol	0.32	1.4	0.24	J	0.79	3.4	0.59	0.698	4/7/22 18:18	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	4/7/22 18:18	BRF
Methylene Chloride	0.19	0.35	0.16	J	0.65	1.2	0.56	0.698	4/7/22 18:18	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	4/7/22 18:18	BRF
Naphthalene	0.043	0.035	0.022		0.23	0.18	0.12	0.698	4/7/22 18:18	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	4/7/22 18:18	BRF
Styrene	0.036	0.035	0.018		0.15	0.15	0.078	0.698	4/7/22 18:18	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	4/7/22 18:18	BRF

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 3 **-IA-DUP-03302022**
Sample ID: 22D0004-06
Sample Matrix: Indoor air
Sampled: 3/30/2022 00:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 1611
Canister Size: 6 liter
Flow Controller ID: 3363
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -5.5
Receipt Vacuum(in Hg): -4.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	0.029	0.035	0.027	J	0.19	0.24	0.18	0.698	4/7/22 18:18	BRF
Tetrahydrofuran	0.31	0.35	0.057	J	0.93	1.0	0.17	0.698	4/7/22 18:18	BRF
Toluene	0.24	0.035	0.020		0.89	0.13	0.075	0.698	4/7/22 18:18	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND	0.26	0.18	0.698	4/7/22 18:18	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	4/7/22 18:18	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	4/7/22 18:18	BRF
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.698	4/7/22 18:18	BRF
Trichlorofluoromethane (Freon 11)	0.26	0.14	0.041		1.4	0.78	0.23	0.698	4/7/22 18:18	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.078	0.14	0.039	J	0.60	1.1	0.30	0.698	4/7/22 18:18	BRF
1,2,4-Trimethylbenzene	ND	0.035	0.015		ND	0.17	0.076	0.698	4/7/22 18:18	BRF
1,3,5-Trimethylbenzene	ND	0.035	0.018		ND	0.17	0.091	0.698	4/7/22 18:18	BRF
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.698	4/7/22 18:18	BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	4/7/22 18:18	BRF
m&p-Xylene	0.087	0.070	0.039		0.38	0.30	0.17	0.698	4/7/22 18:18	BRF
o-Xylene	0.034	0.035	0.018	J	0.15	0.15	0.078	0.698	4/7/22 18:18	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	99.8	70-130	4/8/22 17:35
4-Bromofluorobenzene (1)	101	70-130	4/7/22 18:18

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 3 **-IA-2-03302022**
Sample ID: 22D0004-07
Sample Matrix: Indoor air
Sampled: 3/30/2022 12:56

Sample Description/Location:
Sub Description/Location:
Canister ID: 1876
Canister Size: 6 liter
Flow Controller ID: 3305
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -5.5
Receipt Vacuum(in Hg): -4.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	Results	RL	MDL	Flag/Qual	Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	1.8	1.4	0.84		4.4	3.3	2.0	0.698	4/7/22 18:54	BRF
Benzene	0.44	0.035	0.026		1.4	0.11	0.084	0.698	4/7/22 18:54	BRF
Benzyl chloride	ND	0.070	0.031		ND	0.36	0.16	0.698	4/7/22 18:54	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	4/7/22 18:54	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	4/7/22 18:54	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	4/7/22 18:54	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	4/7/22 18:54	BRF
2-Butanone (MEK)	ND	1.4	0.37		ND	4.1	1.1	0.698	4/7/22 18:54	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	4/7/22 18:54	BRF
Carbon Tetrachloride	0.063	0.035	0.028		0.40	0.22	0.17	0.698	4/7/22 18:54	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	4/7/22 18:54	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	4/7/22 18:54	BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	4/7/22 18:54	BRF
Chloromethane	0.51	0.070	0.028		1.1	0.14	0.057	0.698	4/7/22 18:54	BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.079	0.698	4/7/22 18:54	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	4/7/22 18:54	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	4/7/22 18:54	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	4/7/22 18:54	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	4/7/22 18:54	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	4/7/22 18:54	BRF
Dichlorodifluoromethane (Freon 12)	0.50	0.035	0.034		2.5	0.17	0.17	0.698	4/7/22 18:54	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	4/7/22 18:54	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	4/7/22 18:54	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 18:54	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	4/7/22 18:54	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 18:54	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	4/7/22 18:54	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	4/7/22 18:54	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	4/7/22 18:54	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	4/7/22 18:54	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	4/7/22 18:54	BRF
Ethanol	9.8	1.4	0.62		19	2.6	1.2	0.698	4/7/22 18:54	BRF
Ethyl Acetate	ND	0.35	0.18		ND	1.3	0.64	0.698	4/7/22 18:54	BRF
Ethylbenzene	0.029	0.035	0.020	J	0.13	0.15	0.088	0.698	4/7/22 18:54	BRF
4-Ethyltoluene	ND	0.035	0.021		ND	0.17	0.11	0.698	4/7/22 18:54	BRF
Heptane	0.034	0.035	0.022	J	0.14	0.14	0.091	0.698	4/7/22 18:54	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	4/7/22 18:54	BRF
Hexane	0.31	1.4	0.18	J	1.1	4.9	0.64	0.698	4/7/22 18:54	BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.698	4/7/22 18:54	BRF
Isopropanol	0.39	1.4	0.24	J	0.97	3.4	0.59	0.698	4/7/22 18:54	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	4/7/22 18:54	BRF
Methylene Chloride	0.17	0.35	0.16	J	0.60	1.2	0.56	0.698	4/7/22 18:54	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	4/7/22 18:54	BRF
Naphthalene	0.033	0.035	0.022	J	0.17	0.18	0.12	0.698	4/7/22 18:54	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	4/7/22 18:54	BRF
Styrene	ND	0.035	0.018		ND	0.15	0.078	0.698	4/7/22 18:54	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	4/7/22 18:54	BRF

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 3 **-IA-2-03302022**
Sample ID: 22D0004-07
Sample Matrix: Indoor air
Sampled: 3/30/2022 12:56

Sample Description/Location:
Sub Description/Location:
Canister ID: 1876
Canister Size: 6 liter
Flow Controller ID: 3305
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -5.5
Receipt Vacuum(in Hg): -4.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	0.027	0.035	0.027	J	0.18	0.24	0.18	0.698	4/7/22 18:54	BRF
Tetrahydrofuran	0.15	0.35	0.057	J	0.43	1.0	0.17	0.698	4/7/22 18:54	BRF
Toluene	0.22	0.035	0.020		0.81	0.13	0.075	0.698	4/7/22 18:54	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND	0.26	0.18	0.698	4/7/22 18:54	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	4/7/22 18:54	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	4/7/22 18:54	BRF
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.698	4/7/22 18:54	BRF
Trichlorofluoromethane (Freon 11)	0.24	0.14	0.041		1.3	0.78	0.23	0.698	4/7/22 18:54	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.082	0.14	0.039	J	0.63	1.1	0.30	0.698	4/7/22 18:54	BRF
1,2,4-Trimethylbenzene	0.016	0.035	0.015	J	0.079	0.17	0.076	0.698	4/7/22 18:54	BRF
1,3,5-Trimethylbenzene	ND	0.035	0.018		ND	0.17	0.091	0.698	4/7/22 18:54	BRF
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.698	4/7/22 18:54	BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	4/7/22 18:54	BRF
m&p-Xylene	0.090	0.070	0.039		0.39	0.30	0.17	0.698	4/7/22 18:54	BRF
o-Xylene	0.031	0.035	0.018	J	0.14	0.15	0.078	0.698	4/7/22 18:54	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	103	70-130	4/7/22 18:54

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 4 **-IA-1-03302022**
Sample ID: 22D0004-09
Sample Matrix: Indoor air
Sampled: 3/30/2022 13:18

Sample Description/Location:
Sub Description/Location:
Canister ID: 1951
Canister Size: 6 liter
Flow Controller ID: 3468
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -9.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

		ppbv				ug/m3			Date/Time	
Analyte	Results	RL	MDL	Flag/Qual	Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	4.1	1.4	0.84		9.7	3.3	2.0	0.698	4/7/22 19:29	BRF
Benzene	0.15	0.035	0.026		0.47	0.11	0.084	0.698	4/7/22 19:29	BRF
Benzyl chloride	ND	0.070	0.031		ND	0.36	0.16	0.698	4/7/22 19:29	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	4/7/22 19:29	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	4/7/22 19:29	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	4/7/22 19:29	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	4/7/22 19:29	BRF
2-Butanone (MEK)	0.60	1.4	0.37	J	1.8	4.1	1.1	0.698	4/7/22 19:29	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	4/7/22 19:29	BRF
Carbon Tetrachloride	0.078	0.035	0.028		0.49	0.22	0.17	0.698	4/7/22 19:29	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	4/7/22 19:29	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	4/7/22 19:29	BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	4/7/22 19:29	BRF
Chloromethane	0.53	0.070	0.028		1.1	0.14	0.057	0.698	4/7/22 19:29	BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.079	0.698	4/7/22 19:29	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	4/7/22 19:29	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	4/7/22 19:29	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	4/7/22 19:29	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	4/7/22 19:29	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	4/7/22 19:29	BRF
Dichlorodifluoromethane (Freon 12)	0.49	0.035	0.034		2.4	0.17	0.17	0.698	4/7/22 19:29	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	4/7/22 19:29	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	4/7/22 19:29	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 19:29	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	4/7/22 19:29	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 19:29	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	4/7/22 19:29	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	4/7/22 19:29	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	4/7/22 19:29	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	4/7/22 19:29	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	4/7/22 19:29	BRF
Ethanol	91	8.0	3.5		170	15	6.6	4	4/8/22 18:04	BRF
Ethyl Acetate	0.19	0.35	0.18	J	0.69	1.3	0.64	0.698	4/7/22 19:29	BRF
Ethylbenzene	0.053	0.035	0.020		0.23	0.15	0.088	0.698	4/7/22 19:29	BRF
4-Ethyltoluene	ND	0.035	0.021		ND	0.17	0.11	0.698	4/7/22 19:29	BRF
Heptane	0.043	0.035	0.022		0.17	0.14	0.091	0.698	4/7/22 19:29	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	4/7/22 19:29	BRF
Hexane	0.31	1.4	0.18	J	1.1	4.9	0.64	0.698	4/7/22 19:29	BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.698	4/7/22 19:29	BRF
Isopropanol	0.58	1.4	0.24	J	1.4	3.4	0.59	0.698	4/7/22 19:29	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	4/7/22 19:29	BRF
Methylene Chloride	0.35	0.35	0.16	J	1.2	1.2	0.56	0.698	4/7/22 19:29	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	4/7/22 19:29	BRF
Naphthalene	ND	0.035	0.022		ND	0.18	0.12	0.698	4/7/22 19:29	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	4/7/22 19:29	BRF
Styrene	0.033	0.035	0.018	J	0.14	0.15	0.078	0.698	4/7/22 19:29	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	4/7/22 19:29	BRF

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 4 **-IA-1-03302022**
Sample ID: 22D0004-09
Sample Matrix: Indoor air
Sampled: 3/30/2022 13:18

Sample Description/Location:
Sub Description/Location:
Canister ID: 1951
Canister Size: 6 liter
Flow Controller ID: 3468
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -9.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	ppbv MDL	Flag/Qual	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Dilution	Date/Time Analyzed	Analyst
Tetrachloroethylene	ND	0.035	0.027		ND	0.24	0.18	0.698	4/7/22 19:29	BRF
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.698	4/7/22 19:29	BRF
Toluene	0.37	0.035	0.020		1.4	0.13	0.075	0.698	4/7/22 19:29	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND	0.26	0.18	0.698	4/7/22 19:29	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	4/7/22 19:29	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	4/7/22 19:29	BRF
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.698	4/7/22 19:29	BRF
Trichlorofluoromethane (Freon 11)	0.24	0.14	0.041		1.3	0.78	0.23	0.698	4/7/22 19:29	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.077	0.14	0.039	J	0.59	1.1	0.30	0.698	4/7/22 19:29	BRF
1,2,4-Trimethylbenzene	0.052	0.035	0.015		0.26	0.17	0.076	0.698	4/7/22 19:29	BRF
1,3,5-Trimethylbenzene	ND	0.035	0.018		ND	0.17	0.091	0.698	4/7/22 19:29	BRF
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.698	4/7/22 19:29	BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	4/7/22 19:29	BRF
m&p-Xylene	0.18	0.070	0.039		0.78	0.30	0.17	0.698	4/7/22 19:29	BRF
o-Xylene	0.079	0.035	0.018		0.34	0.15	0.078	0.698	4/7/22 19:29	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	102	70-130	4/7/22 19:29
4-Bromofluorobenzene (1)	96.6	70-130	4/8/22 18:04

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 4 **-OA-1-03302022**
Sample ID: 22D0004-10
Sample Matrix: Ambient Air
Sampled: 3/30/2022 13:30

Sample Description/Location:
Sub Description/Location:
Canister ID: 1071
Canister Size: 6 liter
Flow Controller ID: 3676
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -7.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

		ppbv				ug/m3			Date/Time	
Analyte	Results	RL	MDL	Flag/Qual	Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	1.5	1.4	0.84		3.5	3.3	2.0	0.698	4/7/22 20:05	BRF
Benzene	0.14	0.035	0.026		0.45	0.11	0.084	0.698	4/7/22 20:05	BRF
Benzyl chloride	ND	0.070	0.031		ND	0.36	0.16	0.698	4/7/22 20:05	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	4/7/22 20:05	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	4/7/22 20:05	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	4/7/22 20:05	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	4/7/22 20:05	BRF
2-Butanone (MEK)	ND	1.4	0.37		ND	4.1	1.1	0.698	4/7/22 20:05	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	4/7/22 20:05	BRF
Carbon Tetrachloride	0.085	0.035	0.028		0.54	0.22	0.17	0.698	4/7/22 20:05	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	4/7/22 20:05	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	4/7/22 20:05	BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	4/7/22 20:05	BRF
Chloromethane	0.55	0.070	0.028		1.1	0.14	0.057	0.698	4/7/22 20:05	BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.079	0.698	4/7/22 20:05	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	4/7/22 20:05	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	4/7/22 20:05	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	4/7/22 20:05	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	4/7/22 20:05	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	4/7/22 20:05	BRF
Dichlorodifluoromethane (Freon 12)	0.50	0.035	0.034		2.5	0.17	0.17	0.698	4/7/22 20:05	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	4/7/22 20:05	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	4/7/22 20:05	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 20:05	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	4/7/22 20:05	BRF
trans-1,2-Dichloroethylene	0.40	0.035	0.027		1.6	0.14	0.11	0.698	4/7/22 20:05	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	4/7/22 20:05	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	4/7/22 20:05	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	4/7/22 20:05	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	4/7/22 20:05	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	4/7/22 20:05	BRF
Ethanol	1.4	1.4	0.62		2.7	2.6	1.2	0.698	4/7/22 20:05	BRF
Ethyl Acetate	ND	0.35	0.18		ND	1.3	0.64	0.698	4/7/22 20:05	BRF
Ethylbenzene	ND	0.035	0.020		ND	0.15	0.088	0.698	4/7/22 20:05	BRF
4-Ethyltoluene	ND	0.035	0.021		ND	0.17	0.11	0.698	4/7/22 20:05	BRF
Heptane	ND	0.035	0.022		ND	0.14	0.091	0.698	4/7/22 20:05	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	4/7/22 20:05	BRF
Hexane	0.33	1.4	0.18	J	1.2	4.9	0.64	0.698	4/7/22 20:05	BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.698	4/7/22 20:05	BRF
Isopropanol	0.53	1.4	0.24	J	1.3	3.4	0.59	0.698	4/7/22 20:05	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	4/7/22 20:05	BRF
Methylene Chloride	0.35	0.35	0.16		1.2	1.2	0.56	0.698	4/7/22 20:05	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	4/7/22 20:05	BRF
Naphthalene	ND	0.035	0.022		ND	0.18	0.12	0.698	4/7/22 20:05	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	4/7/22 20:05	BRF
Styrene	ND	0.035	0.018		ND	0.15	0.078	0.698	4/7/22 20:05	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	4/7/22 20:05	BRF

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 4 **-OA-1-03302022**
Sample ID: 22D0004-10
Sample Matrix: Ambient Air
Sampled: 3/30/2022 13:30

Sample Description/Location:
Sub Description/Location:
Canister ID: 1071
Canister Size: 6 liter
Flow Controller ID: 3676
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -7.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	ppbv MDL	Flag/Qual	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Dilution	Date/Time Analyzed	Analyst
Tetrachloroethylene	ND	0.035	0.027		ND	0.24	0.18	0.698	4/7/22 20:05	BRF
Tetrahydrofuran	0.093	0.35	0.057	J	0.27	1.0	0.17	0.698	4/7/22 20:05	BRF
Toluene	0.15	0.035	0.020		0.57	0.13	0.075	0.698	4/7/22 20:05	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND	0.26	0.18	0.698	4/7/22 20:05	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	4/7/22 20:05	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	4/7/22 20:05	BRF
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.698	4/7/22 20:05	BRF
Trichlorofluoromethane (Freon 11)	0.25	0.14	0.041		1.4	0.78	0.23	0.698	4/7/22 20:05	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.096	0.14	0.039	J	0.73	1.1	0.30	0.698	4/7/22 20:05	BRF
1,2,4-Trimethylbenzene	ND	0.035	0.015		ND	0.17	0.076	0.698	4/7/22 20:05	BRF
1,3,5-Trimethylbenzene	ND	0.035	0.018		ND	0.17	0.091	0.698	4/7/22 20:05	BRF
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.698	4/7/22 20:05	BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	4/7/22 20:05	BRF
m&p-Xylene	0.061	0.070	0.039	J	0.26	0.30	0.17	0.698	4/7/22 20:05	BRF
o-Xylene	0.023	0.035	0.018	J	0.100	0.15	0.078	0.698	4/7/22 20:05	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	101	70-130	4/7/22 20:05

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 4 **-IA-2-03302022**
Sample ID: 22D0004-11
Sample Matrix: Indoor air
Sampled: 3/30/2022 13:24

Sample Description/Location:
Sub Description/Location:
Canister ID: 1626
Canister Size: 6 liter
Flow Controller ID: 3510
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -8.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	2.9	1.4	0.84		6.9	3.3	2.0	0.698	4/7/22 20:40	BRF
Benzene	0.15	0.035	0.026		0.46	0.11	0.084	0.698	4/7/22 20:40	BRF
Benzyl chloride	ND	0.070	0.031		ND	0.36	0.16	0.698	4/7/22 20:40	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	4/7/22 20:40	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	4/7/22 20:40	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	4/7/22 20:40	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	4/7/22 20:40	BRF
2-Butanone (MEK)	ND	1.4	0.37		ND	4.1	1.1	0.698	4/7/22 20:40	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	4/7/22 20:40	BRF
Carbon Tetrachloride	0.075	0.035	0.028		0.47	0.22	0.17	0.698	4/7/22 20:40	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	4/7/22 20:40	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	4/7/22 20:40	BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	4/7/22 20:40	BRF
Chloromethane	0.54	0.070	0.028		1.1	0.14	0.057	0.698	4/7/22 20:40	BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.079	0.698	4/7/22 20:40	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	4/7/22 20:40	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	4/7/22 20:40	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	4/7/22 20:40	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	4/7/22 20:40	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	4/7/22 20:40	BRF
Dichlorodifluoromethane (Freon 12)	0.49	0.035	0.034		2.4	0.17	0.17	0.698	4/7/22 20:40	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	4/7/22 20:40	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	4/7/22 20:40	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 20:40	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	4/7/22 20:40	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 20:40	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	4/7/22 20:40	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	4/7/22 20:40	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	4/7/22 20:40	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	4/7/22 20:40	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	4/7/22 20:40	BRF
Ethanol	44	8.0	3.5		82	15	6.6	4	4/8/22 18:33	BRF
Ethyl Acetate	0.18	0.35	0.18	J	0.65	1.3	0.64	0.698	4/7/22 20:40	BRF
Ethylbenzene	0.038	0.035	0.020		0.16	0.15	0.088	0.698	4/7/22 20:40	BRF
4-Ethyltoluene	ND	0.035	0.021		ND	0.17	0.11	0.698	4/7/22 20:40	BRF
Heptane	0.040	0.035	0.022		0.17	0.14	0.091	0.698	4/7/22 20:40	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	4/7/22 20:40	BRF
Hexane	0.35	1.4	0.18	J	1.2	4.9	0.64	0.698	4/7/22 20:40	BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.698	4/7/22 20:40	BRF
Isopropanol	0.75	1.4	0.24	J	1.9	3.4	0.59	0.698	4/7/22 20:40	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	4/7/22 20:40	BRF
Methylene Chloride	0.54	0.35	0.16		1.9	1.2	0.56	0.698	4/7/22 20:40	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	4/7/22 20:40	BRF
Naphthalene	ND	0.035	0.022		ND	0.18	0.12	0.698	4/7/22 20:40	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	4/7/22 20:40	BRF
Styrene	0.043	0.035	0.018		0.18	0.15	0.078	0.698	4/7/22 20:40	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	4/7/22 20:40	BRF

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 4 **-IA-2-03302022**
Sample ID: 22D0004-11
Sample Matrix: Indoor air
Sampled: 3/30/2022 13:24

Sample Description/Location:
Sub Description/Location:
Canister ID: 1626
Canister Size: 6 liter
Flow Controller ID: 3510
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -8.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	ppbv MDL	Flag/Qual	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Dilution	Date/Time Analyzed	Analyst
Tetrachloroethylene	ND	0.035	0.027		ND	0.24	0.18	0.698	4/7/22 20:40	BRF
Tetrahydrofuran	0.11	0.35	0.057	J	0.32	1.0	0.17	0.698	4/7/22 20:40	BRF
Toluene	0.38	0.035	0.020		1.4	0.13	0.075	0.698	4/7/22 20:40	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND	0.26	0.18	0.698	4/7/22 20:40	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	4/7/22 20:40	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	4/7/22 20:40	BRF
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.698	4/7/22 20:40	BRF
Trichlorofluoromethane (Freon 11)	0.25	0.14	0.041		1.4	0.78	0.23	0.698	4/7/22 20:40	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.080	0.14	0.039	J	0.61	1.1	0.30	0.698	4/7/22 20:40	BRF
1,2,4-Trimethylbenzene	0.028	0.035	0.015	J	0.14	0.17	0.076	0.698	4/7/22 20:40	BRF
1,3,5-Trimethylbenzene	ND	0.035	0.018		ND	0.17	0.091	0.698	4/7/22 20:40	BRF
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.698	4/7/22 20:40	BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	4/7/22 20:40	BRF
m&p-Xylene	0.11	0.070	0.039		0.48	0.30	0.17	0.698	4/7/22 20:40	BRF
o-Xylene	0.044	0.035	0.018		0.19	0.15	0.078	0.698	4/7/22 20:40	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	98.7	70-130	4/8/22 18:33
4-Bromofluorobenzene (1)	101	70-130	4/7/22 20:40

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 4 **-IA-3-03302022**
Sample ID: 22D0004-12
Sample Matrix: Indoor air
Sampled: 3/30/2022 13:25

Sample Description/Location:
Sub Description/Location:
Canister ID: 2154
Canister Size: 6 liter
Flow Controller ID: 3434
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -7.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	5.0	1.4	0.84		12	3.3	2.0	0.698	4/7/22 21:15	BRF
Benzene	0.15	0.035	0.026		0.46	0.11	0.084	0.698	4/7/22 21:15	BRF
Benzyl chloride	ND	0.070	0.031		ND	0.36	0.16	0.698	4/7/22 21:15	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	4/7/22 21:15	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	4/7/22 21:15	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	4/7/22 21:15	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	4/7/22 21:15	BRF
2-Butanone (MEK)	0.56	1.4	0.37	J	1.6	4.1	1.1	0.698	4/7/22 21:15	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	4/7/22 21:15	BRF
Carbon Tetrachloride	0.074	0.035	0.028		0.47	0.22	0.17	0.698	4/7/22 21:15	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	4/7/22 21:15	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	4/7/22 21:15	BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	4/7/22 21:15	BRF
Chloromethane	0.52	0.070	0.028		1.1	0.14	0.057	0.698	4/7/22 21:15	BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.079	0.698	4/7/22 21:15	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	4/7/22 21:15	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	4/7/22 21:15	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	4/7/22 21:15	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	4/7/22 21:15	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	4/7/22 21:15	BRF
Dichlorodifluoromethane (Freon 12)	0.50	0.035	0.034		2.5	0.17	0.17	0.698	4/7/22 21:15	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	4/7/22 21:15	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	4/7/22 21:15	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 21:15	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	4/7/22 21:15	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 21:15	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	4/7/22 21:15	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	4/7/22 21:15	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	4/7/22 21:15	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	4/7/22 21:15	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	4/7/22 21:15	BRF
Ethanol	13	1.4	0.62		24	2.6	1.2	0.698	4/7/22 21:15	BRF
Ethyl Acetate	ND	0.35	0.18		ND	1.3	0.64	0.698	4/7/22 21:15	BRF
Ethylbenzene	0.029	0.035	0.020	J	0.13	0.15	0.088	0.698	4/7/22 21:15	BRF
4-Ethyltoluene	ND	0.035	0.021		ND	0.17	0.11	0.698	4/7/22 21:15	BRF
Heptane	0.038	0.035	0.022		0.16	0.14	0.091	0.698	4/7/22 21:15	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	4/7/22 21:15	BRF
Hexane	0.34	1.4	0.18	J	1.2	4.9	0.64	0.698	4/7/22 21:15	BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.698	4/7/22 21:15	BRF
Isopropanol	0.64	1.4	0.24	J	1.6	3.4	0.59	0.698	4/7/22 21:15	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	4/7/22 21:15	BRF
Methylene Chloride	0.44	0.35	0.16		1.5	1.2	0.56	0.698	4/7/22 21:15	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	4/7/22 21:15	BRF
Naphthalene	ND	0.035	0.022		ND	0.18	0.12	0.698	4/7/22 21:15	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	4/7/22 21:15	BRF
Styrene	ND	0.035	0.018		ND	0.15	0.078	0.698	4/7/22 21:15	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	4/7/22 21:15	BRF

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 4 **-IA-3-03302022**
Sample ID: 22D0004-12
Sample Matrix: Indoor air
Sampled: 3/30/2022 13:25

Sample Description/Location:
Sub Description/Location:
Canister ID: 2154
Canister Size: 6 liter
Flow Controller ID: 3434
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -7.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	ppbv MDL	Flag/Qual	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Dilution	Date/Time Analyzed	Analyst
Tetrachloroethylene	ND	0.035	0.027		ND	0.24	0.18	0.698	4/7/22 21:15	BRF
Tetrahydrofuran	0.096	0.35	0.057	J	0.28	1.0	0.17	0.698	4/7/22 21:15	BRF
Toluene	0.29	0.035	0.020		1.1	0.13	0.075	0.698	4/7/22 21:15	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND	0.26	0.18	0.698	4/7/22 21:15	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	4/7/22 21:15	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	4/7/22 21:15	BRF
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.698	4/7/22 21:15	BRF
Trichlorofluoromethane (Freon 11)	0.24	0.14	0.041		1.3	0.78	0.23	0.698	4/7/22 21:15	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.063	0.14	0.039	J	0.49	1.1	0.30	0.698	4/7/22 21:15	BRF
1,2,4-Trimethylbenzene	ND	0.035	0.015		ND	0.17	0.076	0.698	4/7/22 21:15	BRF
1,3,5-Trimethylbenzene	ND	0.035	0.018		ND	0.17	0.091	0.698	4/7/22 21:15	BRF
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.698	4/7/22 21:15	BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	4/7/22 21:15	BRF
m&p-Xylene	0.092	0.070	0.039		0.40	0.30	0.17	0.698	4/7/22 21:15	BRF
o-Xylene	0.031	0.035	0.018	J	0.14	0.15	0.078	0.698	4/7/22 21:15	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	101	70-130	4/7/22 21:15

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 4 **-IA-4-03302022**
Sample ID: 22D0004-13
Sample Matrix: Indoor air
Sampled: 3/30/2022 13:26

Sample Description/Location:
Sub Description/Location:
Canister ID: 2210
Canister Size: 6 liter
Flow Controller ID: 3058
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -6
Receipt Vacuum(in Hg): -5.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

		ppbv				ug/m3			Date/Time	
Analyte	Results	RL	MDL	Flag/Qual	Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	4.3	1.4	0.84		10	3.3	2.0	0.698	4/7/22 21:50	BRF
Benzene	0.20	0.035	0.026		0.63	0.11	0.084	0.698	4/7/22 21:50	BRF
Benzyl chloride	ND	0.070	0.031		ND	0.36	0.16	0.698	4/7/22 21:50	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	4/7/22 21:50	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	4/7/22 21:50	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	4/7/22 21:50	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	4/7/22 21:50	BRF
2-Butanone (MEK)	0.48	1.4	0.37	J	1.4	4.1	1.1	0.698	4/7/22 21:50	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	4/7/22 21:50	BRF
Carbon Tetrachloride	0.073	0.035	0.028		0.46	0.22	0.17	0.698	4/7/22 21:50	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	4/7/22 21:50	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	4/7/22 21:50	BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	4/7/22 21:50	BRF
Chloromethane	0.46	0.070	0.028		0.96	0.14	0.057	0.698	4/7/22 21:50	BRF
Cyclohexane	0.074	0.035	0.023		0.25	0.12	0.079	0.698	4/7/22 21:50	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	4/7/22 21:50	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	4/7/22 21:50	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	4/7/22 21:50	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	4/7/22 21:50	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	4/7/22 21:50	BRF
Dichlorodifluoromethane (Freon 12)	0.50	0.035	0.034		2.5	0.17	0.17	0.698	4/7/22 21:50	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	4/7/22 21:50	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	4/7/22 21:50	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 21:50	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	4/7/22 21:50	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 21:50	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	4/7/22 21:50	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	4/7/22 21:50	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	4/7/22 21:50	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	4/7/22 21:50	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	4/7/22 21:50	BRF
Ethanol	4.2	1.4	0.62		8.0	2.6	1.2	0.698	4/7/22 21:50	BRF
Ethyl Acetate	1.1	0.35	0.18		4.1	1.3	0.64	0.698	4/7/22 21:50	BRF
Ethylbenzene	0.079	0.035	0.020		0.34	0.15	0.088	0.698	4/7/22 21:50	BRF
4-Ethyltoluene	ND	0.035	0.021		ND	0.17	0.11	0.698	4/7/22 21:50	BRF
Heptane	0.12	0.035	0.022		0.47	0.14	0.091	0.698	4/7/22 21:50	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	4/7/22 21:50	BRF
Hexane	0.74	1.4	0.18	J	2.6	4.9	0.64	0.698	4/7/22 21:50	BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.698	4/7/22 21:50	BRF
Isopropanol	1.4	1.4	0.24	J	3.4	3.4	0.59	0.698	4/7/22 21:50	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	4/7/22 21:50	BRF
Methylene Chloride	1.1	0.35	0.16		3.8	1.2	0.56	0.698	4/7/22 21:50	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	4/7/22 21:50	BRF
Naphthalene	ND	0.035	0.022		ND	0.18	0.12	0.698	4/7/22 21:50	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	4/7/22 21:50	BRF
Styrene	0.030	0.035	0.018	J	0.13	0.15	0.078	0.698	4/7/22 21:50	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	4/7/22 21:50	BRF

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 4 **-IA-4-03302022**
Sample ID: 22D0004-13
Sample Matrix: Indoor air
Sampled: 3/30/2022 13:26

Sample Description/Location:
Sub Description/Location:
Canister ID: 2210
Canister Size: 6 liter
Flow Controller ID: 3058
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -6
Receipt Vacuum(in Hg): -5.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	ppbv MDL	Flag/Qual	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Dilution	Date/Time Analyzed	Analyst
Tetrachloroethylene	0.060	0.035	0.027		0.41	0.24	0.18	0.698	4/7/22 21:50	BRF
Tetrahydrofuran	0.16	0.35	0.057	J	0.46	1.0	0.17	0.698	4/7/22 21:50	BRF
Toluene	1.3	0.035	0.020		4.8	0.13	0.075	0.698	4/7/22 21:50	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND	0.26	0.18	0.698	4/7/22 21:50	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	4/7/22 21:50	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	4/7/22 21:50	BRF
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.698	4/7/22 21:50	BRF
Trichlorofluoromethane (Freon 11)	0.24	0.14	0.041		1.4	0.78	0.23	0.698	4/7/22 21:50	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.079	0.14	0.039	J	0.60	1.1	0.30	0.698	4/7/22 21:50	BRF
1,2,4-Trimethylbenzene	0.040	0.035	0.015		0.20	0.17	0.076	0.698	4/7/22 21:50	BRF
1,3,5-Trimethylbenzene	ND	0.035	0.018		ND	0.17	0.091	0.698	4/7/22 21:50	BRF
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.698	4/7/22 21:50	BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	4/7/22 21:50	BRF
m&p-Xylene	0.23	0.070	0.039		1.0	0.30	0.17	0.698	4/7/22 21:50	BRF
o-Xylene	0.083	0.035	0.018		0.36	0.15	0.078	0.698	4/7/22 21:50	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	103	70-130	4/7/22 21:50

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 5 **-SS-1-03302022**
Sample ID: 22D0004-14
Sample Matrix: Sub Slab
Sampled: 3/30/2022 15:25

Sample Description/Location:
Sub Description/Location:
Canister ID: 2205
Canister Size: 6 liter
Flow Controller ID: 3351
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -13
Receipt Vacuum(in Hg): -11.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Sample Flags: RL-11

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	21	11	6.4		50	25	15	5.33	4/12/22 0:21	BRF
Benzene	0.30	0.27	0.20		0.97	0.85	0.65	5.33	4/12/22 0:21	BRF
Benzyl chloride	ND	0.27	0.24		ND	1.4	1.2	5.33	4/12/22 0:21	BRF
Bromodichloromethane	0.19	0.27	0.19	J	1.3	1.8	1.3	5.33	4/12/22 0:21	BRF
Bromoform	ND	0.27	0.18		ND	2.8	1.9	5.33	4/12/22 0:21	BRF
Bromomethane	ND	0.27	0.22		ND	1.0	0.84	5.33	4/12/22 0:21	BRF
1,3-Butadiene	ND	0.27	0.22		ND	0.59	0.49	5.33	4/12/22 0:21	BRF
2-Butanone (MEK)	ND	11	2.8		ND	31	8.4	5.33	4/12/22 0:21	BRF
Carbon Disulfide	0.58	2.7	0.25	J	1.8	8.3	0.77	5.33	4/12/22 0:21	BRF
Carbon Tetrachloride	ND	0.27	0.21		ND	1.7	1.3	5.33	4/12/22 0:21	BRF
Chlorobenzene	ND	0.27	0.18		ND	1.2	0.82	5.33	4/12/22 0:21	BRF
Chloroethane	ND	0.27	0.19		ND	0.70	0.51	5.33	4/12/22 0:21	BRF
Chloroform	12	0.27	0.25		56	1.3	1.2	5.33	4/12/22 0:21	BRF
Chloromethane	ND	0.53	0.21		ND	1.1	0.44	5.33	4/12/22 0:21	BRF
Cyclohexane	ND	0.27	0.18		ND	0.92	0.61	5.33	4/12/22 0:21	BRF
Dibromochloromethane	ND	0.27	0.18		ND	2.3	1.5	5.33	4/12/22 0:21	BRF
1,2-Dibromoethane (EDB)	ND	0.27	0.16		ND	2.0	1.2	5.33	4/12/22 0:21	BRF
1,2-Dichlorobenzene	ND	0.27	0.15		ND	1.6	0.92	5.33	4/12/22 0:21	BRF
1,3-Dichlorobenzene	ND	0.27	0.15		ND	1.6	0.89	5.33	4/12/22 0:21	BRF
1,4-Dichlorobenzene	ND	0.27	0.17		ND	1.6	1.0	5.33	4/12/22 0:21	BRF
Dichlorodifluoromethane (Freon 12)	0.74	0.27	0.26		3.6	1.3	1.3	5.33	4/12/22 0:21	BRF
1,1-Dichloroethane	ND	0.27	0.23		ND	1.1	0.94	5.33	4/12/22 0:21	BRF
1,2-Dichloroethane	ND	0.27	0.24		ND	1.1	0.98	5.33	4/12/22 0:21	BRF
1,1-Dichloroethylene	ND	0.27	0.20		ND	1.1	0.81	5.33	4/12/22 0:21	BRF
cis-1,2-Dichloroethylene	ND	0.27	0.19		ND	1.1	0.77	5.33	4/12/22 0:21	BRF
trans-1,2-Dichloroethylene	ND	0.27	0.21		ND	1.1	0.83	5.33	4/12/22 0:21	BRF
1,2-Dichloropropane	ND	0.27	0.14		ND	1.2	0.67	5.33	4/12/22 0:21	BRF
cis-1,3-Dichloropropene	ND	0.27	0.14		ND	1.2	0.63	5.33	4/12/22 0:21	BRF
trans-1,3-Dichloropropene	ND	0.27	0.14		ND	1.2	0.62	5.33	4/12/22 0:21	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.27	0.26		ND	1.9	1.8	5.33	4/12/22 0:21	BRF
1,4-Dioxane	ND	2.7	0.22		ND	9.6	0.80	5.33	4/12/22 0:21	BRF
Ethanol	7.3	11	4.7	J	14	20	8.9	5.33	4/12/22 0:21	BRF
Ethyl Acetate	ND	2.7	1.3		ND	9.6	4.9	5.33	4/12/22 0:21	BRF
Ethylbenzene	1.1	0.27	0.16		4.8	1.2	0.68	5.33	4/12/22 0:21	BRF
4-Ethyltoluene	0.55	0.27	0.16		2.7	1.3	0.80	5.33	4/12/22 0:21	BRF
Heptane	1.1	0.27	0.17		4.6	1.1	0.70	5.33	4/12/22 0:21	BRF
Hexachlorobutadiene	ND	0.27	0.22		ND	2.8	2.3	5.33	4/12/22 0:21	BRF
Hexane	ND	11	1.4		ND	38	4.9	5.33	4/12/22 0:21	BRF
2-Hexanone (MBK)	ND	0.27	0.13		ND	1.1	0.55	5.33	4/12/22 0:21	BRF
Isopropanol	ND	11	1.8		ND	26	4.5	5.33	4/12/22 0:21	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.27	0.21		ND	0.96	0.74	5.33	4/12/22 0:21	BRF
Methylene Chloride	ND	2.7	1.2		ND	9.3	4.3	5.33	4/12/22 0:21	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.27	0.14		ND	1.1	0.56	5.33	4/12/22 0:21	BRF
Naphthalene	ND	0.27	0.17		ND	1.4	0.89	5.33	4/12/22 0:21	BRF
Propene	ND	11	2.3		ND	18	4.0	5.33	4/12/22 0:21	BRF
Styrene	ND	0.27	0.14		ND	1.1	0.60	5.33	4/12/22 0:21	BRF
1,1,2,2-Tetrachloroethane	ND	0.27	0.14		ND	1.8	0.99	5.33	4/12/22 0:21	BRF

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 5 **-SS-1-03302022**
Sample ID: 22D0004-14
Sample Matrix: Sub Slab
Sampled: 3/30/2022 15:25

Sample Description/Location:
Sub Description/Location:
Canister ID: 2205
Canister Size: 6 liter
Flow Controller ID: 3351
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -13
Receipt Vacuum(in Hg): -11.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Sample Flags: RL-11

Analyte	ppbv Results	ppbv RL	ppbv MDL	Flag/Qual	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Dilution	Date/Time Analyzed	Analyst
Tetrachloroethylene	160	0.27	0.20		1100	1.8	1.4	5.33	4/12/22 0:21	BRF
Tetrahydrofuran	ND	2.7	0.44		ND	7.9	1.3	5.33	4/12/22 0:21	BRF
Toluene	3.7	0.27	0.15		14	1.0	0.57	5.33	4/12/22 0:21	BRF
1,2,4-Trichlorobenzene	ND	0.27	0.19		ND	2.0	1.4	5.33	4/12/22 0:21	BRF
1,1,1-Trichloroethane	ND	0.27	0.21		ND	1.5	1.1	5.33	4/12/22 0:21	BRF
1,1,2-Trichloroethane	ND	0.27	0.19		ND	1.5	1.0	5.33	4/12/22 0:21	BRF
Trichloroethylene	ND	0.27	0.18		ND	1.4	0.97	5.33	4/12/22 0:21	BRF
Trichlorofluoromethane (Freon 11)	0.33	1.1	0.32	J	1.9	6.0	1.8	5.33	4/12/22 0:21	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.1	0.30		ND	8.2	2.3	5.33	4/12/22 0:21	BRF
1,2,4-Trimethylbenzene	2.6	0.27	0.12		13	1.3	0.58	5.33	4/12/22 0:21	BRF
1,3,5-Trimethylbenzene	0.70	0.27	0.14		3.4	1.3	0.69	5.33	4/12/22 0:21	BRF
Vinyl Acetate	ND	5.3	1.4		ND	19	5.0	5.33	4/12/22 0:21	BRF
Vinyl Chloride	ND	0.27	0.24		ND	0.68	0.61	5.33	4/12/22 0:21	BRF
m&p-Xylene	5.5	0.53	0.30		24	2.3	1.3	5.33	4/12/22 0:21	BRF
o-Xylene	1.9	0.27	0.14		8.3	1.2	0.59	5.33	4/12/22 0:21	BRF

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	93.9	70-130	4/12/22 0:21	

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 5 **-IA-1-03302022**
Sample ID: 22D0004-15
Sample Matrix: Indoor air
Sampled: 3/30/2022 15:26

Sample Description/Location:
Sub Description/Location:
Canister ID: 1839
Canister Size: 6 liter
Flow Controller ID: 3086
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -28.5
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -7.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

		ppbv				ug/m3			Date/Time	
Analyte	Results	RL	MDL	Flag/Qual	Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	71	8.0	4.8		170	19	11	4	4/8/22 19:01	BRF
Benzene	3.8	0.035	0.026		12	0.11	0.084	0.698	4/7/22 22:25	BRF
Benzyl chloride	ND	0.070	0.031		ND	0.36	0.16	0.698	4/7/22 22:25	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	4/7/22 22:25	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	4/7/22 22:25	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	4/7/22 22:25	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	4/7/22 22:25	BRF
2-Butanone (MEK)	1.6	1.4	0.37		4.6	4.1	1.1	0.698	4/7/22 22:25	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	4/7/22 22:25	BRF
Carbon Tetrachloride	0.068	0.035	0.028		0.43	0.22	0.17	0.698	4/7/22 22:25	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	4/7/22 22:25	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	4/7/22 22:25	BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	4/7/22 22:25	BRF
Chloromethane	0.58	0.070	0.028		1.2	0.14	0.057	0.698	4/7/22 22:25	BRF
Cyclohexane	5.2	0.035	0.023		18	0.12	0.079	0.698	4/7/22 22:25	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	4/7/22 22:25	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	4/7/22 22:25	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	4/7/22 22:25	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	4/7/22 22:25	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	4/7/22 22:25	BRF
Dichlorodifluoromethane (Freon 12)	0.49	0.035	0.034		2.4	0.17	0.17	0.698	4/7/22 22:25	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	4/7/22 22:25	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	4/7/22 22:25	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 22:25	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	4/7/22 22:25	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 22:25	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	4/7/22 22:25	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	4/7/22 22:25	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	4/7/22 22:25	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	4/7/22 22:25	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	4/7/22 22:25	BRF
Ethanol	74	8.0	3.5		140	15	6.6	4	4/8/22 19:01	BRF
Ethyl Acetate	1.3	0.35	0.18		4.8	1.3	0.64	0.698	4/7/22 22:25	BRF
Ethylbenzene	2.9	0.035	0.020		13	0.15	0.088	0.698	4/7/22 22:25	BRF
4-Ethyltoluene	1.1	0.035	0.021		5.2	0.17	0.11	0.698	4/7/22 22:25	BRF
Heptane	7.0	0.035	0.022		29	0.14	0.091	0.698	4/7/22 22:25	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	4/7/22 22:25	BRF
Hexane	13	1.4	0.18		46	4.9	0.64	0.698	4/7/22 22:25	BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.698	4/7/22 22:25	BRF
Isopropanol	1.7	1.4	0.24		4.2	3.4	0.59	0.698	4/7/22 22:25	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	4/7/22 22:25	BRF
Methylene Chloride	0.68	0.35	0.16		2.3	1.2	0.56	0.698	4/7/22 22:25	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	4/7/22 22:25	BRF
Naphthalene	0.45	0.035	0.022		2.3	0.18	0.12	0.698	4/7/22 22:25	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	4/7/22 22:25	BRF
Styrene	ND	0.035	0.018		ND	0.15	0.078	0.698	4/7/22 22:25	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	4/7/22 22:25	BRF

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 5 **-IA-1-03302022**
Sample ID: 22D0004-15
Sample Matrix: Indoor air
Sampled: 3/30/2022 15:26

Sample Description/Location:
Sub Description/Location:
Canister ID: 1839
Canister Size: 6 liter
Flow Controller ID: 3086
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -28.5
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -7.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	7.1	0.035	0.027		48	0.24	0.18	0.698	4/7/22 22:25	BRF
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.698	4/7/22 22:25	BRF
Toluene	20	0.035	0.020		75	0.13	0.075	0.698	4/7/22 22:25	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND	0.26	0.18	0.698	4/7/22 22:25	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	4/7/22 22:25	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	4/7/22 22:25	BRF
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.698	4/7/22 22:25	BRF
Trichlorofluoromethane (Freon 11)	0.35	0.14	0.041		2.0	0.78	0.23	0.698	4/7/22 22:25	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.083	0.14	0.039	J	0.64	1.1	0.30	0.698	4/7/22 22:25	BRF
1,2,4-Trimethylbenzene	3.7	0.035	0.015		18	0.17	0.076	0.698	4/7/22 22:25	BRF
1,3,5-Trimethylbenzene	0.94	0.035	0.018		4.6	0.17	0.091	0.698	4/7/22 22:25	BRF
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.698	4/7/22 22:25	BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	4/7/22 22:25	BRF
m&p-Xylene	9.9	0.070	0.039		43	0.30	0.17	0.698	4/7/22 22:25	BRF
o-Xylene	3.8	0.035	0.018		17	0.15	0.078	0.698	4/7/22 22:25	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	105	70-130	4/7/22 22:25
4-Bromofluorobenzene (1)	102	70-130	4/8/22 19:01

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Sample Extraction Data

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
22D0004-01 [Structure 2-OA-1-03302022]	B305343	1.5	1	N/A	1000	200	430	04/07/22
22D0004-02 [Structure 2-IA-1-03302022]	B305343	1.5	1	N/A	1000	200	430	04/07/22
22D0004-04 [Structure 3-OA-1-03302022]	B305343	1.5	1	N/A	1000	200	430	04/07/22
22D0004-05 [Structure 3-IA-1-03302022]	B305343	1.5	1	N/A	1000	200	430	04/07/22
22D0004-06 [Structure 3-IA-DUP-03302022]	B305343	1.5	1	N/A	1000	200	430	04/07/22
22D0004-07 [Structure 3-IA-2-03302022]	B305343	1.5	1	N/A	1000	200	430	04/07/22
22D0004-09 [Structure 4-IA-1-03302022]	B305343	1.5	1	N/A	1000	200	430	04/07/22
22D0004-10 [Structure 4-OA-1-03302022]	B305343	1.5	1	N/A	1000	200	430	04/07/22
22D0004-11 [Structure 4-IA-2-03302022]	B305343	1.5	1	N/A	1000	200	430	04/07/22
22D0004-12 [Structure 4-IA-3-03302022]	B305343	1.5	1	N/A	1000	200	430	04/07/22
22D0004-13 [Structure 4-IA-4-03302022]	B305343	1.5	1	N/A	1000	200	430	04/07/22
22D0004-15 [Structure 5-IA-1-03302022]	B305343	1.5	1	N/A	1000	200	430	04/07/22

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
22D0004-02RE1 [Structure 2-IA-1-03302022]	B305445	1.5	1	N/A	1000	200	10	04/08/22
22D0004-05RE1 [Structure 3-IA-1-03302022]	B305445	1.5	1	N/A	1000	200	75	04/08/22
22D0004-06RE1 [Structure 3-IA-DUP-03302022]	B305445	1.5	1	N/A	1000	200	75	04/08/22
22D0004-09RE1 [Structure 4-IA-1-03302022]	B305445	1.5	1	N/A	1000	200	75	04/08/22
22D0004-11RE1 [Structure 4-IA-2-03302022]	B305445	1.5	1	N/A	1000	200	75	04/08/22
22D0004-15RE1 [Structure 5-IA-1-03302022]	B305445	1.5	1	N/A	1000	200	75	04/08/22

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
22D0004-03 [Structure 2-SS-1-03302022]	B305574	2	1	N/A	1000	400	200	04/11/22
22D0004-14 [Structure 5-SS-1-03302022]	B305574	2	1	N/A	1000	400	150	04/11/22

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B305343 - TO-15 Prep											
Blank (B305343-BLK1)					Prepared & Analyzed: 04/07/22						
Acetone	ND	0.80									
Benzene	ND	0.020									
Benzyl chloride	ND	0.040									
Bromodichloromethane	ND	0.020									
Bromoform	ND	0.020									
Bromomethane	ND	0.020									
1,3-Butadiene	ND	0.020									
2-Butanone (MEK)	ND	0.80									
Carbon Disulfide	ND	0.20									
Carbon Tetrachloride	ND	0.020									
Chlorobenzene	ND	0.020									
Chloroethane	ND	0.020									
Chloroform	ND	0.020									
Chloromethane	ND	0.040									
Cyclohexane	ND	0.020									
Dibromochloromethane	ND	0.020									
1,2-Dibromoethane (EDB)	ND	0.020									
1,2-Dichlorobenzene	ND	0.020									
1,3-Dichlorobenzene	ND	0.020									
1,4-Dichlorobenzene	ND	0.020									
Dichlorodifluoromethane (Freon 12)	ND	0.020									
1,1-Dichloroethane	ND	0.020									
1,2-Dichloroethane	ND	0.020									
1,1-Dichloroethylene	ND	0.020									
cis-1,2-Dichloroethylene	ND	0.020									
trans-1,2-Dichloroethylene	ND	0.020									
1,2-Dichloropropane	ND	0.020									
cis-1,3-Dichloropropene	ND	0.020									
trans-1,3-Dichloropropene	ND	0.020									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.020									
1,4-Dioxane	ND	0.20									
Ethanol	ND	0.80									
Ethyl Acetate	ND	0.20									
Ethylbenzene	ND	0.020									
4-Ethyltoluene	ND	0.020									
Heptane	ND	0.020									
Hexachlorobutadiene	ND	0.020									
Hexane	ND	0.80									
2-Hexanone (MBK)	ND	0.020									
Isopropanol	ND	0.80									
Methyl tert-Butyl Ether (MTBE)	ND	0.020									
Methylene Chloride	ND	0.20									
4-Methyl-2-pentanone (MIBK)	ND	0.020									
Naphthalene	ND	0.020									
Propene	ND	0.80									
Styrene	ND	0.020									

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B305343 - TO-15 Prep											
Blank (B305343-BLK1)					Prepared & Analyzed: 04/07/22						
1,1,2,2-Tetrachloroethane	ND	0.020									
Tetrachloroethylene	ND	0.020									
Tetrahydrofuran	ND	0.20									
Toluene	ND	0.020									
1,2,4-Trichlorobenzene	ND	0.020									
1,1,1-Trichloroethane	ND	0.020									
1,1,2-Trichloroethane	ND	0.020									
Trichloroethylene	ND	0.020									
Trichlorofluoromethane (Freon 11)	ND	0.080									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.080									
1,2,4-Trimethylbenzene	ND	0.020									
1,3,5-Trimethylbenzene	ND	0.020									
Vinyl Acetate	ND	0.40									
Vinyl Chloride	ND	0.020									
m&p-Xylene	ND	0.040									
o-Xylene	ND	0.020									
Surrogate: 4-Bromofluorobenzene (1)	*7.81*				*8.00*		*97.6*	*70-130*			
LCS (B305343-BS1)					Prepared & Analyzed: 04/07/22						
Acetone	4.50				5.00		90.1	70-130			
Benzene	4.55				5.00		91.1	70-130			
Benzyl chloride	5.60				5.00		112	70-130			V-36
Bromodichloromethane	4.37				5.00		87.5	70-130			
Bromoform	4.90				5.00		98.0	70-130			
Bromomethane	5.15				5.00		103	70-130			
1,3-Butadiene	4.96				5.00		99.1	70-130			
2-Butanone (MEK)	4.68				5.00		93.6	70-130			
Carbon Disulfide	4.95				5.00		99.0	70-130			
Carbon Tetrachloride	4.60				5.00		91.9	70-130			
Chlorobenzene	4.73				5.00		94.6	70-130			
Chloroethane	5.11				5.00		102	70-130			
Chloroform	5.08				5.00		102	70-130			
Chloromethane	4.66				5.00		93.3	70-130			
Cyclohexane	4.84				5.00		96.8	70-130			
Dibromochloromethane	4.79				5.00		95.9	70-130			
1,2-Dibromoethane (EDB)	4.78				5.00		95.7	70-130			
1,2-Dichlorobenzene	5.10				5.00		102	70-130			
1,3-Dichlorobenzene	5.47				5.00		109	70-130			
1,4-Dichlorobenzene	5.13				5.00		103	70-130			
Dichlorodifluoromethane (Freon 12)	4.90				5.00		98.0	70-130			
1,1-Dichloroethane	5.15				5.00		103	70-130			
1,2-Dichloroethane	4.89				5.00		97.8	70-130			
1,1-Dichloroethylene	4.95				5.00		99.0	70-130			
cis-1,2-Dichloroethylene	4.93				5.00		98.6	70-130			
trans-1,2-Dichloroethylene	5.06				5.00		101	70-130			
1,2-Dichloropropane	4.38				5.00		87.6	70-130			

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B305343 - TO-15 Prep											
LCS (B305343-BS1)					Prepared & Analyzed: 04/07/22						
cis-1,3-Dichloropropene	4.50				5.00		90.1	70-130			
trans-1,3-Dichloropropene	4.60				5.00		92.0	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	4.72				5.00		94.3	70-130			
1,4-Dioxane	5.26				5.00		105	70-130			
Ethanol	4.69				5.00		93.8	70-130			
Ethyl Acetate	4.93				5.00		98.6	70-130			
Ethylbenzene	4.74				5.00		94.8	70-130			
4-Ethyltoluene	5.08				5.00		102	70-130			
Heptane	4.62				5.00		92.3	70-130			
Hexachlorobutadiene	4.70				5.00		94.1	70-130			
Hexane	4.79				5.00		95.8	70-130			
2-Hexanone (MBK)	5.21				5.00		104	70-130			
Isopropanol	4.23				5.00		84.5	70-130			
Methyl tert-Butyl Ether (MTBE)	5.04				5.00		101	70-130			
Methylene Chloride	4.51				5.00		90.3	70-130			
4-Methyl-2-pentanone (MIBK)	4.78				5.00		95.5	70-130			
Naphthalene	4.99				5.00		99.8	70-130			
Propene	4.62				5.00		92.5	70-130			
Styrene	5.15				5.00		103	70-130			
1,1,2,2-Tetrachloroethane	4.60				5.00		92.0	70-130			
Tetrachloroethylene	4.71				5.00		94.3	70-130			
Tetrahydrofuran	4.86				5.00		97.3	70-130			
Toluene	4.68				5.00		93.6	70-130			
1,2,4-Trichlorobenzene	5.67				5.00		113	70-130			V-36
1,1,1-Trichloroethane	4.54				5.00		90.8	70-130			
1,1,2-Trichloroethane	4.78				5.00		95.7	70-130			
Trichloroethylene	4.60				5.00		92.0	70-130			
Trichlorofluoromethane (Freon 11)	5.07				5.00		101	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.35				5.00		107	70-130			
1,2,4-Trimethylbenzene	5.04				5.00		101	70-130			
1,3,5-Trimethylbenzene	5.27				5.00		105	70-130			
Vinyl Acetate	4.04				5.00		80.9	70-130			
Vinyl Chloride	5.03				5.00		101	70-130			
m&p-Xylene	9.98				10.0		99.8	70-130			
o-Xylene	4.96				5.00		99.2	70-130			
Surrogate: 4-Bromofluorobenzene (1)	*8.48*				*8.00*		*106*	*70-130*			

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Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B305343 - TO-15 Prep											
Duplicate (B305343-DUP1)			**Source: 22D0004-02**		Prepared & Analyzed: 04/07/22						
Acetone	11	1.4	27	3.3		12			10.7	25	
Benzene	0.67	0.035	2.1	0.11		0.75			11.1	25	
Benzyl chloride	ND	0.070	ND	0.36		ND				25	
Bromodichloromethane	ND	0.035	ND	0.23		ND				25	
Bromoform	ND	0.035	ND	0.36		ND				25	
Bromomethane	ND	0.035	ND	0.14		ND				25	
1,3-Butadiene	0.54	0.035	1.2	0.077		0.59			9.76	25	
2-Butanone (MEK)	0.91	1.4	2.7	4.1		0.97			6.08	25	J
Carbon Disulfide	ND	0.35	ND	1.1		ND				25	
Carbon Tetrachloride	0.073	0.035	0.46	0.22		0.066			9.05	25	
Chlorobenzene	ND	0.035	ND	0.16		ND				25	
Chloroethane	ND	0.035	ND	0.092		ND				25	
Chloroform	0.075	0.035	0.36	0.17		0.079			5.45	25	
Chloromethane	1.0	0.070	2.2	0.14		1.1			4.43	25	
Cyclohexane	0.38	0.035	1.3	0.12		0.41			9.00	25	
Dibromochloromethane	ND	0.035	ND	0.30		ND				25	
1,2-Dibromoethane (EDB)	ND	0.035	ND	0.27		ND				25	
1,2-Dichlorobenzene	ND	0.035	ND	0.21		ND				25	
1,3-Dichlorobenzene	ND	0.035	ND	0.21		ND				25	
1,4-Dichlorobenzene	ND	0.035	ND	0.21		ND				25	
Dichlorodifluoromethane (Freon 12)	0.48	0.035	2.4	0.17		0.47			2.35	25	
1,1-Dichloroethane	ND	0.035	ND	0.14		ND				25	
1,2-Dichloroethane	ND	0.035	ND	0.14		ND				25	
1,1-Dichloroethylene	ND	0.035	ND	0.14		ND				25	
cis-1,2-Dichloroethylene	ND	0.035	ND	0.14		ND				25	
trans-1,2-Dichloroethylene	ND	0.035	ND	0.14		ND				25	
1,2-Dichloropropane	ND	0.035	ND	0.16		ND				25	
cis-1,3-Dichloropropene	ND	0.035	ND	0.16		ND				25	
trans-1,3-Dichloropropene	ND	0.035	ND	0.16		ND				25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	ND	0.24		ND				25	
1,4-Dioxane	ND	0.35	ND	1.3		ND				25	
Ethanol	710	1.4	1300	2.6		780			9.14	25	E
Ethyl Acetate	1.4	0.35	5.1	1.3		1.5			7.47	25	
Ethylbenzene	0.45	0.035	2.0	0.15		0.48			7.19	25	
4-Ethyltoluene	0.074	0.035	0.36	0.17		0.10			32.4	25	R-04
Heptane	0.47	0.035	1.9	0.14		0.54			12.5	25	
Hexachlorobutadiene	ND	0.035	ND	0.37		ND				25	
Hexane	1.5	1.4	5.1	4.9		1.5			5.56	25	
2-Hexanone (MBK)	ND	0.035	ND	0.14		ND				25	
Isopropanol	3.8	1.4	9.4	3.4		4.2			9.78	25	
Methyl tert-Butyl Ether (MTBE)	ND	0.035	ND	0.13		ND				25	
Methylene Chloride	0.45	0.35	1.6	1.2		0.42			8.97	25	
4-Methyl-2-pentanone (MIBK)	ND	0.035	ND	0.14		ND				25	
Naphthalene	1.1	0.035	6.0	0.18		1.2			6.65	25	
Propene	ND	1.4	ND	2.4		ND				25	
Styrene	0.089	0.035	0.38	0.15		0.093			3.83	25	

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Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B305343 - TO-15 Prep											
Duplicate (B305343-DUP1)			**Source: 22D0004-02**		Prepared & Analyzed: 04/07/22						
1,1,2,2-Tetrachloroethane	ND	0.035	ND	0.24		ND				25	
Tetrachloroethylene	0.054	0.035	0.36	0.24		0.052			2.63	25	
Tetrahydrofuran	ND	0.35	ND	1.0		ND				25	
Toluene	2.4	0.035	9.2	0.13		2.6			7.83	25	
1,2,4-Trichlorobenzene	ND	0.035	ND	0.26		ND				25	
1,1,1-Trichloroethane	ND	0.035	ND	0.19		ND				25	
1,1,2-Trichloroethane	ND	0.035	ND	0.19		ND				25	
Trichloroethylene	ND	0.035	ND	0.19		ND				25	
Trichlorofluoromethane (Freon 11)	0.72	0.14	4.0	0.78		0.77			6.88	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.080	0.14	0.61	1.1		0.084			5.08	25	J
1,2,4-Trimethylbenzene	0.28	0.035	1.4	0.17		0.31			9.95	25	
1,3,5-Trimethylbenzene	0.082	0.035	0.40	0.17		0.089			8.20	25	
Vinyl Acetate	ND	0.70	ND	2.5		ND				25	
Vinyl Chloride	ND	0.035	ND	0.089		ND				25	
m&p-Xylene	1.9	0.070	8.1	0.30		2.0			6.84	25	
o-Xylene	0.82	0.035	3.6	0.15		0.90			8.90	25	
Surrogate: 4-Bromofluorobenzene (1)	*8.17*				*8.00*		*102*	*70-130*			
Batch B305445 - TO-15 Prep											
Blank (B305445-BLK1)					Prepared & Analyzed: 04/08/22						
Acetone	ND	0.80									
Ethanol	ND	0.80									
Surrogate: 4-Bromofluorobenzene (1)	*7.93*				*8.00*		*99.2*	*70-130*			
LCS (B305445-BS1)					Prepared & Analyzed: 04/08/22						
Acetone	4.51				5.00		90.2	70-130			
Ethanol	4.58				5.00		91.5	70-130			
Surrogate: 4-Bromofluorobenzene (1)	*8.58*				*8.00*		*107*	*70-130*			

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B305574 - TO-15 Prep											
Blank (B305574-BLK1)					Prepared & Analyzed: 04/11/22						
Acetone	ND	1.4									
Benzene	ND	0.035									
Benzyl chloride	ND	0.035									
Bromodichloromethane	ND	0.035									
Bromoform	ND	0.035									
Bromomethane	ND	0.035									
1,3-Butadiene	ND	0.035									
2-Butanone (MEK)	ND	1.4									
Carbon Disulfide	ND	0.35									
Carbon Tetrachloride	ND	0.035									
Chlorobenzene	ND	0.035									
Chloroethane	ND	0.035									
Chloroform	ND	0.035									
Chloromethane	ND	0.070									
Cyclohexane	ND	0.035									
Dibromochloromethane	ND	0.035									
1,2-Dibromoethane (EDB)	ND	0.035									
1,2-Dichlorobenzene	ND	0.035									
1,3-Dichlorobenzene	ND	0.035									
1,4-Dichlorobenzene	ND	0.035									
Dichlorodifluoromethane (Freon 12)	ND	0.035									
1,1-Dichloroethane	ND	0.035									
1,2-Dichloroethane	ND	0.035									
1,1-Dichloroethylene	ND	0.035									
cis-1,2-Dichloroethylene	ND	0.035									
trans-1,2-Dichloroethylene	ND	0.035									
1,2-Dichloropropane	ND	0.035									
cis-1,3-Dichloropropene	ND	0.035									
trans-1,3-Dichloropropene	ND	0.035									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035									
1,4-Dioxane	ND	0.35									
Ethanol	ND	1.4									
Ethyl Acetate	ND	0.35									
Ethylbenzene	ND	0.035									
4-Ethyltoluene	ND	0.035									
Heptane	ND	0.035									
Hexachlorobutadiene	ND	0.035									
Hexane	ND	1.4									
2-Hexanone (MBK)	ND	0.035									
Isopropanol	ND	1.4									
Methyl tert-Butyl Ether (MTBE)	ND	0.035									
Methylene Chloride	ND	0.35									
4-Methyl-2-pentanone (MIBK)	ND	0.035									
Naphthalene	ND	0.035									
Propene	ND	1.4									
Styrene	ND	0.035									

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B305574 - TO-15 Prep											
Blank (B305574-BLK1)					Prepared & Analyzed: 04/11/22						
1,1,2,2-Tetrachloroethane	ND	0.035									
Tetrachloroethylene	ND	0.035									
Tetrahydrofuran	ND	0.35									
Toluene	ND	0.035									
1,2,4-Trichlorobenzene	ND	0.035									
1,1,1-Trichloroethane	ND	0.035									
1,1,2-Trichloroethane	ND	0.035									
Trichloroethylene	ND	0.035									
Trichlorofluoromethane (Freon 11)	ND	0.14									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14									
1,2,4-Trimethylbenzene	ND	0.035									
1,3,5-Trimethylbenzene	ND	0.035									
Vinyl Acetate	ND	0.70									
Vinyl Chloride	ND	0.035									
m&p-Xylene	ND	0.070									
o-Xylene	ND	0.035									
Surrogate: 4-Bromofluorobenzene (1)	*7.61*				*8.00*		*95.1*	*70-130*			
LCS (B305574-BS1)					Prepared & Analyzed: 04/11/22						
Acetone	5.93				5.00		119	70-130			
Benzene	4.48				5.00		89.6	70-130			
Benzyl chloride	4.77				5.00		95.4	70-130			
Bromodichloromethane	4.38				5.00		87.5	70-130			
Bromoform	5.12				5.00		102	70-130			
Bromomethane	5.73				5.00		115	70-130			
1,3-Butadiene	5.10				5.00		102	70-130			
2-Butanone (MEK)	4.68				5.00		93.6	70-130			
Carbon Disulfide	5.78				5.00		116	70-130			
Carbon Tetrachloride	5.02				5.00		100	70-130			
Chlorobenzene	4.84				5.00		96.7	70-130			
Chloroethane	5.42				5.00		108	70-130			
Chloroform	5.39				5.00		108	70-130			
Chloromethane	5.26				5.00		105	70-130			
Cyclohexane	4.12				5.00		82.5	70-130			
Dibromochloromethane	5.05				5.00		101	70-130			
1,2-Dibromoethane (EDB)	4.71				5.00		94.2	70-130			
1,2-Dichlorobenzene	4.40				5.00		87.9	70-130			
1,3-Dichlorobenzene	4.84				5.00		96.8	70-130			
1,4-Dichlorobenzene	4.61				5.00		92.3	70-130			
Dichlorodifluoromethane (Freon 12)	5.67				5.00		113	70-130			
1,1-Dichloroethane	5.01				5.00		100	70-130			
1,2-Dichloroethane	4.97				5.00		99.4	70-130			
1,1-Dichloroethylene	5.84				5.00		117	70-130			
cis-1,2-Dichloroethylene	4.56				5.00		91.2	70-130			
trans-1,2-Dichloroethylene	4.73				5.00		94.6	70-130			
1,2-Dichloropropane	3.94				5.00		78.9	70-130			

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B305574 - TO-15 Prep											
LCS (B305574-BS1)					Prepared & Analyzed: 04/11/22						
cis-1,3-Dichloropropene	4.04				5.00		80.8	70-130			
trans-1,3-Dichloropropene	4.22				5.00		84.4	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5.44				5.00		109	70-130			
1,4-Dioxane	4.72				5.00		94.4	70-130			
Ethanol	4.69				5.00		93.8	70-130			
Ethyl Acetate	5.30				5.00		106	70-130			
Ethylbenzene	4.86				5.00		97.2	70-130			
4-Ethyltoluene	5.10				5.00		102	70-130			
Heptane	4.19				5.00		83.9	70-130			
Hexachlorobutadiene	4.06				5.00		81.3	70-130			
Hexane	4.80				5.00		96.0	70-130			
2-Hexanone (MBK)	4.23				5.00		84.5	70-130			
Isopropanol	4.48				5.00		89.6	70-130			
Methyl tert-Butyl Ether (MTBE)	5.01				5.00		100	70-130			
Methylene Chloride	4.95				5.00		99.0	70-130			
4-Methyl-2-pentanone (MIBK)	4.09				5.00		81.7	70-130			
Naphthalene	3.86				5.00		77.2	70-130			
Propene	5.09				5.00		102	70-130			
Styrene	4.98				5.00		99.6	70-130			
1,1,2,2-Tetrachloroethane	4.56				5.00		91.3	70-130			
Tetrachloroethylene	4.72				5.00		94.4	70-130			
Tetrahydrofuran	5.05				5.00		101	70-130			
Toluene	4.77				5.00		95.4	70-130			
1,2,4-Trichlorobenzene	3.70				5.00		74.1	70-130			
1,1,1-Trichloroethane	4.54				5.00		90.7	70-130			
1,1,2-Trichloroethane	4.93				5.00		98.6	70-130			
Trichloroethylene	4.66				5.00		93.3	70-130			
Trichlorofluoromethane (Freon 11)	6.16				5.00		123	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.94				5.00		119	70-130			
1,2,4-Trimethylbenzene	4.86				5.00		97.2	70-130			
1,3,5-Trimethylbenzene	5.12				5.00		102	70-130			
Vinyl Acetate	3.94				5.00		78.9	70-130			
Vinyl Chloride	5.17				5.00		103	70-130			
m&p-Xylene	10.2				10.0		102	70-130			
o-Xylene	4.94				5.00		98.9	70-130			
Surrogate: 4-Bromofluorobenzene (1)	*7.50*				*8.00*		*93.8*	*70-130*			

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Note: Blank Subtraction is not performed unless otherwise noted

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
E	Reported result is estimated. Value reported over verified calibration range.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
R-04	Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).
RL-11	Elevated reporting limit due to high concentration of target compounds.
V-36	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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ANALYST

TPH	Thomas P. Hnitecki
RJM	Raymond J. McCarthy
STATION	PDF Management Station
LR	Lionel Rios
BRF	Brittany R. Fisk

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (S069130-ICV1)			Lab File ID: G22A070016.D			Analyzed: 03/12/22 00:46			
Bromochloromethane (1)	1422759	8.497	1375823	8.497	103	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3681016	10.271	3486350	10.271	106	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	3376358	14.636	3232194	14.636	104	60 - 140	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (S069304-ICV1)			Lab File ID: K22A075019.D			Analyzed: 03/16/22 23:55			
Bromochloromethane (1)	104138	2.987	102745	2.987	101	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	315817	3.584	303801	3.579	104	60 - 140	0.0050	+/-0.50	
Chlorobenzene-d5 (1)	233658	5.159	223280	5.159	105	60 - 140	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S070138-CCV1)			Lab File ID: K22A097004.D			Analyzed: 04/07/22 10:13			
Bromochloromethane (1)	89286	2.992	102745	2.987	87	60 - 140	0.0050	+/-0.50	
1,4-Difluorobenzene (1)	288588	3.584	303801	3.579	95	60 - 140	0.0050	+/-0.50	
Chlorobenzene-d5 (1)	210793	5.159	223280	5.159	94	60 - 140	0.0000	+/-0.50	
LCS (B305343-BS1)			Lab File ID: K22A097005.D			Analyzed: 04/07/22 10:44			
Bromochloromethane (1)	87580	2.992	89286	2.992	98	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	285987	3.584	288588	3.584	99	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	210184	5.159	210793	5.159	100	60 - 140	0.0000	+/-0.50	
Blank (B305343-BLK1)			Lab File ID: K22A097008.D			Analyzed: 04/07/22 12:28			
Bromochloromethane (1)	88947	2.996	89286	2.992	100	60 - 140	0.0040	+/-0.50	
1,4-Difluorobenzene (1)	269248	3.584	288588	3.584	93	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	207585	5.159	210793	5.159	98	60 - 140	0.0000	+/-0.50	
Structure 2 **-OA-1-03302022 (22D0004-01)**			Lab File ID: K22A097011.D			Analyzed: 04/07/22 14:50			
Bromochloromethane (1)	87869	2.996	89286	2.992	98	60 - 140	0.0040	+/-0.50	
1,4-Difluorobenzene (1)	269842	3.588	288588	3.584	94	60 - 140	0.0040	+/-0.50	
Chlorobenzene-d5 (1)	203660	5.164	210793	5.159	97	60 - 140	0.0050	+/-0.50	
Structure 2 **-IA-1-03302022 (22D0004-02)**			Lab File ID: K22A097013.D			Analyzed: 04/07/22 15:56			
Bromochloromethane (1)	86085	2.996	89286	2.992	96	60 - 140	0.0040	+/-0.50	
1,4-Difluorobenzene (1)	269593	3.588	288588	3.584	93	60 - 140	0.0040	+/-0.50	
Chlorobenzene-d5 (1)	208658	5.159	210793	5.159	99	60 - 140	0.0000	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Duplicate (B305343-DUP1)			Lab File ID: K22A097014.D			Analyzed: 04/07/22 16:31			
Bromochloromethane (1)	87321	2.996	89286	2.992	98	60 - 140	0.0040	+/-0.50	
1,4-Difluorobenzene (1)	278285	3.588	288588	3.584	96	60 - 140	0.0040	+/-0.50	
Chlorobenzene-d5 (1)	207662	5.163	210793	5.159	99	60 - 140	0.0040	+/-0.50	
Structure 3 **-OA-1-03302022 (22D0004-04)**			Lab File ID: K22A097015.D			Analyzed: 04/07/22 17:06			
Bromochloromethane (1)	85360	2.996	89286	2.992	96	60 - 140	0.0040	+/-0.50	
1,4-Difluorobenzene (1)	257074	3.584	288588	3.584	89	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	198203	5.159	210793	5.159	94	60 - 140	0.0000	+/-0.50	
Structure 3 **-IA-1-03302022 (22D0004-05)**			Lab File ID: K22A097016.D			Analyzed: 04/07/22 17:43			
Bromochloromethane (1)	84948	2.996	89286	2.992	95	60 - 140	0.0040	+/-0.50	
1,4-Difluorobenzene (1)	256990	3.588	288588	3.584	89	60 - 140	0.0040	+/-0.50	
Chlorobenzene-d5 (1)	196226	5.159	210793	5.159	93	60 - 140	0.0000	+/-0.50	
Structure 3 **-IA-DUP-03302022 (22D0004-06)**			Lab File ID: K22A097017.D			Analyzed: 04/07/22 18:18			
Bromochloromethane (1)	85367	2.996	89286	2.992	96	60 - 140	0.0040	+/-0.50	
1,4-Difluorobenzene (1)	262342	3.588	288588	3.584	91	60 - 140	0.0040	+/-0.50	
Chlorobenzene-d5 (1)	198269	5.164	210793	5.159	94	60 - 140	0.0050	+/-0.50	
Structure 3 **-IA-2-03302022 (22D0004-07)**			Lab File ID: K22A097018.D			Analyzed: 04/07/22 18:54			
Bromochloromethane (1)	84760	2.996	89286	2.992	95	60 - 140	0.0040	+/-0.50	
1,4-Difluorobenzene (1)	260923	3.588	288588	3.584	90	60 - 140	0.0040	+/-0.50	
Chlorobenzene-d5 (1)	197946	5.164	210793	5.159	94	60 - 140	0.0050	+/-0.50	
Structure 4 **-IA-1-03302022 (22D0004-09)**			Lab File ID: K22A097019.D			Analyzed: 04/07/22 19:29			
Bromochloromethane (1)	85776	2.996	89286	2.992	96	60 - 140	0.0040	+/-0.50	
1,4-Difluorobenzene (1)	259989	3.588	288588	3.584	90	60 - 140	0.0040	+/-0.50	
Chlorobenzene-d5 (1)	202459	5.163	210793	5.159	96	60 - 140	0.0040	+/-0.50	
Structure 4 **-OA-1-03302022 (22D0004-10)**			Lab File ID: K22A097020.D			Analyzed: 04/07/22 20:05			
Bromochloromethane (1)	85570	2.992	89286	2.992	96	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	256592	3.584	288588	3.584	89	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	196054	5.163	210793	5.159	93	60 - 140	0.0040	+/-0.50	
Structure 4 **-IA-2-03302022 (22D0004-11)**			Lab File ID: K22A097021.D			Analyzed: 04/07/22 20:40			
Bromochloromethane (1)	83875	2.996	89286	2.992	94	60 - 140	0.0040	+/-0.50	
1,4-Difluorobenzene (1)	252901	3.588	288588	3.584	88	60 - 140	0.0040	+/-0.50	
Chlorobenzene-d5 (1)	197621	5.163	210793	5.159	94	60 - 140	0.0040	+/-0.50	
Structure 4 **-IA-3-03302022 (22D0004-12)**			Lab File ID: K22A097022.D			Analyzed: 04/07/22 21:15			
Bromochloromethane (1)	84548	2.996	89286	2.992	95	60 - 140	0.0040	+/-0.50	
1,4-Difluorobenzene (1)	258449	3.588	288588	3.584	90	60 - 140	0.0040	+/-0.50	
Chlorobenzene-d5 (1)	197572	5.164	210793	5.159	94	60 - 140	0.0050	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Structure 4 **-IA-4-03302022 (22D0004-13)**			Lab File ID: K22A097023.D			Analyzed: 04/07/22 21:50			
Bromochloromethane (1)	83412	2.996	89286	2.992	93	60 - 140	0.0040	+/-0.50	
1,4-Difluorobenzene (1)	258706	3.588	288588	3.584	90	60 - 140	0.0040	+/-0.50	
Chlorobenzene-d5 (1)	197773	5.159	210793	5.159	94	60 - 140	0.0000	+/-0.50	
Structure 5 **-IA-1-03302022 (22D0004-15)**			Lab File ID: K22A097024.D			Analyzed: 04/07/22 22:25			
Bromochloromethane (1)	84457	2.996	89286	2.992	95	60 - 140	0.0040	+/-0.50	
1,4-Difluorobenzene (1)	271221	3.584	288588	3.584	94	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	202031	5.159	210793	5.159	96	60 - 140	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S070204-CCV1)			Lab File ID: K22A098004.D			Analyzed: 04/08/22 08:37			
Bromochloromethane (1)	84246	2.992	102745	2.987	82	60 - 140	0.0050	+/-0.50	
1,4-Difluorobenzene (1)	275484	3.584	303801	3.579	91	60 - 140	0.0050	+/-0.50	
Chlorobenzene-d5 (1)	204768	5.159	223280	5.159	92	60 - 140	0.0000	+/-0.50	
LCS (B305445-BS1)			Lab File ID: K22A098005.D			Analyzed: 04/08/22 09:07			
Bromochloromethane (1)	86494	2.992	84246	2.992	103	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	276627	3.584	275484	3.584	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	205325	5.163	204768	5.159	100	60 - 140	0.0040	+/-0.50	
Blank (B305445-BLK1)			Lab File ID: K22A098008.D			Analyzed: 04/08/22 10:51			
Bromochloromethane (1)	82793	2.996	84246	2.992	98	60 - 140	0.0040	+/-0.50	
1,4-Difluorobenzene (1)	254751	3.584	275484	3.584	92	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	191075	5.159	204768	5.159	93	60 - 140	0.0000	+/-0.50	
Structure 2 **-IA-1-03302022 (22D0004-02RE1)**			Lab File ID: K22A098019.D			Analyzed: 04/08/22 16:09			
Bromochloromethane (1)	80825	2.996	84246	2.992	96	60 - 140	0.0040	+/-0.50	
1,4-Difluorobenzene (1)	248159	3.588	275484	3.584	90	60 - 140	0.0040	+/-0.50	
Chlorobenzene-d5 (1)	190655	5.164	204768	5.159	93	60 - 140	0.0050	+/-0.50	
Structure 3 **-IA-1-03302022 (22D0004-05RE1)**			Lab File ID: K22A098021.D			Analyzed: 04/08/22 17:07			
Bromochloromethane (1)	78814	2.996	84246	2.992	94	60 - 140	0.0040	+/-0.50	
1,4-Difluorobenzene (1)	245822	3.588	275484	3.584	89	60 - 140	0.0040	+/-0.50	
Chlorobenzene-d5 (1)	189232	5.164	204768	5.159	92	60 - 140	0.0050	+/-0.50	
Structure 3 **-IA-DUP-03302022 (22D0004-06RE1)**			Lab File ID: K22A098022.D			Analyzed: 04/08/22 17:35			
Bromochloromethane (1)	79006	2.996	84246	2.992	94	60 - 140	0.0040	+/-0.50	
1,4-Difluorobenzene (1)	244835	3.588	275484	3.584	89	60 - 140	0.0040	+/-0.50	
Chlorobenzene-d5 (1)	189855	5.164	204768	5.159	93	60 - 140	0.0050	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Structure 4 **-IA-1-03302022 (22D0004-09RE1)**			Lab File ID: K22A098023.D			Analyzed: 04/08/22 18:04			
Bromochloromethane (1)	78294	2.996	84246	2.992	93	60 - 140	0.0040	+/-0.50	
1,4-Difluorobenzene (1)	240100	3.588	275484	3.584	87	60 - 140	0.0040	+/-0.50	
Chlorobenzene-d5 (1)	183605	5.164	204768	5.159	90	60 - 140	0.0050	+/-0.50	
Structure 4 **-IA-2-03302022 (22D0004-11RE1)**			Lab File ID: K22A098024.D			Analyzed: 04/08/22 18:33			
Bromochloromethane (1)	79355	2.996	84246	2.992	94	60 - 140	0.0040	+/-0.50	
1,4-Difluorobenzene (1)	246115	3.588	275484	3.584	89	60 - 140	0.0040	+/-0.50	
Chlorobenzene-d5 (1)	188044	5.164	204768	5.159	92	60 - 140	0.0050	+/-0.50	
Structure 5 **-IA-1-03302022 (22D0004-15RE1)**			Lab File ID: K22A098025.D			Analyzed: 04/08/22 19:01			
Bromochloromethane (1)	80012	3.001	84246	2.992	95	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	253685	3.588	275484	3.584	92	60 - 140	0.0040	+/-0.50	
Chlorobenzene-d5 (1)	192519	5.163	204768	5.159	94	60 - 140	0.0040	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S070264-CCV1)			Lab File ID: G22A010104.D			Analyzed: 04/11/22 10:30			
Bromochloromethane (1)	1063725	8.485	1375823	8.497	77	60 - 140	-0.0120	+/-0.50	
1,4-Difluorobenzene (1)	3224323	10.259	3486350	10.271	92	60 - 140	-0.0120	+/-0.50	
Chlorobenzene-d5 (1)	2847055	14.63	3232194	14.636	88	60 - 140	-0.0060	+/-0.50	
LCS (B305574-BS1)			Lab File ID: G22A010105.D			Analyzed: 04/11/22 11:10			
Bromochloromethane (1)	1058412	8.485	1063725	8.485	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3217806	10.259	3224323	10.259	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2868721	14.63	2847055	14.63	101	60 - 140	0.0000	+/-0.50	
Blank (B305574-BLK1)			Lab File ID: G22A010111.D			Analyzed: 04/11/22 15:23			
Bromochloromethane (1)	1015075	8.491	1063725	8.485	95	60 - 140	0.0060	+/-0.50	
1,4-Difluorobenzene (1)	2944281	10.265	3224323	10.259	91	60 - 140	0.0060	+/-0.50	
Chlorobenzene-d5 (1)	2665344	14.636	2847055	14.63	94	60 - 140	0.0060	+/-0.50	
Structure 2 **-SS-1-03302022 (22D0004-03)**			Lab File ID: G22A010122.D			Analyzed: 04/11/22 23:00			
Bromochloromethane (1)	945952	8.485	1063725	8.485	89	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2872682	10.259	3224323	10.259	89	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2654532	14.63	2847055	14.63	93	60 - 140	0.0000	+/-0.50	
Structure 5 **-SS-1-03302022 (22D0004-14)**			Lab File ID: G22A010124.D			Analyzed: 04/12/22 00:21			
Bromochloromethane (1)	866204	8.491	1063725	8.485	81	60 - 140	0.0060	+/-0.50	
1,4-Difluorobenzene (1)	2728848	10.259	3224323	10.259	85	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2483222	14.63	2847055	14.63	87	60 - 140	0.0000	+/-0.50	

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CONTINUING CALIBRATION CHECK

EPA TO-15

S070138-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	4.61	1.000565	0.9232175		-7.7	30
Benzene	A	5.00	4.85	0.6327591	0.6144455		-2.9	30
Benzyl chloride	A	5.00	5.89	0.4421644	0.520708		17.8	30
Bromodichloromethane	A	5.00	4.72	0.4478553	0.4232248		-5.5	30
Bromoform	A	5.00	5.26	0.5300211	0.5589104		5.5	30
Bromomethane	A	5.00	5.47	0.5681906	0.6214995		9.4	30
1,3-Butadiene	A	5.00	5.34	0.4938916	0.5272226		6.7	30
2-Butanone (MEK)	A	5.00	4.56	1.142796	1.041507		-8.9	30
Carbon Disulfide	A	5.00	5.16	2.088941	2.166109		3.7	30
Carbon Tetrachloride	A	5.00	4.96	0.3578787	0.3555463		-0.7	30
Chlorobenzene	A	5.00	5.09	0.7308264	0.7432429		1.7	30
Chloroethane	A	5.00	5.31	0.3727141	0.3960666		6.3	30
Chloroform	A	5.00	5.40	1.205434	1.30131		8.0	30
Chloromethane	A	5.00	5.01	0.5840715	0.5858388		0.3	30
Cyclohexane	A	5.00	5.14	0.2470766	0.2542032		2.9	30
Dibromochloromethane	A	5.00	5.14	0.5366083	0.5520563		2.9	30
1,2-Dibromoethane (EDB)	A	5.00	5.14	0.4699119	0.4827788		2.7	30
1,2-Dichlorobenzene	A	5.00	5.60	0.5425978	0.6073826		11.9	30
1,3-Dichlorobenzene	A	5.00	5.92	0.5590468	0.6602648		18.1	30
1,4-Dichlorobenzene	A	5.00	5.83	0.4842168	0.5648005		16.6	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.25	1.436661	1.509576		5.1	30
1,1-Dichloroethane	A	5.00	5.35	0.9928728	1.062348		7.0	30
1,2-Dichloroethane	A	5.00	5.01	0.7601677	0.7622785		0.3	30
1,1-Dichloroethylene	A	5.00	5.20	1.024961	1.065556		4.0	30
cis-1,2-Dichloroethylene	A	5.00	5.27	0.8170638	0.861322		5.4	30
trans-1,2-Dichloroethylene	A	5.00	5.22	0.8261855	0.8637592		4.5	30
1,2-Dichloropropane	A	5.00	4.69	0.2522131	0.2367999		-6.1	30
cis-1,3-Dichloropropene	A	5.00	4.81	0.4036831	0.3889947		-3.6	30
trans-1,3-Dichloropropene	A	5.00	4.78	0.2817951	0.2699322		-4.2	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 1	A	5.00	5.27	1.570417	1.655104		5.4	30
1,4-Dioxane	A	5.00	5.03	0.1250488	0.1259262		0.7	30
Ethanol	A	5.00	4.82	0.2345993	0.2261676		-3.6	30
Ethyl Acetate	A	5.00	4.82	0.179697	0.1733038		-3.6	30
Ethylbenzene	A	5.00	5.16	1.166363	1.20256		3.1	30
4-Ethyltoluene	A	5.00	5.54	1.091641	1.208571		10.7	30
Heptane	A	5.00	4.99	0.2367552	0.2364838		-0.1	30
Hexachlorobutadiene	A	5.00	4.98	0.3847372	0.3830867		-0.4	30
Hexane	L	5.00	4.98	0.6113192	0.6260153		-0.3	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S070138-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	5.01	0.5293937	0.5306666		0.2	30
Isopropanol	A	5.00	4.99	1.232138	1.2311		-0.08	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	5.28	1.403234	1.482929		5.7	30
Methylene Chloride	A	5.00	4.80	0.774618	0.7431759		-4.1	30
4-Methyl-2-pentanone (MIBK)	A	5.00	4.49	0.1035297	0.0930101		-10.2	30
Naphthalene	A	5.00	4.96	0.9068141	0.8989369		-0.9	30
Propene	A	5.00	5.03	0.4753841	0.4782653		0.6	30
Styrene	A	5.00	5.62	0.619618	0.6967214		12.4	30
1,1,2,2-Tetrachloroethane	A	5.00	4.96	0.7650258	0.7584464		-0.9	30
Tetrachloroethylene	A	5.00	5.02	0.4025846	0.4045372		0.5	30
Tetrahydrofuran	A	5.00	5.05	0.6189522	0.6249222		1.0	30
Toluene	A	5.00	5.04	0.9589738	0.9656336		0.7	30
1,2,4-Trichlorobenzene	A	5.00	5.79	0.2888865	0.3346828		15.9	30
1,1,1-Trichloroethane	A	5.00	4.94	0.3999353	0.3960026		-1.0	30
1,1,2-Trichloroethane	A	5.00	5.03	0.3339886	0.3358745		0.6	30
Trichloroethylene	A	5.00	4.94	0.2665469	0.2636894		-1.1	30
Trichlorofluoromethane (Freon 11)	A	5.00	5.33	1.362621	1.453146		6.6	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	A	5.00	5.65	1.307301	1.482266		13.4	30
1,2,4-Trimethylbenzene	A	5.00	5.48	0.9102048	0.9971792		9.6	30
1,3,5-Trimethylbenzene	A	5.00	5.59	0.9320592	1.040391		11.6	30
Vinyl Acetate	A	5.00	4.16	1.471422	1.211048		-17.7	30
Vinyl Chloride	A	5.00	5.35	0.669766	0.7164035		7.0	30
m&p-Xylene	A	10.0	10.8	0.9872204	1.071831		8.6	30
o-Xylene	A	5.00	5.35	0.900727	0.9628859		6.9	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

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CONTINUING CALIBRATION CHECK

EPA TO-15

S070204-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	4.68	1.000565	0.9378249		-6.3	30
Ethanol	A	5.00	4.89	0.2345993	0.2297272		-2.1	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

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CONTINUING CALIBRATION CHECK

EPA TO-15

S070264-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	5.80	1.120239	1.299073		16.0	30
Benzene	A	5.00	4.33	0.8240293	0.7138843		-13.4	30
Benzyl chloride	A	5.00	4.76	0.9910822	0.9424846		-4.9	30
Bromodichloromethane	A	5.00	4.34	0.6501748	0.5638393		-13.3	30
Bromoform	A	5.00	4.99	0.5709694	0.5695547		-0.2	30
Bromomethane	A	5.00	5.55	0.6889852	0.7642697		10.9	30
1,3-Butadiene	A	5.00	5.10	0.5731225	0.5841841		1.9	30
2-Butanone (MEK)	A	5.00	4.44	1.404817	1.248324		-11.1	30
Carbon Disulfide	A	5.00	5.34	1.937522	2.071147		6.9	30
Carbon Tetrachloride	A	5.00	4.85	0.548375	0.5314778		-3.1	30
Chlorobenzene	A	5.00	4.77	0.8415703	0.803547		-4.5	30
Chloroethane	A	5.00	5.25	0.3820533	0.4009172		4.9	30
Chloroform	A	5.00	5.27	1.56454	1.648668		5.4	30
Chloromethane	A	5.00	5.17	0.7020787	0.7262448		3.4	30
Cyclohexane	A	5.00	3.92	0.3645755	0.2859892		-21.6	30
Dibromochloromethane	A	5.00	5.01	0.626056	0.6267889		0.1	30
1,2-Dibromoethane (EDB)	A	5.00	4.78	0.5786076	0.5534263		-4.4	30
1,2-Dichlorobenzene	A	5.00	4.35	0.6776517	0.5900885		-12.9	30
1,3-Dichlorobenzene	A	5.00	4.80	0.7306768	0.7019357		-3.9	30
1,4-Dichlorobenzene	A	5.00	4.58	0.7152322	0.6552562		-8.4	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.59	1.7426	1.94821		11.8	30
1,1-Dichloroethane	A	5.00	4.73	1.327799	1.256878		-5.3	30
1,2-Dichloroethane	A	5.00	4.73	0.9789001	0.9265041		-5.4	30
1,1-Dichloroethylene	A	5.00	4.63	1.183396	1.096416		-7.4	30
cis-1,2-Dichloroethylene	A	5.00	4.47	0.9435815	0.8434691		-10.6	30
trans-1,2-Dichloroethylene	A	5.00	4.55	0.9826295	0.8948192		-8.9	30
1,2-Dichloropropane	A	5.00	3.86	0.3292917	0.2542242		-22.8	30
cis-1,3-Dichloropropene	A	5.00	4.08	0.4764829	0.388566		-18.5	30
trans-1,3-Dichloropropene	A	5.00	4.18	0.4238495	0.3544816		-16.4	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 1	A	5.00	5.64	1.934125	2.180392		12.7	30
1,4-Dioxane	A	5.00	4.44	0.1711519	0.1521336		-11.1	30
Ethanol	A	5.00	5.30	0.2507618	0.2656371		5.9	30
Ethyl Acetate	A	5.00	4.92	0.2168372	0.2134958		-1.5	30
Ethylbenzene	A	5.00	4.80	1.26444	1.213881		-4.0	30
4-Ethyltoluene	A	5.00	4.98	1.269319	1.264163		-0.4	30
Heptane	A	5.00	4.09	0.2494179	0.2040887		-18.2	30
Hexachlorobutadiene	A	5.00	4.46	0.4838339	0.4314926		-10.8	30
Hexane	A	5.00	4.61	0.8633594	0.7805401		-7.7	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S070264-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	4.18	0.6449185	0.5390969		-16.4	30
Isopropanol	A	5.00	5.34	1.404012	1.498156		6.7	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	4.84	1.744599	1.688191		-3.2	30
Methylene Chloride	A	5.00	4.66	0.873135	0.8144406		-6.7	30
4-Methyl-2-pentanone (MIBK)	A	5.00	4.05	0.6500395	0.5259949		-19.1	30
Naphthalene	A	5.00	4.23	1.104784	0.9346067		-15.4	30
Propene	A	5.00	5.09	0.5657486	0.5755503		1.7	30
Styrene	A	5.00	4.90	0.719924	0.7055689		-2.0	30
1,1,2,2-Tetrachloroethane	A	5.00	4.50	0.8812074	0.792649		-10.0	30
Tetrachloroethylene	A	5.00	4.68	0.4708091	0.4406844		-6.4	30
Tetrahydrofuran	A	5.00	4.96	0.2863014	0.2842238		-0.7	30
Toluene	A	5.00	4.75	1.019382	0.9684562		-5.0	30
1,2,4-Trichlorobenzene	A	5.00	4.01	0.5277494	0.4235158		-19.8	30
1,1,1-Trichloroethane	A	5.00	4.58	0.5718988	0.5232568		-8.5	30
1,1,2-Trichloroethane	A	5.00	4.74	0.3805634	0.3603746		-5.3	30
Trichloroethylene	A	5.00	4.58	0.374415	0.3431334		-8.4	30
Trichlorofluoromethane (Freon 11)	A	5.00	5.94	1.714601	2.037797		18.8	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	A	5.00	5.72	1.431477	1.637489		14.4	30
1,2,4-Trimethylbenzene	A	5.00	4.85	1.043255	1.012337		-3.0	30
1,3,5-Trimethylbenzene	A	5.00	5.01	1.077363	1.078966		0.1	30
Vinyl Acetate	A	5.00	4.19	1.9525	1.634465		-16.3	30
Vinyl Chloride	A	5.00	4.94	0.8152498	0.8058925		-1.1	30
m&p-Xylene	A	10.0	10.0	0.9836524	0.9864444		0.3	30
o-Xylene	A	5.00	4.78	1.021825	0.976973		-4.4	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Acetone	AIHA,NY,ME,NH
Benzene	AIHA,FL,NJ,NY,ME,NH,VA
Benzyl chloride	AIHA,FL,NJ,NY,ME,NH,VA
Bromodichloromethane	AIHA,NJ,NY,ME,NH,VA
Bromoform	AIHA,NJ,NY,ME,NH,VA
Bromomethane	AIHA,FL,NJ,NY,ME,NH
1,3-Butadiene	AIHA,NJ,NY,ME,NH,VA
2-Butanone (MEK)	AIHA,FL,NJ,NY,ME,NH,VA
Carbon Disulfide	AIHA,NJ,NY,ME,NH,VA
Carbon Tetrachloride	AIHA,FL,NJ,NY,ME,NH,VA
Chlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Chloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Chloroform	AIHA,FL,NJ,NY,ME,NH,VA
Chloromethane	AIHA,FL,NJ,NY,ME,NH,VA
Cyclohexane	AIHA,NJ,NY,ME,NH,VA
Dibromochloromethane	AIHA,NY,ME,NH
1,2-Dibromoethane (EDB)	AIHA,NJ,NY,ME,NH
1,2-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
1,3-Dichlorobenzene	AIHA,NJ,NY,ME,NH
1,4-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	AIHA,NY,ME,NH
1,1-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,2-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,ME,NH,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,ME,NH,VA
1,2-Dichloropropane	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY,ME,NH,VA
trans-1,3-Dichloropropene	AIHA,NY,ME,NH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,NJ,NY,ME,NH,VA
1,4-Dioxane	AIHA,NJ,NY,ME,NH,VA
Ethanol	AIHA
Ethyl Acetate	AIHA
Ethylbenzene	AIHA,FL,NJ,NY,ME,NH,VA
4-Ethyltoluene	AIHA,NJ
Heptane	AIHA,NJ,NY,ME,NH,VA
Hexachlorobutadiene	AIHA,NJ,NY,ME,NH,VA
Hexane	AIHA,FL,NJ,NY,ME,NH,VA
2-Hexanone (MBK)	AIHA
Isopropanol	AIHA,NY,ME,NH
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,ME,NH,VA
Methylene Chloride	AIHA,FL,NJ,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY,ME,NH
Naphthalene	NY,ME,NH
Propene	AIHA
Styrene	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,ME,NH,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Tetrachloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Tetrahydrofuran	AIHA
Toluene	AIHA,FL,NJ,NY,ME,NH,VA
1,2,4-Trichlorobenzene	AIHA,NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Trichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	AIHA,NY,ME,NH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	AIHA,NJ,NY,ME,NH,VA
1,2,4-Trimethylbenzene	AIHA,NJ,NY,ME,NH
1,3,5-Trimethylbenzene	AIHA,NJ,NY,ME,NH
Vinyl Acetate	AIHA,FL,NJ,NY,ME,NH,VA
Vinyl Chloride	AIHA,FL,NJ,NY,ME,NH,VA
m&p-Xylene	AIHA,FL,NJ,NY,ME,NH,VA
o-Xylene	AIHA,FL,NJ,NY,ME,NH,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Publilc Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

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CHAIN OF CUSTODY RECORD (AIR)

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Company Name: AECOM
Address: 40 British American Blvd.
Phone: 518-951-2200
Project Name: Korkay
Project Location: Broadalbin NY
Project Number: 60631025
Project Manager: Walt Howard
Pace Quote Name/Number:
Invoice Recipient: Accounts Receivable
Sampled By: CJF - SRG

Requested Turnaround Time
7-Day ☐ 10-Day ☒
Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☐ EXCEL ☐
Other: * see comments
CLP Like Data Pkg Required: ☒
Email To: walter.howard@aecom.com
Fax To #:

ANALYSIS REQUESTED: TO-15 (SIM)

Please fill out completely, sign, date and retain the yellow copy for your records

Summa canisters and flow controllers must be returned within 15 days of receipt or rental fees will apply

For summa canister and flow controller information please refer to Con-Test's Air Media Agreement

Pace Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Total Minutes Sampled	Flow Rate ☐ m³/min ☐ L/min	Matrix Code	Volume ☒ Liters ☐ m³	TO-15 (SIM)	Initial Pressure (" Hg)	Final Pressure (" Hg)	Lab Receipt Pressure (" Hg)	Summa Can ID	Flow Controller ID
1	Structure 2 -OA-1-03302022	3/29/22 0913	3/30/22 0815	1382		AMB	6	X	29.5	10.5	-7.9	BC1486	3256
2	Structure 2 -IA-103302022	3/29/22 0915	3/30/22 0900	1425		IA	↓	↓	29.0	9.0	-8.7	BC1038	3257
3	Structure 2 -SS-1-03302022	3/29/22 0917	3/30/22 0856	1419		SS			30.0	12.0	-11.2	BC1162	3064
4	Structure 3 -OA-1-03302022	3/29/22 1015	3/30/22 0915	1380		AMB			28.0	9.0	-7.9	BC1745	3521
5	Structure 3 -IA-103302022	3/29/22 1030	3/30/22 1255	1585		IA			27.0	4.0	-4.7	BC1502	3503
6	Structure 3 -IA-DUP-03302022	3/29/22	3/30/22	—		IA			28.0	5.5	-4.9	BC1611	3363
7	Structure 3 -IA-2-03302022	3/29/22 1035	3/30/22 1236	1581		IA			28.0	5.5	-4.6	BC1816	3305
8	** Structure 4 -SS-1-03302022	3/29/22 1339	3/30/22 1316	1417		SS			29.0	24.0	-23.5	BC2163	3600
9	Structure 4 -IA-1-03302022	3/29/22 1342	3/30/22 1318	1416		IA	↓	↓	27.0	9.0	-5.5	BC1951	3468

Comments: * NYS-ASP Cat B Data Pakage + NYSDEC Equis EDD
** - May have water in candy kane

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Matrix Codes:
SG = SOIL GAS
IA = INDOOR AIR
AMB = AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = Other______

	Date/Time
Relinquished by: (signature) [signature]	3/30/22 1626
Received by: (signature) [signature] PACE	3/30/22 16:26
Relinquished by: (signature) [signature] PACE	3/31/22
Received by: (signature) [signature] PACE	3-31-22
Relinquished by: (signature) [signature] PACE	3-31-22 1530
Received by: (signature) [signature]	3/31/22 1530
[signature]	3-31-22 1630

Detection Limit Requirements / **Special Requirements**
MA: ☐ MA MCP Required; MCP Certification Form Required
CT: ☐ CT RCP Required; RCP Certification Form Required
Other: ☐ Other

Pace Analytical®

NELAC and AIHA-LAP, LLC Accredited

Project Entity: ☒ Government ☐ Federal ☐ City ☐ Municipality ☐ 21 J ☐ Brownfield ☐ MWRA ☐ School ☐ MBTA ☐ WRTA

Other: ☐ Chromatogram ☐ AIHA-LAP,LLC

PCB ONLY: ☐ Soxhlet ☐ Non Soxhlet

220004

Pace Analytical®

Phone: 413-525-2332
Fax: 413-525-6405
www.pacelabs.com

http://www.pacelabs.com DOC #378 REV3_11232021

CHAIN OF CUSTODY RECORD (AIR)

39 Spruce Street
East Longmeadow, MA 01028

Company Name: AECOM
Address: 40 British American Blvd.
Phone: 518-951-2200
Project Name: Korkay
Project Location: Broadalbin NY
Project Number: 60631025
Project Manager: Walt Howard
Pace Quote Name/Number:
Invoice Recipient: Accounts Receivable
Sampled By: CJF-SRG

Turnaround Time (TAT) Requested
7-Day ☐ 10-Day ☒
Due Date:

Rush Turnaround Requires
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☐ EXCEL ☐
Other: * see comments
CLP Like Data Pkg Required: ☒
Email To: walter.howard@aecom.com
Fax To #:

ANALYSIS REQUESTED

Lab Use	Client Use	Collection Data		Duration	Flow Rate	Matrix	Volume	TO-15 (SIM)			" Hg			Please fill out completely, sign, date and retain the yellow copy for your records	
Pace Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Total Minutes Sampled	☐ m³/min ☐ L/min	Code	☒ Liters ☐ m³				Initial Pressure	Final Pressure	Lab Receipt Pressure	Summa Can ID	Flow Controller ID
10	Structure 4 -SA-1-03302022	3/29/22 1345	3/30/22 1330	1425		AMB	6	X			29.0	9.0	-7.8	BC1071	3076
11	Structure 4 -IA-2-03302022	3/29/22 1352	3/30/22 1324	1412		IA					29.0	9.0	-8.6	BC1626	3510
12	Structure 4 -IA-3-03302022	3/29/22 1353	3/30/22 1325	1410		IA					29.0	8.0	-7.6	BC2154	3434
13	Structure 4 -IA-4-03302022	3/29/22 1358	3/30/22 1326	1408		IA					30.0	6.0	-5.5	BC2210	3058
14	Structure 5 -SS-1-03302022	3/29/22 1545	3/30/22 1525	1420		SS					30.0	13.0	-11.5	BC2205	3351
15	Structure 5 -IA-1-03302022	3/29/22 1548	3/30/22 1526	1418		IA					28.5	8.0	-7.8	BC1839	3086

Please fill out completely, sign, date and retain the yellow copy for your records

Summa canisters and flow controllers must be returned within 15 days of receipt or rental fees will apply

For summa canister and flow controller information please refer to Con-Test's Air Media Agreement

Comments: * NYS-ASP Cat B Data Package + NYSDEC Equis EDD

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Matrix Codes:
SG = SOIL GAS
IA = INDOOR AIR
AMB = AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = Other_____

	Date/Time:
Relinquished by: (signature)	3/30/22 1626
Received by: (signature) PACE	3/30/22 16:26
Relinquished by: (signature) PACE	3/31/22
Received by: (signature) PACE	3-31-22
Relinquished by: (signature) PACE	3-31-22 1530
Received by: (signature)	3-31-22 1530

3/31/22 1636

Data Deliverable Requirements
NY
Other

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ Other

Pace Analytical®
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☒ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 278 Rev 6 2017

Air Media Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client AECOM

Received By	LR	Date	3/31/22	Time	1636		
How were the samples received?	In Cooler		On Ice		No Ice		
	In Box	T	Ambient		Melted Ice		
Were samples within Temperature Compliance? 2-6°C		NA	By Gun #	NA	Actual Temp -	NA	
			By Blank #		Actual Temp -		
Was Custody Seal Intact?		NA	Were Samples Tampered with?			NA	
Was COC Relinquished ?		T	Does Chain Agree With Samples?			T	
Are there any loose caps/valves on any samples?			F				
Is COC in ink/ Legible?		T					
Did COC Include all Pertinent Information?	Client	T	Analysis	T	Sampler Name	T	
	Project	T	ID's	T	Collection Dates/Times	T	
Are Sample Labels filled out and legible?			T				
Are there Rushes?		F	Who was notified?				
Samples are received within holding time?			T				
Proper Media Used?		T	Individually Certified Cans?			F	
Are there Trip Blanks?		F	Is there enough Volume?			T	

Containers:	#	Size	Regulator	Duration	Accessories:			
Summa Cans	15	6L	15	24 hr	Nut/Ferrule		IC Train	
Tedlar Bags					Tubing			
TO-17 Tubes					T-Connector		Shipping Charges	
Radiello					Syringe			
Pufs/TO-11s					Tedlar			

Can #'s					Reg #'s				
1876	2205				3305	3351			
1986	2163	1839			3256	3600	3086		
1038	1951				3257	3462			
1162	1071				3064	3676			
1745	1626				3521	3510			
1502	2154				3503	3434			
1611	2210				3363	3058			
Unused Media					**Pufs/TO-17's**				

Comments:

Air Sampling Media Certificate of Analysis

Date Analyzed: 3/15/2022 **Batch #:** 22CC0251

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs:			
	BC1986	BC2154	

Note:Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.20	Hexane	<0.02	1,2-Dibromomethane
<0.04	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1.3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.20	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.20	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.2	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.20	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: BRF 4/11/2022

Air Sampling Media Certificate of Analysis

Date Analyzed: 3/22/2022 **Batch #:** 22CC0271

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs:			
	BC1038	BC1876	BC1951
	BC1626		

Note:Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.20	Hexane	<0.02	1,2-Dibromomethane
<0.04	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1.3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.20	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.20	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.2	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.20	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: BRF 4/11/2022

Air Sampling Media Certificate of Analysis

Date Analyzed: 3/16/2022 **Batch #:** 22CC0246

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs:	BC1162	BC1745	BC1502

Note:Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.20	Hexane	<0.02	1,2-Dibromomethane
<0.04	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1.3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.20	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.20	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.2	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.20	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: BRF 4/11/2022

Air Sampling Media Certificate of Analysis

Date Analyzed: 2/8/2022 **Batch #:** 22CC0119

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs: BC1611

Note:Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.20	Hexane	<0.02	1,2-Dibromomethane
<0.04	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1.3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.20	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.20	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.2	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.20	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: BRF 4/11/2022

Air Sampling Media Certificate of Analysis

Date Analyzed: 3/14/2022 **Batch #:** 22CC0242

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs: BC2163

Note:Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.20	Hexane	<0.02	1,2-Dibromomethane
<0.04	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1.3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.20	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.20	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.2	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.20	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: BRF 4/11/2022

Air Sampling Media Certificate of Analysis

Date Analyzed: 2/10/2022 **Batch #:** 22CC0127

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs: BC1071

Note:Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.20	Hexane	<0.02	1,2-Dibromomethane
<0.04	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1.3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.20	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.20	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.2	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.20	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: BRF 4/11/2022

Air Sampling Media Certificate of Analysis

Date Analyzed: 3/13/2022 **Batch #:** 22CC0226

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs: BC2210

Note:Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.20	Hexane	<0.02	1,2-Dibromomethane
<0.04	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1.3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.20	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.20	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.2	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.20	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: BRF 4/11/2022

Air Sampling Media Certificate of Analysis

Date Analyzed: 3/6/2022 **Batch #:** 22CC0206

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs:			
BC2205	BC1839		

Note:Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.20	Hexane	<0.02	1,2-Dibromomethane
<0.04	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1.3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.20	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.20	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.2	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.20	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: BRF 4/11/2022

VALIDATA
Chemical Services, Inc.
2159 Wynnton Pointe, Duluth, GA 30097
(770) 232-0130
(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	AECOM Technical Services Northeast, Inc.
PROJECT NAME:	KorKay Inc. # 518014
CONTRACTED LAB:	con-test
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	EPA Methods
VALIDATION GUIDELINES:	*USEPA Region II data validation SOPs (VOA HW-24 Rev.4, SVOC HW-22 Rev.5, PEST-HW-44, Rev 1.1, PCB HW-37a Rev. 0, METALS_SOP_HW3a-ICP-AES Rev 1.1 and HW3c-Hg-CN, Rev. 1, VOA-TO15 HW-31 Rev.6), USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review,* **2008**; *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review,***2010**; NYDEC *Guidelines for Sampling and Analysis of PFAS,* January 2020, Professional Judgment
SAMPLE MATRIX:	Air
TYPES OF ANALYSES:	Volatile Organic Carbons (VOC)
DATA REVIEWER(S):	Amy L. Hogan
SDG NUMBER:	22D0004
SAMPLING DATE(S):	March 30, 2022

SAMPLES:

Client Sample ID	Laboratory ID	VOC
Structure 2-OA-1-03302022	22D0004-01	X
Structure 2-IA-1-03302022	22D0004-02	X
Structure 2-IA-1-03302022DL	22D0004-022DL	X
Structure 2-IA-1-03302022MD	22D0004-02MD	X
Structure 2-SS-1-03302022	22D0004-03	X
Structure 3-OA-1-03302022	22D0004-04	X
Structure 3-IA-1-03302022	22D0004-05	X
Structure 3-IA-1-03302022DL	22D0004-05DL	X
Structure 3-IA-DUP-03302022	22D0004-06	X
Structure 3-IA-DUP-03302022DL	22D0004-06DL	X
Structure 3-IA-2-03302022	22D0004-07	X
Structure 4-IA-1-03302022	22D0004-09	X
Structure 4-IA-1-03302022DL	22D0004-09DL	X
Structure 4-0A-1-03302022	22D0004-10	X
Structure 4-IA-2-03302022	22D0004-11	X
Structure 4-IA-2-03302022DL	22D0004-11DL	X

Client Sample ID	Laboratory ID	VOC
Structure 4-IA-3-03302022	22D0004-12	X
Structure 4-IA-4-03302022	22D0004-13	X
Structure 5-SS-1-03302022	22D0004-14	X
Structure 5-IA-1-03302022	22D0004-15	X
Structure 5-IA-1-03302022DL	22D0004-15DL	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

con-test – 22D0004

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per EPA Method TO-15.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

The Percent Differences (%Ds) for the standards run on 3/16/22 at 23:55 on instrument SYSK exceeded the 30% QC limit for the following compounds:

Benzyl chloride	-40.7%
1,2,4-trichlorobenzene	-40.2%

The results for these compounds in the associated SDG samples, which were all non-detect, were qualified as estimated (UJ). The associated samples were all SDG samples except Structure 2 -SS-1-03302022 and Structure 5 -SS-1-03302022.

Continuing Calibration:

All Continuing Calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were no detections reported for the associated method blanks. No data qualification was necessary.

Canister Blanks:

There were no detects in the canister check blanks for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

Two LCS were analyzed by the laboratory for this SDG. All criteria were met. No data qualification was necessary.

IX.) Matrix Duplicate:

Matrix Duplicate analysis was performed using sample Structure 2 -IA-1-03302022. The Relative Percent Difference (RPD) for 4-ethyltoluene at 32.4% exceeded the QC limit. Citing professional judgment, the validator has qualified the positive 4-ethyltoluene result for the parent sample as estimated (J).

X.) Field Duplicates:

One set of field duplicate samples (Structure 3 -IA-1-03302022 / Structure 3 -IA-DUP-03302022) was identified as part of this SDG. The calculable Relative Percent Differences (RPDs) for the first set were:

Acetone	24%
Benzene	0%
2-butanone	15%
Carbon tetrachloride	2.8%
Chloromethane	18%
Freon 12	0%
Ethanol	0%
Ethyl acetate	14%

Ethylbenzene	15%
Heptane	0%
Hexane	17%
Isopropanol	41%
Methylene chloride	59%
Naphthalene	4.4%
Styrene	31%
Tetrachloroethylene	5.1%
Tetrahydrofuran	4.4%
Toluene	5.7%
Freon 11	6.9%
Freon 113	1.7%
M,p-xylene	2.6%
o-xylene	6.9%

The RPD for methylene chloride exceeded the 50% QC limit. The RPDs for trichloroethylene and 1,2,4-trimethylbenzene were set at 200% since one of the results for these compounds in the two samples was reported as non-detect. Citing the exceedances and professional judgment, the validator has qualified the positive results for methylene chloride in the two samples as estimated (J) and has qualified the positive and non-detect trichloroethylene and 1,2,4-trimethylbenzene results for the two samples as estimated (J) and (UJ).

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

The initial analysis ethanol results for samples Structure 2-IA-1-03302022, Structure 3-IA-1-03302022, Structure 3-IA-DUP-03302022, Structure 4-IA-1-03302022, Structure 4-IA-2-03302022 and Structure 5-IA-1-03302022 and the initial analysis acetone result for sample Structure 5-IA-1-03302022 exceeded the linear calibration range. A dilution analysis was performed for each sample with all linear calibration criteria met. Since the Form Is for each sample is a composite of the results, no data qualification was necessary

Attachment A

Sample Result Forms (FORM Is) Corrected for Validation Qualifiers

con-test® A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 2 **-OA-1-03302022**
Sample ID: 22D0004-01
Sample Matrix: Ambient Air
Sampled: 3/30/2022 08:15

Sample Description/Location:
Sub Description/Location:
Canister ID: 1986
Canister Size: 6 liter
Flow Controller ID: 3256
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -29.5
Final Vacuum(in Hg): -10.5
Receipt Vacuum(in Hg): -7.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	Results	RL	MDL	Flag/Qual	Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	3.0	1.4	0.84		7.0	3.3	2.0	0.698	4/7/22 14:50	BRF
Benzene	0.18	0.035	0.026		0.58	0.11	0.084	0.698	4/7/22 14:50	BRF
Benzyl chloride	ND	0.070	0.031		ND UJ	0.36	0.16	0.698	4/7/22 14:50	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	4/7/22 14:50	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	4/7/22 14:50	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	4/7/22 14:50	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	4/7/22 14:50	BRF
2-Butanone (MEK)	0.46	1.4	0.37	J	1.4	4.1	1.1	0.698	4/7/22 14:50	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	4/7/22 14:50	BRF
Carbon Tetrachloride	0.070	0.035	0.028		0.44	0.22	0.17	0.698	4/7/22 14:50	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	4/7/22 14:50	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	4/7/22 14:50	BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	4/7/22 14:50	BRF
Chloromethane	0.56	0.070	0.028		1.2	0.14	0.057	0.698	4/7/22 14:50	BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.079	0.698	4/7/22 14:50	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	4/7/22 14:50	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	4/7/22 14:50	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	4/7/22 14:50	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	4/7/22 14:50	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	4/7/22 14:50	BRF
Dichlorodifluoromethane (Freon 12)	0.48	0.035	0.034		2.4	0.17	0.17	0.698	4/7/22 14:50	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	4/7/22 14:50	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	4/7/22 14:50	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 14:50	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	4/7/22 14:50	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 14:50	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	4/7/22 14:50	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	4/7/22 14:50	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	4/7/22 14:50	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	4/7/22 14:50	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	4/7/22 14:50	BRF
Ethanol	5.2	1.4	0.62		9.8	2.6	1.2	0.698	4/7/22 14:50	BRF
Ethyl Acetate	ND	0.35	0.18		ND	1.3	0.64	0.698	4/7/22 14:50	BRF
Ethylbenzene	ND	0.035	0.020		ND	0.15	0.088	0.698	4/7/22 14:50	BRF
4-Ethyltoluene	ND	0.035	0.021		ND	0.17	0.11	0.698	4/7/22 14:50	BRF
Heptane	0.033	0.035	0.022	J	0.14	0.14	0.091	0.698	4/7/22 14:50	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	4/7/22 14:50	BRF
Hexane	0.32	1.4	0.18	J	1.1	4.9	0.64	0.698	4/7/22 14:50	BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.698	4/7/22 14:50	BRF
Isopropanol	0.63	1.4	0.24	J	1.6	3.4	0.59	0.698	4/7/22 14:50	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	4/7/22 14:50	BRF
Methylene Chloride	0.31	0.35	0.16	J	1.1	1.2	0.56	0.698	4/7/22 14:50	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	4/7/22 14:50	BRF
Naphthalene	ND	0.035	0.022		ND	0.18	0.12	0.698	4/7/22 14:50	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	4/7/22 14:50	BRF
Styrene	ND	0.035	0.018		ND	0.15	0.078	0.698	4/7/22 14:50	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	4/7/22 14:50	BRF

ALH 5/13/22

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 2 **-OA-1-03302022**
Sample ID: 22D0004-01
Sample Matrix: Ambient Air
Sampled: 3/30/2022 08:15

Sample Description/Location:
Sub Description/Location:
Canister ID: 1986
Canister Size: 6 liter
Flow Controller ID: 3256
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -29.5
Final Vacuum(in Hg): -10.5
Receipt Vacuum(in Hg): -7.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	ND	0.035	0.027		ND	0.24	0.18	0.698	4/7/22 14:50	BRF
Tetrahydrofuran	0.10	0.35	0.057	J	0.30	1.0	0.17	0.698	4/7/22 14:50	BRF
Toluene	0.20	0.035	0.020		0.74	0.13	0.075	0.698	4/7/22 14:50	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND UJ	0.26	0.18	0.698	4/7/22 14:50	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	4/7/22 14:50	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	4/7/22 14:50	BRF
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.698	4/7/22 14:50	BRF
Trichlorofluoromethane (Freon 11)	0.23	0.14	0.041		1.3	0.78	0.23	0.698	4/7/22 14:50	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.076	0.14	0.039	J	0.58	1.1	0.30	0.698	4/7/22 14:50	BRF
1,2,4-Trimethylbenzene	0.022	0.035	0.015	J	0.11	0.17	0.076	0.698	4/7/22 14:50	BRF
1,3,5-Trimethylbenzene	ND	0.035	0.018		ND	0.17	0.091	0.698	4/7/22 14:50	BRF
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.698	4/7/22 14:50	BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	4/7/22 14:50	BRF
m&p-Xylene	0.067	0.070	0.039	J	0.29	0.30	0.17	0.698	4/7/22 14:50	BRF
o-Xylene	0.028	0.035	0.018	J	0.12	0.15	0.078	0.698	4/7/22 14:50	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	101	70-130	4/7/22 14:50

ALH 5/13/22

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 2 **-IA-1-03302022**
Sample ID: 22D0004-02
Sample Matrix: Indoor air
Sampled: 3/30/2022 00:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 1038
Canister Size: 6 liter
Flow Controller ID: 3257
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -8.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	Results	RL	MDL	Flag/Qual	Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	12	1.4	0.84		30	3.3	2.0	0.698	4/7/22 15:56	BRF
Benzene	0.75	0.035	0.026		2.4	0.11	0.084	0.698	4/7/22 15:56	BRF
Benzyl chloride	ND	0.070	0.031		ND UJ	0.36	0.16	0.698	4/7/22 15:56	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	4/7/22 15:56	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	4/7/22 15:56	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	4/7/22 15:56	BRF
1,3-Butadiene	0.59	0.035	0.029		1.3	0.077	0.065	0.698	4/7/22 15:56	BRF
2-Butanone (MEK)	0.97	1.4	0.37	J	2.9	4.1	1.1	0.698	4/7/22 15:56	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	4/7/22 15:56	BRF
Carbon Tetrachloride	0.066	0.035	0.028		0.42	0.22	0.17	0.698	4/7/22 15:56	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	4/7/22 15:56	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	4/7/22 15:56	BRF
Chloroform	0.079	0.035	0.033		0.38	0.17	0.16	0.698	4/7/22 15:56	BRF
Chloromethane	1.1	0.070	0.028		2.3	0.14	0.057	0.698	4/7/22 15:56	BRF
Cyclohexane	0.41	0.035	0.023		1.4	0.12	0.079	0.698	4/7/22 15:56	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	4/7/22 15:56	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	4/7/22 15:56	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	4/7/22 15:56	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	4/7/22 15:56	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	4/7/22 15:56	BRF
Dichlorodifluoromethane (Freon 12)	0.47	0.035	0.034		2.3	0.17	0.17	0.698	4/7/22 15:56	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	4/7/22 15:56	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	4/7/22 15:56	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 15:56	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	4/7/22 15:56	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 15:56	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	4/7/22 15:56	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	4/7/22 15:56	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	4/7/22 15:56	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	4/7/22 15:56	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	4/7/22 15:56	BRF
Ethanol	830	60	26		1600	110	50	30	4/8/22 16:09	BRF
Ethyl Acetate	1.5	0.35	0.18		5.5	1.3	0.64	0.698	4/7/22 15:56	BRF
Ethylbenzene	0.48	0.035	0.020		2.1	0.15	0.088	0.698	4/7/22 15:56	BRF
4-Ethyltoluene	0.10	0.035	0.021		0.50 J	0.17	0.11	0.698	4/7/22 15:56	BRF
Heptane	0.54	0.035	0.022		2.2	0.14	0.091	0.698	4/7/22 15:56	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	4/7/22 15:56	BRF
Hexane	1.5	1.4	0.18		5.4	4.9	0.64	0.698	4/7/22 15:56	BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.698	4/7/22 15:56	BRF
Isopropanol	4.2	1.4	0.24		10	3.4	0.59	0.698	4/7/22 15:56	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	4/7/22 15:56	BRF
Methylene Chloride	0.42	0.35	0.16		1.4	1.2	0.56	0.698	4/7/22 15:56	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	4/7/22 15:56	BRF
Naphthalene	1.2	0.035	0.022		6.4	0.18	0.12	0.698	4/7/22 15:56	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	4/7/22 15:56	BRF
Styrene	0.093	0.035	0.018		0.40	0.15	0.078	0.698	4/7/22 15:56	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	4/7/22 15:56	BRF

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 2 **-IA-1-03302022**
Sample ID: 22D0004-02
Sample Matrix: Indoor air
Sampled: 3/30/2022 00:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 1038
Canister Size: 6 liter
Flow Controller ID: 3257
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -8.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	ppbv MDL	Flag/Qual	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Dilution	Date/Time Analyzed	Analyst
Tetrachloroethylene	0.052	0.035	0.027		0.35	0.24	0.18	0.698	4/7/22 15:56	BRF
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.698	4/7/22 15:56	BRF
Toluene	2.6	0.035	0.020		10.0	0.13	0.075	0.698	4/7/22 15:56	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND UJ	0.26	0.18	0.698	4/7/22 15:56	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	4/7/22 15:56	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	4/7/22 15:56	BRF
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.698	4/7/22 15:56	BRF
Trichlorofluoromethane (Freon 11)	0.77	0.14	0.041		4.3	0.78	0.23	0.698	4/7/22 15:56	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.084	0.14	0.039	J	0.65	1.1	0.30	0.698	4/7/22 15:56	BRF
1,2,4-Trimethylbenzene	0.31	0.035	0.015		1.5	0.17	0.076	0.698	4/7/22 15:56	BRF
1,3,5-Trimethylbenzene	0.089	0.035	0.018		0.44	0.17	0.091	0.698	4/7/22 15:56	BRF
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.698	4/7/22 15:56	BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	4/7/22 15:56	BRF
m&p-Xylene	2.0	0.070	0.039		8.7	0.30	0.17	0.698	4/7/22 15:56	BRF
o-Xylene	0.90	0.035	0.018		3.9	0.15	0.078	0.698	4/7/22 15:56	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	103	70-130	4/7/22 15:56
4-Bromofluorobenzene (1)	97.6	70-130	4/8/22 16:09

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 2 **-SS-1-03302022**
Sample ID: 22D0004-03
Sample Matrix: Sub Slab
Sampled: 3/30/2022 08:56

Sample Description/Location:
Sub Description/Location:
Canister ID: 1162
Canister Size: 6 liter
Flow Controller ID: 3064
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -12
Receipt Vacuum(in Hg): -11.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	53	8.0	4.8		120	19	11	4	4/11/22 23:00	BRF
Benzene	0.64	0.20	0.15		2.0	0.64	0.48	4	4/11/22 23:00	BRF
Benzyl chloride	ND	0.20	0.18		ND	1.0	0.91	4	4/11/22 23:00	BRF
Bromodichloromethane	ND	0.20	0.14		ND	1.3	0.94	4	4/11/22 23:00	BRF
Bromoform	ND	0.20	0.14		ND	2.1	1.4	4	4/11/22 23:00	BRF
Bromomethane	ND	0.20	0.16		ND	0.78	0.63	4	4/11/22 23:00	BRF
1,3-Butadiene	ND	0.20	0.17		ND	0.44	0.37	4	4/11/22 23:00	BRF
2-Butanone (MEK)	3.7	8.0	2.1	J	11	24	6.3	4	4/11/22 23:00	BRF
Carbon Disulfide	ND	2.0	0.18		ND	6.2	0.58	4	4/11/22 23:00	BRF
Carbon Tetrachloride	ND	0.20	0.16		ND	1.3	1.0	4	4/11/22 23:00	BRF
Chlorobenzene	ND	0.20	0.13		ND	0.92	0.61	4	4/11/22 23:00	BRF
Chloroethane	ND	0.20	0.15		ND	0.53	0.39	4	4/11/22 23:00	BRF
Chloroform	ND	0.20	0.19		ND	0.98	0.93	4	4/11/22 23:00	BRF
Chloromethane	ND	0.40	0.16		ND	0.83	0.33	4	4/11/22 23:00	BRF
Cyclohexane	ND	0.20	0.13		ND	0.69	0.46	4	4/11/22 23:00	BRF
Dibromochloromethane	ND	0.20	0.13		ND	1.7	1.1	4	4/11/22 23:00	BRF
1,2-Dibromoethane (EDB)	ND	0.20	0.12		ND	1.5	0.93	4	4/11/22 23:00	BRF
1,2-Dichlorobenzene	ND	0.20	0.11		ND	1.2	0.69	4	4/11/22 23:00	BRF
1,3-Dichlorobenzene	ND	0.20	0.11		ND	1.2	0.67	4	4/11/22 23:00	BRF
1,4-Dichlorobenzene	ND	0.20	0.13		ND	1.2	0.79	4	4/11/22 23:00	BRF
Dichlorodifluoromethane (Freon 12)	0.46	0.20	0.20		2.3	0.99	0.97	4	4/11/22 23:00	BRF
1,1-Dichloroethane	ND	0.20	0.17		ND	0.81	0.71	4	4/11/22 23:00	BRF
1,2-Dichloroethane	ND	0.20	0.18		ND	0.81	0.73	4	4/11/22 23:00	BRF
1,1-Dichloroethylene	ND	0.20	0.15		ND	0.79	0.60	4	4/11/22 23:00	BRF
cis-1,2-Dichloroethylene	ND	0.20	0.15		ND	0.79	0.58	4	4/11/22 23:00	BRF
trans-1,2-Dichloroethylene	ND	0.20	0.16		ND	0.79	0.62	4	4/11/22 23:00	BRF
1,2-Dichloropropane	ND	0.20	0.11		ND	0.92	0.50	4	4/11/22 23:00	BRF
cis-1,3-Dichloropropene	ND	0.20	0.10		ND	0.91	0.47	4	4/11/22 23:00	BRF
trans-1,3-Dichloropropene	ND	0.20	0.10		ND	0.91	0.46	4	4/11/22 23:00	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.20	0.20		ND	1.4	1.4	4	4/11/22 23:00	BRF
1,4-Dioxane	ND	2.0	0.17		ND	7.2	0.60	4	4/11/22 23:00	BRF
Ethanol	12	8.0	3.5		22	15	6.6	4	4/11/22 23:00	BRF
Ethyl Acetate	ND	2.0	1.0		ND	7.2	3.6	4	4/11/22 23:00	BRF
Ethylbenzene	0.84	0.20	0.12		3.6	0.87	0.51	4	4/11/22 23:00	BRF
4-Ethyltoluene	ND	0.20	0.12		ND	0.98	0.60	4	4/11/22 23:00	BRF
Heptane	17	0.20	0.13		71	0.82	0.52	4	4/11/22 23:00	BRF
Hexachlorobutadiene	ND	0.20	0.16		ND	2.1	1.8	4	4/11/22 23:00	BRF
Hexane	2.8	8.0	1.0	J	9.8	28	3.7	4	4/11/22 23:00	BRF
2-Hexanone (MBK)	ND	0.20	0.10		ND	0.82	0.41	4	4/11/22 23:00	BRF
Isopropanol	2.4	8.0	1.4	J	5.8	20	3.4	4	4/11/22 23:00	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.20	0.15		ND	0.72	0.56	4	4/11/22 23:00	BRF
Methylene Chloride	ND	2.0	0.93		ND	6.9	3.2	4	4/11/22 23:00	BRF
4-Methyl-2-pentanone (MIBK)	0.52	0.20	0.10		2.1	0.82	0.42	4	4/11/22 23:00	BRF
Naphthalene	ND	0.20	0.13		ND	1.0	0.66	4	4/11/22 23:00	BRF
Propene	ND	8.0	1.8		ND	14	3.0	4	4/11/22 23:00	BRF
Styrene	ND	0.20	0.11		ND	0.85	0.45	4	4/11/22 23:00	BRF
1,1,2,2-Tetrachloroethane	ND	0.20	0.11		ND	1.4	0.74	4	4/11/22 23:00	BRF

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 2 **-SS-1-03302022**
Sample ID: 22D0004-03
Sample Matrix: Sub Slab
Sampled: 3/30/2022 08:56

Sample Description/Location:
Sub Description/Location:
Canister ID: 1162
Canister Size: 6 liter
Flow Controller ID: 3064
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -12
Receipt Vacuum(in Hg): -11.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	ND	0.20	0.15		ND	1.4	1.0	4	4/11/22 23:00	BRF
Tetrahydrofuran	1.5	2.0	0.33	J	4.3	5.9	0.97	4	4/11/22 23:00	BRF
Toluene	2.3	0.20	0.11		8.7	0.75	0.43	4	4/11/22 23:00	BRF
1,2,4-Trichlorobenzene	ND	0.20	0.14		ND	1.5	1.0	4	4/11/22 23:00	BRF
1,1,1-Trichloroethane	ND	0.20	0.16		ND	1.1	0.86	4	4/11/22 23:00	BRF
1,1,2-Trichloroethane	ND	0.20	0.14		ND	1.1	0.77	4	4/11/22 23:00	BRF
Trichloroethylene	ND	0.20	0.13		ND	1.1	0.72	4	4/11/22 23:00	BRF
Trichlorofluoromethane (Freon 11)	0.55	0.80	0.24	J	3.1	4.5	1.3	4	4/11/22 23:00	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.80	0.22		ND	6.1	1.7	4	4/11/22 23:00	BRF
1,2,4-Trimethylbenzene	0.80	0.20	0.088		3.9	0.98	0.43	4	4/11/22 23:00	BRF
1,3,5-Trimethylbenzene	0.54	0.20	0.11		2.7	0.98	0.52	4	4/11/22 23:00	BRF
Vinyl Acetate	ND	4.0	1.1		ND	14	3.8	4	4/11/22 23:00	BRF
Vinyl Chloride	ND	0.20	0.18		ND	0.51	0.46	4	4/11/22 23:00	BRF
m&p-Xylene	2.7	0.40	0.22		12	1.7	0.97	4	4/11/22 23:00	BRF
o-Xylene	0.86	0.20	0.10		3.7	0.87	0.44	4	4/11/22 23:00	BRF

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	80.6	70-130		4/11/22 23:00

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 3 **-OA-1-03302022**
Sample ID: 22D0004-04
Sample Matrix: Ambient Air
Sampled: 3/30/2022 09:15

Sample Description/Location:
Sub Description/Location:
Canister ID: 1745
Canister Size: 6 liter
Flow Controller ID: 3521
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -7.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	Results	RL	MDL	Flag/Qual	Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	1.5	1.4	0.84		3.5	3.3	2.0	0.698	4/7/22 17:06	BRF
Benzene	0.14	0.035	0.026		0.46	0.11	0.084	0.698	4/7/22 17:06	BRF
Benzyl chloride	ND	0.070	0.031		ND UJ	0.36	0.16	0.698	4/7/22 17:06	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	4/7/22 17:06	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	4/7/22 17:06	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	4/7/22 17:06	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	4/7/22 17:06	BRF
2-Butanone (MEK)	ND	1.4	0.37		ND	4.1	1.1	0.698	4/7/22 17:06	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	4/7/22 17:06	BRF
Carbon Tetrachloride	0.075	0.035	0.028		0.47	0.22	0.17	0.698	4/7/22 17:06	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	4/7/22 17:06	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	4/7/22 17:06	BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	4/7/22 17:06	BRF
Chloromethane	0.58	0.070	0.028		1.2	0.14	0.057	0.698	4/7/22 17:06	BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.079	0.698	4/7/22 17:06	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	4/7/22 17:06	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	4/7/22 17:06	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	4/7/22 17:06	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	4/7/22 17:06	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	4/7/22 17:06	BRF
Dichlorodifluoromethane (Freon 12)	0.48	0.035	0.034		2.4	0.17	0.17	0.698	4/7/22 17:06	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	4/7/22 17:06	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	4/7/22 17:06	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 17:06	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	4/7/22 17:06	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 17:06	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	4/7/22 17:06	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	4/7/22 17:06	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	4/7/22 17:06	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	4/7/22 17:06	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	4/7/22 17:06	BRF
Ethanol	3.4	1.4	0.62		6.5	2.6	1.2	0.698	4/7/22 17:06	BRF
Ethyl Acetate	ND	0.35	0.18		ND	1.3	0.64	0.698	4/7/22 17:06	BRF
Ethylbenzene	0.022	0.035	0.020	J	0.094	0.15	0.088	0.698	4/7/22 17:06	BRF
4-Ethyltoluene	ND	0.035	0.021		ND	0.17	0.11	0.698	4/7/22 17:06	BRF
Heptane	ND	0.035	0.022		ND	0.14	0.091	0.698	4/7/22 17:06	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	4/7/22 17:06	BRF
Hexane	0.31	1.4	0.18	J	1.1	4.9	0.64	0.698	4/7/22 17:06	BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.698	4/7/22 17:06	BRF
Isopropanol	0.33	1.4	0.24	J	0.81	3.4	0.59	0.698	4/7/22 17:06	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	4/7/22 17:06	BRF
Methylene Chloride	0.25	0.35	0.16	J	0.87	1.2	0.56	0.698	4/7/22 17:06	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	4/7/22 17:06	BRF
Naphthalene	0.046	0.035	0.022		0.24	0.18	0.12	0.698	4/7/22 17:06	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	4/7/22 17:06	BRF
Styrene	ND	0.035	0.018		ND	0.15	0.078	0.698	4/7/22 17:06	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	4/7/22 17:06	BRF

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 3 **-OA-1-03302022**
Sample ID: 22D0004-04
Sample Matrix: Ambient Air
Sampled: 3/30/2022 09:15

Sample Description/Location:
Sub Description/Location:
Canister ID: 1745
Canister Size: 6 liter
Flow Controller ID: 3521
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -7.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	ND	0.035	0.027		ND	0.24	0.18	0.698	4/7/22 17:06	BRF
Tetrahydrofuran	0.073	0.35	0.057	J	0.21	1.0	0.17	0.698	4/7/22 17:06	BRF
Toluene	0.15	0.035	0.020		0.55	0.13	0.075	0.698	4/7/22 17:06	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND UJ	0.26	0.18	0.698	4/7/22 17:06	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	4/7/22 17:06	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	4/7/22 17:06	BRF
Trichloroethylene	0.069	0.035	0.024		0.37	0.19	0.13	0.698	4/7/22 17:06	BRF
Trichlorofluoromethane (Freon 11)	0.23	0.14	0.041		1.3	0.78	0.23	0.698	4/7/22 17:06	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.079	0.14	0.039	J	0.60	1.1	0.30	0.698	4/7/22 17:06	BRF
1,2,4-Trimethylbenzene	0.020	0.035	0.015	J	0.099	0.17	0.076	0.698	4/7/22 17:06	BRF
1,3,5-Trimethylbenzene	ND	0.035	0.018		ND	0.17	0.091	0.698	4/7/22 17:06	BRF
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.698	4/7/22 17:06	BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	4/7/22 17:06	BRF
m&p-Xylene	0.061	0.070	0.039	J	0.27	0.30	0.17	0.698	4/7/22 17:06	BRF
o-Xylene	0.023	0.035	0.018	J	0.100	0.15	0.078	0.698	4/7/22 17:06	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	100	70-130	4/7/22 17:06

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 3 **-IA-1-03302022**
Sample ID: 22D0004-05
Sample Matrix: Indoor air
Sampled: 3/30/2022 12:55

Sample Description/Location:
Sub Description/Location:
Canister ID: 1502
Canister Size: 6 liter
Flow Controller ID: 3503
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -4.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

		ppbv				ug/m3			Date/Time	
Analyte	Results	RL	MDL	Flag/Qual	Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	3.1	1.4	0.84		7.4	3.3	2.0	0.698	4/7/22 17:43	BRF
Benzene	0.39	0.035	0.026		1.3	0.11	0.084	0.698	4/7/22 17:43	BRF
Benzyl chloride	ND	0.070	0.031		ND UJ	0.36	0.16	0.698	4/7/22 17:43	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	4/7/22 17:43	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	4/7/22 17:43	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	4/7/22 17:43	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	4/7/22 17:43	BRF
2-Butanone (MEK)	0.48	1.4	0.37	J	1.4	4.1	1.1	0.698	4/7/22 17:43	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	4/7/22 17:43	BRF
Carbon Tetrachloride	0.057	0.035	0.028		0.36	0.22	0.17	0.698	4/7/22 17:43	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	4/7/22 17:43	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	4/7/22 17:43	BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	4/7/22 17:43	BRF
Chloromethane	0.56	0.070	0.028		1.2	0.14	0.057	0.698	4/7/22 17:43	BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.079	0.698	4/7/22 17:43	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	4/7/22 17:43	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	4/7/22 17:43	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	4/7/22 17:43	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	4/7/22 17:43	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	4/7/22 17:43	BRF
Dichlorodifluoromethane (Freon 12)	0.49	0.035	0.034		2.4	0.17	0.17	0.698	4/7/22 17:43	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	4/7/22 17:43	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	4/7/22 17:43	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 17:43	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	4/7/22 17:43	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 17:43	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	4/7/22 17:43	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	4/7/22 17:43	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	4/7/22 17:43	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	4/7/22 17:43	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	4/7/22 17:43	BRF
Ethanol	58	8.0	3.5		110	15	6.6	4	4/8/22 17:07	BRF
Ethyl Acetate	0.30	0.35	0.18	J	1.1	1.3	0.64	0.698	4/7/22 17:43	BRF
Ethylbenzene	0.028	0.035	0.020	J	0.12	0.15	0.088	0.698	4/7/22 17:43	BRF
4-Ethyltoluene	ND	0.035	0.021		ND	0.17	0.11	0.698	4/7/22 17:43	BRF
Heptane	0.043	0.035	0.022		0.17	0.14	0.091	0.698	4/7/22 17:43	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	4/7/22 17:43	BRF
Hexane	0.37	1.4	0.18	J	1.3	4.9	0.64	0.698	4/7/22 17:43	BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.698	4/7/22 17:43	BRF
Isopropanol	0.51	1.4	0.24	J	1.2	3.4	0.59	0.698	4/7/22 17:43	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	4/7/22 17:43	BRF
Methylene Chloride	0.35	0.35	0.16	J	1.2	1.2	0.56	0.698	4/7/22 17:43	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	4/7/22 17:43	BRF
Naphthalene	0.043	0.035	0.022		0.22	0.18	0.12	0.698	4/7/22 17:43	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	4/7/22 17:43	BRF
Styrene	0.025	0.035	0.018	J	0.11	0.15	0.078	0.698	4/7/22 17:43	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	4/7/22 17:43	BRF

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 3 **-IA-1-03302022**
Sample ID: 22D0004-05
Sample Matrix: Indoor air
Sampled: 3/30/2022 12:55

Sample Description/Location:
Sub Description/Location:
Canister ID: 1502
Canister Size: 6 liter
Flow Controller ID: 3503
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -4.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	0.030	0.035	0.027	J	0.20	0.24	0.18	0.698	4/7/22 17:43	BRF
Tetrahydrofuran	0.30	0.35	0.057	J	0.89	1.0	0.17	0.698	4/7/22 17:43	BRF
Toluene	0.22	0.035	0.020		0.84	0.13	0.075	0.698	4/7/22 17:43	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND UJ	0.26	0.18	0.698	4/7/22 17:43	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	4/7/22 17:43	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	4/7/22 17:43	BRF
Trichloroethylene	0.16	0.035	0.024		0.87	0.19	0.13	0.698	4/7/22 17:43	BRF
Trichlorofluoromethane (Freon 11)	0.26	0.14	0.041		1.5	0.78	0.23	0.698	4/7/22 17:43	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.077	0.14	0.039	J	0.59	1.1	0.30	0.698	4/7/22 17:43	BRF
1,2,4-Trimethylbenzene	0.022	0.035	0.015	J	0.11	0.17	0.076	0.698	4/7/22 17:43	BRF
1,3,5-Trimethylbenzene	ND	0.035	0.018		ND	0.17	0.091	0.698	4/7/22 17:43	BRF
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.698	4/7/22 17:43	BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	4/7/22 17:43	BRF
m&p-Xylene	0.090	0.070	0.039		0.39	0.30	0.17	0.698	4/7/22 17:43	BRF
o-Xylene	0.033	0.035	0.018	J	0.14	0.15	0.078	0.698	4/7/22 17:43	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	97.9	70-130	4/8/22 17:07
4-Bromofluorobenzene (1)	101	70-130	4/7/22 17:43

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 3 **-IA-DUP-03302022**
Sample ID: 22D0004-06
Sample Matrix: Indoor air
Sampled: 3/30/2022 00:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 1611
Canister Size: 6 liter
Flow Controller ID: 3363
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -5.5
Receipt Vacuum(in Hg): -4.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

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	ppbv				ug/m3				Date/Time	
Analyte	Results	RL	MDL	Flag/Qual	Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	2.4	1.4	0.84		5.8	3.3	2.0	0.698	4/7/22 18:18	BRF
Benzene	0.40	0.035	0.026		1.3	0.11	0.084	0.698	4/7/22 18:18	BRF
Benzyl chloride	ND	0.070	0.031		ND UJ	0.36	0.16	0.698	4/7/22 18:18	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	4/7/22 18:18	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	4/7/22 18:18	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	4/7/22 18:18	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	4/7/22 18:18	BRF
2-Butanone (MEK)	0.40	1.4	0.37	J	1.2	4.1	1.1	0.698	4/7/22 18:18	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	4/7/22 18:18	BRF
Carbon Tetrachloride	0.056	0.035	0.028		0.35	0.22	0.17	0.698	4/7/22 18:18	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	4/7/22 18:18	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	4/7/22 18:18	BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	4/7/22 18:18	BRF
Chloromethane	0.51	0.070	0.028		1.0	0.14	0.057	0.698	4/7/22 18:18	BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.079	0.698	4/7/22 18:18	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	4/7/22 18:18	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	4/7/22 18:18	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	4/7/22 18:18	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	4/7/22 18:18	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	4/7/22 18:18	BRF
Dichlorodifluoromethane (Freon 12)	0.48	0.035	0.034		2.4	0.17	0.17	0.698	4/7/22 18:18	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	4/7/22 18:18	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	4/7/22 18:18	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 18:18	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	4/7/22 18:18	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 18:18	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	4/7/22 18:18	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	4/7/22 18:18	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	4/7/22 18:18	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	4/7/22 18:18	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	4/7/22 18:18	BRF
Ethanol	59	8.0	3.5		110	15	6.6	4	4/8/22 17:35	BRF
Ethyl Acetate	0.27	0.35	0.18	J	0.96	1.3	0.64	0.698	4/7/22 18:18	BRF
Ethylbenzene	0.032	0.035	0.020	J	0.14	0.15	0.088	0.698	4/7/22 18:18	BRF
4-Ethyltoluene	ND	0.035	0.021		ND	0.17	0.11	0.698	4/7/22 18:18	BRF
Heptane	0.042	0.035	0.022		0.17	0.14	0.091	0.698	4/7/22 18:18	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	4/7/22 18:18	BRF
Hexane	0.30	1.4	0.18	J	1.1	4.9	0.64	0.698	4/7/22 18:18	BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.698	4/7/22 18:18	BRF
Isopropanol	0.32	1.4	0.24	J	0.79	3.4	0.59	0.698	4/7/22 18:18	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	4/7/22 18:18	BRF
Methylene Chloride	0.19	0.35	0.16	J	0.65	1.2	0.56	0.698	4/7/22 18:18	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	4/7/22 18:18	BRF
Naphthalene	0.043	0.035	0.022		0.23	0.18	0.12	0.698	4/7/22 18:18	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	4/7/22 18:18	BRF
Styrene	0.036	0.035	0.018		0.15	0.15	0.078	0.698	4/7/22 18:18	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	4/7/22 18:18	BRF

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 3 **-IA-DUP-03302022**
Sample ID: 22D0004-06
Sample Matrix: Indoor air
Sampled: 3/30/2022 00:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 1611
Canister Size: 6 liter
Flow Controller ID: 3363
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -5.5
Receipt Vacuum(in Hg): -4.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	ppbv MDL	Flag/Qual	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Dilution	Date/Time Analyzed	Analyst
Tetrachloroethylene	0.029	0.035	0.027	J	0.19	0.24	0.18	0.698	4/7/22 18:18	BRF
Tetrahydrofuran	0.31	0.35	0.057	J	0.93	1.0	0.17	0.698	4/7/22 18:18	BRF
Toluene	0.24	0.035	0.020		0.89	0.13	0.075	0.698	4/7/22 18:18	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND UJ	0.26	0.18	0.698	4/7/22 18:18	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	4/7/22 18:18	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	4/7/22 18:18	BRF
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.698	4/7/22 18:18	BRF
Trichlorofluoromethane (Freon 11)	0.26	0.14	0.041		1.4	0.78	0.23	0.698	4/7/22 18:18	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.078	0.14	0.039	J	0.60	1.1	0.30	0.698	4/7/22 18:18	BRF
1,2,4-Trimethylbenzene	ND	0.035	0.015		ND	0.17	0.076	0.698	4/7/22 18:18	BRF
1,3,5-Trimethylbenzene	ND	0.035	0.018		ND	0.17	0.091	0.698	4/7/22 18:18	BRF
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.698	4/7/22 18:18	BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	4/7/22 18:18	BRF
m&p-Xylene	0.087	0.070	0.039		0.38	0.30	0.17	0.698	4/7/22 18:18	BRF
o-Xylene	0.034	0.035	0.018	J	0.15	0.15	0.078	0.698	4/7/22 18:18	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	99.8	70-130	4/8/22 17:35
4-Bromofluorobenzene (1)	101	70-130	4/7/22 18:18

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 3 **-IA-2-03302022**
Sample ID: 22D0004-07
Sample Matrix: Indoor air
Sampled: 3/30/2022 12:56

Sample Description/Location:
Sub Description/Location:
Canister ID: 1876
Canister Size: 6 liter
Flow Controller ID: 3305
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -5.5
Receipt Vacuum(in Hg): -4.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	Results	RL	MDL	Flag/Qual	Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	1.8	1.4	0.84		4.4	3.3	2.0	0.698	4/7/22 18:54	BRF
Benzene	0.44	0.035	0.026		1.4	0.11	0.084	0.698	4/7/22 18:54	BRF
Benzyl chloride	ND	0.070	0.031		ND UJ	0.36	0.16	0.698	4/7/22 18:54	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	4/7/22 18:54	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	4/7/22 18:54	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	4/7/22 18:54	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	4/7/22 18:54	BRF
2-Butanone (MEK)	ND	1.4	0.37		ND	4.1	1.1	0.698	4/7/22 18:54	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	4/7/22 18:54	BRF
Carbon Tetrachloride	0.063	0.035	0.028		0.40	0.22	0.17	0.698	4/7/22 18:54	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	4/7/22 18:54	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	4/7/22 18:54	BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	4/7/22 18:54	BRF
Chloromethane	0.51	0.070	0.028		1.1	0.14	0.057	0.698	4/7/22 18:54	BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.079	0.698	4/7/22 18:54	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	4/7/22 18:54	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	4/7/22 18:54	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	4/7/22 18:54	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	4/7/22 18:54	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	4/7/22 18:54	BRF
Dichlorodifluoromethane (Freon 12)	0.50	0.035	0.034		2.5	0.17	0.17	0.698	4/7/22 18:54	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	4/7/22 18:54	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	4/7/22 18:54	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 18:54	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	4/7/22 18:54	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 18:54	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	4/7/22 18:54	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	4/7/22 18:54	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	4/7/22 18:54	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	4/7/22 18:54	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	4/7/22 18:54	BRF
Ethanol	9.8	1.4	0.62		19	2.6	1.2	0.698	4/7/22 18:54	BRF
Ethyl Acetate	ND	0.35	0.18		ND	1.3	0.64	0.698	4/7/22 18:54	BRF
Ethylbenzene	0.029	0.035	0.020	J	0.13	0.15	0.088	0.698	4/7/22 18:54	BRF
4-Ethyltoluene	ND	0.035	0.021		ND	0.17	0.11	0.698	4/7/22 18:54	BRF
Heptane	0.034	0.035	0.022	J	0.14	0.14	0.091	0.698	4/7/22 18:54	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	4/7/22 18:54	BRF
Hexane	0.31	1.4	0.18	J	1.1	4.9	0.64	0.698	4/7/22 18:54	BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.698	4/7/22 18:54	BRF
Isopropanol	0.39	1.4	0.24	J	0.97	3.4	0.59	0.698	4/7/22 18:54	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	4/7/22 18:54	BRF
Methylene Chloride	0.17	0.35	0.16	J	0.60	1.2	0.56	0.698	4/7/22 18:54	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	4/7/22 18:54	BRF
Naphthalene	0.033	0.035	0.022	J	0.17	0.18	0.12	0.698	4/7/22 18:54	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	4/7/22 18:54	BRF
Styrene	ND	0.035	0.018		ND	0.15	0.078	0.698	4/7/22 18:54	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	4/7/22 18:54	BRF

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 3 **-IA-2-03302022**
Sample ID: 22D0004-07
Sample Matrix: Indoor air
Sampled: 3/30/2022 12:56

Sample Description/Location:
Sub Description/Location:
Canister ID: 1876
Canister Size: 6 liter
Flow Controller ID: 3305
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -5.5
Receipt Vacuum(in Hg): -4.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	Results	RL	MDL	Flag/Qual	Results	RL	MDL	Dilution	Analyzed	Analyst
Tetrachloroethylene	0.027	0.035	0.027	J	0.18	0.24	0.18	0.698	4/7/22 18:54	BRF
Tetrahydrofuran	0.15	0.35	0.057	J	0.43	1.0	0.17	0.698	4/7/22 18:54	BRF
Toluene	0.22	0.035	0.020		0.81	0.13	0.075	0.698	4/7/22 18:54	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND UJ	0.26	0.18	0.698	4/7/22 18:54	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	4/7/22 18:54	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	4/7/22 18:54	BRF
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.698	4/7/22 18:54	BRF
Trichlorofluoromethane (Freon 11)	0.24	0.14	0.041		1.3	0.78	0.23	0.698	4/7/22 18:54	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.082	0.14	0.039	J	0.63	1.1	0.30	0.698	4/7/22 18:54	BRF
1,2,4-Trimethylbenzene	0.016	0.035	0.015	J	0.079	0.17	0.076	0.698	4/7/22 18:54	BRF
1,3,5-Trimethylbenzene	ND	0.035	0.018		ND	0.17	0.091	0.698	4/7/22 18:54	BRF
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.698	4/7/22 18:54	BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	4/7/22 18:54	BRF
m&p-Xylene	0.090	0.070	0.039		0.39	0.30	0.17	0.698	4/7/22 18:54	BRF
o-Xylene	0.031	0.035	0.018	J	0.14	0.15	0.078	0.698	4/7/22 18:54	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	103	70-130	4/7/22 18:54

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 4 **-IA-1-03302022**
Sample ID: 22D0004-09
Sample Matrix: Indoor air
Sampled: 3/30/2022 13:18

Sample Description/Location:
Sub Description/Location:
Canister ID: 1951
Canister Size: 6 liter
Flow Controller ID: 3468
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -9.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

		ppbv				ug/m3			Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	4.1	1.4	0.84		9.7	3.3	2.0	0.698	4/7/22 19:29	BRF
Benzene	0.15	0.035	0.026		0.47	0.11	0.084	0.698	4/7/22 19:29	BRF
Benzyl chloride	ND	0.070	0.031		ND UJ	0.36	0.16	0.698	4/7/22 19:29	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	4/7/22 19:29	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	4/7/22 19:29	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	4/7/22 19:29	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	4/7/22 19:29	BRF
2-Butanone (MEK)	0.60	1.4	0.37	J	1.8	4.1	1.1	0.698	4/7/22 19:29	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	4/7/22 19:29	BRF
Carbon Tetrachloride	0.078	0.035	0.028		0.49	0.22	0.17	0.698	4/7/22 19:29	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	4/7/22 19:29	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	4/7/22 19:29	BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	4/7/22 19:29	BRF
Chloromethane	0.53	0.070	0.028		1.1	0.14	0.057	0.698	4/7/22 19:29	BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.079	0.698	4/7/22 19:29	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	4/7/22 19:29	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	4/7/22 19:29	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	4/7/22 19:29	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	4/7/22 19:29	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	4/7/22 19:29	BRF
Dichlorodifluoromethane (Freon 12)	0.49	0.035	0.034		2.4	0.17	0.17	0.698	4/7/22 19:29	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	4/7/22 19:29	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	4/7/22 19:29	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 19:29	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	4/7/22 19:29	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 19:29	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	4/7/22 19:29	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	4/7/22 19:29	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	4/7/22 19:29	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	4/7/22 19:29	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	4/7/22 19:29	BRF
Ethanol	91	8.0	3.5		170	15	6.6	4	4/8/22 18:04	BRF
Ethyl Acetate	0.19	0.35	0.18	J	0.69	1.3	0.64	0.698	4/7/22 19:29	BRF
Ethylbenzene	0.053	0.035	0.020		0.23	0.15	0.088	0.698	4/7/22 19:29	BRF
4-Ethyltoluene	ND	0.035	0.021		ND	0.17	0.11	0.698	4/7/22 19:29	BRF
Heptane	0.043	0.035	0.022		0.17	0.14	0.091	0.698	4/7/22 19:29	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	4/7/22 19:29	BRF
Hexane	0.31	1.4	0.18	J	1.1	4.9	0.64	0.698	4/7/22 19:29	BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.698	4/7/22 19:29	BRF
Isopropanol	0.58	1.4	0.24	J	1.4	3.4	0.59	0.698	4/7/22 19:29	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	4/7/22 19:29	BRF
Methylene Chloride	0.35	0.35	0.16	J	1.2	1.2	0.56	0.698	4/7/22 19:29	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	4/7/22 19:29	BRF
Naphthalene	ND	0.035	0.022		ND	0.18	0.12	0.698	4/7/22 19:29	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	4/7/22 19:29	BRF
Styrene	0.033	0.035	0.018	J	0.14	0.15	0.078	0.698	4/7/22 19:29	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	4/7/22 19:29	BRF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 4 **-IA-1-03302022**
Sample ID: 22D0004-09
Sample Matrix: Indoor air
Sampled: 3/30/2022 13:18

Sample Description/Location:
Sub Description/Location:
Canister ID: 1951
Canister Size: 6 liter
Flow Controller ID: 3468
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -9.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	ND	0.035	0.027		ND	0.24	0.18	0.698	4/7/22 19:29	BRF
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.698	4/7/22 19:29	BRF
Toluene	0.37	0.035	0.020		1.4	0.13	0.075	0.698	4/7/22 19:29	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND UJ	0.26	0.18	0.698	4/7/22 19:29	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	4/7/22 19:29	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	4/7/22 19:29	BRF
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.698	4/7/22 19:29	BRF
Trichlorofluoromethane (Freon 11)	0.24	0.14	0.041		1.3	0.78	0.23	0.698	4/7/22 19:29	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.077	0.14	0.039	J	0.59	1.1	0.30	0.698	4/7/22 19:29	BRF
1,2,4-Trimethylbenzene	0.052	0.035	0.015		0.26	0.17	0.076	0.698	4/7/22 19:29	BRF
1,3,5-Trimethylbenzene	ND	0.035	0.018		ND	0.17	0.091	0.698	4/7/22 19:29	BRF
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.698	4/7/22 19:29	BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	4/7/22 19:29	BRF
m&p-Xylene	0.18	0.070	0.039		0.78	0.30	0.17	0.698	4/7/22 19:29	BRF
o-Xylene	0.079	0.035	0.018		0.34	0.15	0.078	0.698	4/7/22 19:29	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	102	70-130	4/7/22 19:29
4-Bromofluorobenzene (1)	96.6	70-130	4/8/22 18:04

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 4 **-OA-1-03302022**
Sample ID: 22D0004-10
Sample Matrix: Ambient Air
Sampled: 3/30/2022 13:30

Sample Description/Location:
Sub Description/Location:
Canister ID: 1071
Canister Size: 6 liter
Flow Controller ID: 3676
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -7.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	Results	RL	MDL	Flag/Qual	Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	1.5	1.4	0.84		3.5	3.3	2.0	0.698	4/7/22 20:05	BRF
Benzene	0.14	0.035	0.026		0.45	0.11	0.084	0.698	4/7/22 20:05	BRF
Benzyl chloride	ND	0.070	0.031		ND UJ	0.36	0.16	0.698	4/7/22 20:05	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	4/7/22 20:05	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	4/7/22 20:05	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	4/7/22 20:05	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	4/7/22 20:05	BRF
2-Butanone (MEK)	ND	1.4	0.37		ND	4.1	1.1	0.698	4/7/22 20:05	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	4/7/22 20:05	BRF
Carbon Tetrachloride	0.085	0.035	0.028		0.54	0.22	0.17	0.698	4/7/22 20:05	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	4/7/22 20:05	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	4/7/22 20:05	BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	4/7/22 20:05	BRF
Chloromethane	0.55	0.070	0.028		1.1	0.14	0.057	0.698	4/7/22 20:05	BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.079	0.698	4/7/22 20:05	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	4/7/22 20:05	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	4/7/22 20:05	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	4/7/22 20:05	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	4/7/22 20:05	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	4/7/22 20:05	BRF
Dichlorodifluoromethane (Freon 12)	0.50	0.035	0.034		2.5	0.17	0.17	0.698	4/7/22 20:05	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	4/7/22 20:05	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	4/7/22 20:05	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 20:05	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	4/7/22 20:05	BRF
trans-1,2-Dichloroethylene	0.40	0.035	0.027		1.6	0.14	0.11	0.698	4/7/22 20:05	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	4/7/22 20:05	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	4/7/22 20:05	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	4/7/22 20:05	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	4/7/22 20:05	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	4/7/22 20:05	BRF
Ethanol	1.4	1.4	0.62		2.7	2.6	1.2	0.698	4/7/22 20:05	BRF
Ethyl Acetate	ND	0.35	0.18		ND	1.3	0.64	0.698	4/7/22 20:05	BRF
Ethylbenzene	ND	0.035	0.020		ND	0.15	0.088	0.698	4/7/22 20:05	BRF
4-Ethyltoluene	ND	0.035	0.021		ND	0.17	0.11	0.698	4/7/22 20:05	BRF
Heptane	ND	0.035	0.022		ND	0.14	0.091	0.698	4/7/22 20:05	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	4/7/22 20:05	BRF
Hexane	0.33	1.4	0.18	J	1.2	4.9	0.64	0.698	4/7/22 20:05	BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.698	4/7/22 20:05	BRF
Isopropanol	0.53	1.4	0.24	J	1.3	3.4	0.59	0.698	4/7/22 20:05	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	4/7/22 20:05	BRF
Methylene Chloride	0.35	0.35	0.16		1.2	1.2	0.56	0.698	4/7/22 20:05	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	4/7/22 20:05	BRF
Naphthalene	ND	0.035	0.022		ND	0.18	0.12	0.698	4/7/22 20:05	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	4/7/22 20:05	BRF
Styrene	ND	0.035	0.018		ND	0.15	0.078	0.698	4/7/22 20:05	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	4/7/22 20:05	BRF

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 4 **-OA-1-03302022**
Sample ID: 22D0004-10
Sample Matrix: Ambient Air
Sampled: 3/30/2022 13:30

Sample Description/Location:
Sub Description/Location:
Canister ID: 1071
Canister Size: 6 liter
Flow Controller ID: 3676
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -7.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	ppbv MDL	Flag/Qual	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Dilution	Date/Time Analyzed	Analyst
Tetrachloroethylene	ND	0.035	0.027		ND	0.24	0.18	0.698	4/7/22 20:05	BRF
Tetrahydrofuran	0.093	0.35	0.057	J	0.27	1.0	0.17	0.698	4/7/22 20:05	BRF
Toluene	0.15	0.035	0.020		0.57	0.13	0.075	0.698	4/7/22 20:05	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND UJ	0.26	0.18	0.698	4/7/22 20:05	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	4/7/22 20:05	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	4/7/22 20:05	BRF
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.698	4/7/22 20:05	BRF
Trichlorofluoromethane (Freon 11)	0.25	0.14	0.041		1.4	0.78	0.23	0.698	4/7/22 20:05	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.096	0.14	0.039	J	0.73	1.1	0.30	0.698	4/7/22 20:05	BRF
1,2,4-Trimethylbenzene	ND	0.035	0.015		ND	0.17	0.076	0.698	4/7/22 20:05	BRF
1,3,5-Trimethylbenzene	ND	0.035	0.018		ND	0.17	0.091	0.698	4/7/22 20:05	BRF
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.698	4/7/22 20:05	BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	4/7/22 20:05	BRF
m&p-Xylene	0.061	0.070	0.039	J	0.26	0.30	0.17	0.698	4/7/22 20:05	BRF
o-Xylene	0.023	0.035	0.018	J	0.100	0.15	0.078	0.698	4/7/22 20:05	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	101	70-130	4/7/22 20:05

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 4 **-IA-2-03302022**
Sample ID: 22D0004-11
Sample Matrix: Indoor air
Sampled: 3/30/2022 13:24

Sample Description/Location:
Sub Description/Location:
Canister ID: 1626
Canister Size: 6 liter
Flow Controller ID: 3510
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -8.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	Results	RL	MDL	Flag/Qual	Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	2.9	1.4	0.84		6.9	3.3	2.0	0.698	4/7/22 20:40	BRF
Benzene	0.15	0.035	0.026		0.46	0.11	0.084	0.698	4/7/22 20:40	BRF
Benzyl chloride	ND	0.070	0.031		ND UJ	0.36	0.16	0.698	4/7/22 20:40	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	4/7/22 20:40	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	4/7/22 20:40	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	4/7/22 20:40	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	4/7/22 20:40	BRF
2-Butanone (MEK)	ND	1.4	0.37		ND	4.1	1.1	0.698	4/7/22 20:40	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	4/7/22 20:40	BRF
Carbon Tetrachloride	0.075	0.035	0.028		0.47	0.22	0.17	0.698	4/7/22 20:40	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	4/7/22 20:40	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	4/7/22 20:40	BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	4/7/22 20:40	BRF
Chloromethane	0.54	0.070	0.028		1.1	0.14	0.057	0.698	4/7/22 20:40	BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.079	0.698	4/7/22 20:40	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	4/7/22 20:40	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	4/7/22 20:40	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	4/7/22 20:40	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	4/7/22 20:40	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	4/7/22 20:40	BRF
Dichlorodifluoromethane (Freon 12)	0.49	0.035	0.034		2.4	0.17	0.17	0.698	4/7/22 20:40	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	4/7/22 20:40	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	4/7/22 20:40	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 20:40	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	4/7/22 20:40	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 20:40	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	4/7/22 20:40	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	4/7/22 20:40	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	4/7/22 20:40	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	4/7/22 20:40	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	4/7/22 20:40	BRF
Ethanol	44	8.0	3.5		82	15	6.6	4	4/8/22 18:33	BRF
Ethyl Acetate	0.18	0.35	0.18	J	0.65	1.3	0.64	0.698	4/7/22 20:40	BRF
Ethylbenzene	0.038	0.035	0.020		0.16	0.15	0.088	0.698	4/7/22 20:40	BRF
4-Ethyltoluene	ND	0.035	0.021		ND	0.17	0.11	0.698	4/7/22 20:40	BRF
Heptane	0.040	0.035	0.022		0.17	0.14	0.091	0.698	4/7/22 20:40	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	4/7/22 20:40	BRF
Hexane	0.35	1.4	0.18	J	1.2	4.9	0.64	0.698	4/7/22 20:40	BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.698	4/7/22 20:40	BRF
Isopropanol	0.75	1.4	0.24	J	1.9	3.4	0.59	0.698	4/7/22 20:40	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	4/7/22 20:40	BRF
Methylene Chloride	0.54	0.35	0.16		1.9	1.2	0.56	0.698	4/7/22 20:40	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	4/7/22 20:40	BRF
Naphthalene	ND	0.035	0.022		ND	0.18	0.12	0.698	4/7/22 20:40	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	4/7/22 20:40	BRF
Styrene	0.043	0.035	0.018		0.18	0.15	0.078	0.698	4/7/22 20:40	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	4/7/22 20:40	BRF

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 4 **-IA-2-03302022**
Sample ID: 22D0004-11
Sample Matrix: Indoor air
Sampled: 3/30/2022 13:24

Sample Description/Location:
Sub Description/Location:
Canister ID: 1626
Canister Size: 6 liter
Flow Controller ID: 3510
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -8.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	ND	0.035	0.027		ND	0.24	0.18	0.698	4/7/22 20:40	BRF
Tetrahydrofuran	0.11	0.35	0.057	J	0.32	1.0	0.17	0.698	4/7/22 20:40	BRF
Toluene	0.38	0.035	0.020		1.4	0.13	0.075	0.698	4/7/22 20:40	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND UJ	0.26	0.18	0.698	4/7/22 20:40	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	4/7/22 20:40	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	4/7/22 20:40	BRF
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.698	4/7/22 20:40	BRF
Trichlorofluoromethane (Freon 11)	0.25	0.14	0.041		1.4	0.78	0.23	0.698	4/7/22 20:40	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.080	0.14	0.039	J	0.61	1.1	0.30	0.698	4/7/22 20:40	BRF
1,2,4-Trimethylbenzene	0.028	0.035	0.015	J	0.14	0.17	0.076	0.698	4/7/22 20:40	BRF
1,3,5-Trimethylbenzene	ND	0.035	0.018		ND	0.17	0.091	0.698	4/7/22 20:40	BRF
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.698	4/7/22 20:40	BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	4/7/22 20:40	BRF
m&p-Xylene	0.11	0.070	0.039		0.48	0.30	0.17	0.698	4/7/22 20:40	BRF
o-Xylene	0.044	0.035	0.018		0.19	0.15	0.078	0.698	4/7/22 20:40	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	98.7	70-130	4/8/22 18:33
4-Bromofluorobenzene (1)	101	70-130	4/7/22 20:40

ALH 5/13/22

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 4 **-IA-3-03302022**
Sample ID: 22D0004-12
Sample Matrix: Indoor air
Sampled: 3/30/2022 13:25

Sample Description/Location:
Sub Description/Location:
Canister ID: 2154
Canister Size: 6 liter
Flow Controller ID: 3434
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -7.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	Results	RL	MDL	Flag/Qual	Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	5.0	1.4	0.84		12	3.3	2.0	0.698	4/7/22 21:15	BRF
Benzene	0.15	0.035	0.026		0.46	0.11	0.084	0.698	4/7/22 21:15	BRF
Benzyl chloride	ND	0.070	0.031		ND UJ	0.36	0.16	0.698	4/7/22 21:15	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	4/7/22 21:15	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	4/7/22 21:15	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	4/7/22 21:15	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	4/7/22 21:15	BRF
2-Butanone (MEK)	0.56	1.4	0.37	J	1.6	4.1	1.1	0.698	4/7/22 21:15	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	4/7/22 21:15	BRF
Carbon Tetrachloride	0.074	0.035	0.028		0.47	0.22	0.17	0.698	4/7/22 21:15	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	4/7/22 21:15	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	4/7/22 21:15	BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	4/7/22 21:15	BRF
Chloromethane	0.52	0.070	0.028		1.1	0.14	0.057	0.698	4/7/22 21:15	BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.079	0.698	4/7/22 21:15	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	4/7/22 21:15	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	4/7/22 21:15	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	4/7/22 21:15	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	4/7/22 21:15	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	4/7/22 21:15	BRF
Dichlorodifluoromethane (Freon 12)	0.50	0.035	0.034		2.5	0.17	0.17	0.698	4/7/22 21:15	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	4/7/22 21:15	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	4/7/22 21:15	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 21:15	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	4/7/22 21:15	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 21:15	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	4/7/22 21:15	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	4/7/22 21:15	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	4/7/22 21:15	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	4/7/22 21:15	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	4/7/22 21:15	BRF
Ethanol	13	1.4	0.62		24	2.6	1.2	0.698	4/7/22 21:15	BRF
Ethyl Acetate	ND	0.35	0.18		ND	1.3	0.64	0.698	4/7/22 21:15	BRF
Ethylbenzene	0.029	0.035	0.020	J	0.13	0.15	0.088	0.698	4/7/22 21:15	BRF
4-Ethyltoluene	ND	0.035	0.021		ND	0.17	0.11	0.698	4/7/22 21:15	BRF
Heptane	0.038	0.035	0.022		0.16	0.14	0.091	0.698	4/7/22 21:15	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	4/7/22 21:15	BRF
Hexane	0.34	1.4	0.18	J	1.2	4.9	0.64	0.698	4/7/22 21:15	BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.698	4/7/22 21:15	BRF
Isopropanol	0.64	1.4	0.24	J	1.6	3.4	0.59	0.698	4/7/22 21:15	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	4/7/22 21:15	BRF
Methylene Chloride	0.44	0.35	0.16		1.5	1.2	0.56	0.698	4/7/22 21:15	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	4/7/22 21:15	BRF
Naphthalene	ND	0.035	0.022		ND	0.18	0.12	0.698	4/7/22 21:15	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	4/7/22 21:15	BRF
Styrene	ND	0.035	0.018		ND	0.15	0.078	0.698	4/7/22 21:15	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	4/7/22 21:15	BRF

ALH 5/13/22

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 4 **-IA-3-03302022**
Sample ID: 22D0004-12
Sample Matrix: Indoor air
Sampled: 3/30/2022 13:25

Sample Description/Location:
Sub Description/Location:
Canister ID: 2154
Canister Size: 6 liter
Flow Controller ID: 3434
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -7.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	ppbv MDL	Flag/Qual	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Dilution	Date/Time Analyzed	Analyst
Tetrachloroethylene	ND	0.035	0.027		ND	0.24	0.18	0.698	4/7/22 21:15	BRF
Tetrahydrofuran	0.096	0.35	0.057	J	0.28	1.0	0.17	0.698	4/7/22 21:15	BRF
Toluene	0.29	0.035	0.020		1.1	0.13	0.075	0.698	4/7/22 21:15	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND UJ	0.26	0.18	0.698	4/7/22 21:15	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	4/7/22 21:15	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	4/7/22 21:15	BRF
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.698	4/7/22 21:15	BRF
Trichlorofluoromethane (Freon 11)	0.24	0.14	0.041		1.3	0.78	0.23	0.698	4/7/22 21:15	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.063	0.14	0.039	J	0.49	1.1	0.30	0.698	4/7/22 21:15	BRF
1,2,4-Trimethylbenzene	ND	0.035	0.015		ND	0.17	0.076	0.698	4/7/22 21:15	BRF
1,3,5-Trimethylbenzene	ND	0.035	0.018		ND	0.17	0.091	0.698	4/7/22 21:15	BRF
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.698	4/7/22 21:15	BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	4/7/22 21:15	BRF
m&p-Xylene	0.092	0.070	0.039		0.40	0.30	0.17	0.698	4/7/22 21:15	BRF
o-Xylene	0.031	0.035	0.018	J	0.14	0.15	0.078	0.698	4/7/22 21:15	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	101	70-130	4/7/22 21:15

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 4 **-IA-4-03302022**
Sample ID: 22D0004-13
Sample Matrix: Indoor air
Sampled: 3/30/2022 13:26

Sample Description/Location:
Sub Description/Location:
Canister ID: 2210
Canister Size: 6 liter
Flow Controller ID: 3058
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -6
Receipt Vacuum(in Hg): -5.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

		ppbv				ug/m3			Date/Time	
Analyte	Results	RL	MDL	Flag/Qual	Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	4.3	1.4	0.84		10	3.3	2.0	0.698	4/7/22 21:50	BRF
Benzene	0.20	0.035	0.026		0.63	0.11	0.084	0.698	4/7/22 21:50	BRF
Benzyl chloride	ND	0.070	0.031		ND UJ	0.36	0.16	0.698	4/7/22 21:50	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	4/7/22 21:50	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	4/7/22 21:50	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	4/7/22 21:50	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	4/7/22 21:50	BRF
2-Butanone (MEK)	0.48	1.4	0.37	J	1.4	4.1	1.1	0.698	4/7/22 21:50	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	4/7/22 21:50	BRF
Carbon Tetrachloride	0.073	0.035	0.028		0.46	0.22	0.17	0.698	4/7/22 21:50	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	4/7/22 21:50	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	4/7/22 21:50	BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	4/7/22 21:50	BRF
Chloromethane	0.46	0.070	0.028		0.96	0.14	0.057	0.698	4/7/22 21:50	BRF
Cyclohexane	0.074	0.035	0.023		0.25	0.12	0.079	0.698	4/7/22 21:50	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	4/7/22 21:50	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	4/7/22 21:50	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	4/7/22 21:50	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	4/7/22 21:50	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	4/7/22 21:50	BRF
Dichlorodifluoromethane (Freon 12)	0.50	0.035	0.034		2.5	0.17	0.17	0.698	4/7/22 21:50	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	4/7/22 21:50	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	4/7/22 21:50	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 21:50	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	4/7/22 21:50	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 21:50	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	4/7/22 21:50	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	4/7/22 21:50	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	4/7/22 21:50	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	4/7/22 21:50	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	4/7/22 21:50	BRF
Ethanol	4.2	1.4	0.62		8.0	2.6	1.2	0.698	4/7/22 21:50	BRF
Ethyl Acetate	1.1	0.35	0.18		4.1	1.3	0.64	0.698	4/7/22 21:50	BRF
Ethylbenzene	0.079	0.035	0.020		0.34	0.15	0.088	0.698	4/7/22 21:50	BRF
4-Ethyltoluene	ND	0.035	0.021		ND	0.17	0.11	0.698	4/7/22 21:50	BRF
Heptane	0.12	0.035	0.022		0.47	0.14	0.091	0.698	4/7/22 21:50	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	4/7/22 21:50	BRF
Hexane	0.74	1.4	0.18	J	2.6	4.9	0.64	0.698	4/7/22 21:50	BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.698	4/7/22 21:50	BRF
Isopropanol	1.4	1.4	0.24	J	3.4	3.4	0.59	0.698	4/7/22 21:50	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	4/7/22 21:50	BRF
Methylene Chloride	1.1	0.35	0.16		3.8	1.2	0.56	0.698	4/7/22 21:50	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	4/7/22 21:50	BRF
Naphthalene	ND	0.035	0.022		ND	0.18	0.12	0.698	4/7/22 21:50	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	4/7/22 21:50	BRF
Styrene	0.030	0.035	0.018	J	0.13	0.15	0.078	0.698	4/7/22 21:50	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	4/7/22 21:50	BRF

ALH 5/13/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 4 **-IA-4-03302022**
Sample ID: 22D0004-13
Sample Matrix: Indoor air
Sampled: 3/30/2022 13:26

Sample Description/Location:
Sub Description/Location:
Canister ID: 2210
Canister Size: 6 liter
Flow Controller ID: 3058
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -6
Receipt Vacuum(in Hg): -5.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	0.060	0.035	0.027		0.41	0.24	0.18	0.698	4/7/22 21:50	BRF
Tetrahydrofuran	0.16	0.35	0.057	J	0.46	1.0	0.17	0.698	4/7/22 21:50	BRF
Toluene	1.3	0.035	0.020		4.8	0.13	0.075	0.698	4/7/22 21:50	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND UJ	0.26	0.18	0.698	4/7/22 21:50	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	4/7/22 21:50	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	4/7/22 21:50	BRF
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.698	4/7/22 21:50	BRF
Trichlorofluoromethane (Freon 11)	0.24	0.14	0.041		1.4	0.78	0.23	0.698	4/7/22 21:50	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.079	0.14	0.039	J	0.60	1.1	0.30	0.698	4/7/22 21:50	BRF
1,2,4-Trimethylbenzene	0.040	0.035	0.015		0.20	0.17	0.076	0.698	4/7/22 21:50	BRF
1,3,5-Trimethylbenzene	ND	0.035	0.018		ND	0.17	0.091	0.698	4/7/22 21:50	BRF
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.698	4/7/22 21:50	BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	4/7/22 21:50	BRF
m&p-Xylene	0.23	0.070	0.039		1.0	0.30	0.17	0.698	4/7/22 21:50	BRF
o-Xylene	0.083	0.035	0.018		0.36	0.15	0.078	0.698	4/7/22 21:50	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	103	70-130	4/7/22 21:50

ALH 5/13/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 5 **-SS-1-03302022**
Sample ID: 22D0004-14
Sample Matrix: Sub Slab
Sampled: 3/30/2022 15:25

Sample Description/Location:
Sub Description/Location:
Canister ID: 2205
Canister Size: 6 liter
Flow Controller ID: 3351
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -13
Receipt Vacuum(in Hg): -11.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Sample Flags: RL-11

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	21	11	6.4		50	25	15	5.33	4/12/22 0:21	BRF
Benzene	0.30	0.27	0.20		0.97	0.85	0.65	5.33	4/12/22 0:21	BRF
Benzyl chloride	ND	0.27	0.24		ND	1.4	1.2	5.33	4/12/22 0:21	BRF
Bromodichloromethane	0.19	0.27	0.19	J	1.3	1.8	1.3	5.33	4/12/22 0:21	BRF
Bromoform	ND	0.27	0.18		ND	2.8	1.9	5.33	4/12/22 0:21	BRF
Bromomethane	ND	0.27	0.22		ND	1.0	0.84	5.33	4/12/22 0:21	BRF
1,3-Butadiene	ND	0.27	0.22		ND	0.59	0.49	5.33	4/12/22 0:21	BRF
2-Butanone (MEK)	ND	11	2.8		ND	31	8.4	5.33	4/12/22 0:21	BRF
Carbon Disulfide	0.58	2.7	0.25	J	1.8	8.3	0.77	5.33	4/12/22 0:21	BRF
Carbon Tetrachloride	ND	0.27	0.21		ND	1.7	1.3	5.33	4/12/22 0:21	BRF
Chlorobenzene	ND	0.27	0.18		ND	1.2	0.82	5.33	4/12/22 0:21	BRF
Chloroethane	ND	0.27	0.19		ND	0.70	0.51	5.33	4/12/22 0:21	BRF
Chloroform	12	0.27	0.25		56	1.3	1.2	5.33	4/12/22 0:21	BRF
Chloromethane	ND	0.53	0.21		ND	1.1	0.44	5.33	4/12/22 0:21	BRF
Cyclohexane	ND	0.27	0.18		ND	0.92	0.61	5.33	4/12/22 0:21	BRF
Dibromochloromethane	ND	0.27	0.18		ND	2.3	1.5	5.33	4/12/22 0:21	BRF
1,2-Dibromoethane (EDB)	ND	0.27	0.16		ND	2.0	1.2	5.33	4/12/22 0:21	BRF
1,2-Dichlorobenzene	ND	0.27	0.15		ND	1.6	0.92	5.33	4/12/22 0:21	BRF
1,3-Dichlorobenzene	ND	0.27	0.15		ND	1.6	0.89	5.33	4/12/22 0:21	BRF
1,4-Dichlorobenzene	ND	0.27	0.17		ND	1.6	1.0	5.33	4/12/22 0:21	BRF
Dichlorodifluoromethane (Freon 12)	0.74	0.27	0.26		3.6	1.3	1.3	5.33	4/12/22 0:21	BRF
1,1-Dichloroethane	ND	0.27	0.23		ND	1.1	0.94	5.33	4/12/22 0:21	BRF
1,2-Dichloroethane	ND	0.27	0.24		ND	1.1	0.98	5.33	4/12/22 0:21	BRF
1,1-Dichloroethylene	ND	0.27	0.20		ND	1.1	0.81	5.33	4/12/22 0:21	BRF
cis-1,2-Dichloroethylene	ND	0.27	0.19		ND	1.1	0.77	5.33	4/12/22 0:21	BRF
trans-1,2-Dichloroethylene	ND	0.27	0.21		ND	1.1	0.83	5.33	4/12/22 0:21	BRF
1,2-Dichloropropane	ND	0.27	0.14		ND	1.2	0.67	5.33	4/12/22 0:21	BRF
cis-1,3-Dichloropropene	ND	0.27	0.14		ND	1.2	0.63	5.33	4/12/22 0:21	BRF
trans-1,3-Dichloropropene	ND	0.27	0.14		ND	1.2	0.62	5.33	4/12/22 0:21	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.27	0.26		ND	1.9	1.8	5.33	4/12/22 0:21	BRF
1,4-Dioxane	ND	2.7	0.22		ND	9.6	0.80	5.33	4/12/22 0:21	BRF
Ethanol	7.3	11	4.7	J	14	20	8.9	5.33	4/12/22 0:21	BRF
Ethyl Acetate	ND	2.7	1.3		ND	9.6	4.9	5.33	4/12/22 0:21	BRF
Ethylbenzene	1.1	0.27	0.16		4.8	1.2	0.68	5.33	4/12/22 0:21	BRF
4-Ethyltoluene	0.55	0.27	0.16		2.7	1.3	0.80	5.33	4/12/22 0:21	BRF
Heptane	1.1	0.27	0.17		4.6	1.1	0.70	5.33	4/12/22 0:21	BRF
Hexachlorobutadiene	ND	0.27	0.22		ND	2.8	2.3	5.33	4/12/22 0:21	BRF
Hexane	ND	11	1.4		ND	38	4.9	5.33	4/12/22 0:21	BRF
2-Hexanone (MBK)	ND	0.27	0.13		ND	1.1	0.55	5.33	4/12/22 0:21	BRF
Isopropanol	ND	11	1.8		ND	26	4.5	5.33	4/12/22 0:21	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.27	0.21		ND	0.96	0.74	5.33	4/12/22 0:21	BRF
Methylene Chloride	ND	2.7	1.2		ND	9.3	4.3	5.33	4/12/22 0:21	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.27	0.14		ND	1.1	0.56	5.33	4/12/22 0:21	BRF
Naphthalene	ND	0.27	0.17		ND	1.4	0.89	5.33	4/12/22 0:21	BRF
Propene	ND	11	2.3		ND	18	4.0	5.33	4/12/22 0:21	BRF
Styrene	ND	0.27	0.14		ND	1.1	0.60	5.33	4/12/22 0:21	BRF
1,1,2,2-Tetrachloroethane	ND	0.27	0.14		ND	1.8	0.99	5.33	4/12/22 0:21	BRF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 5 **-SS-1-03302022**
Sample ID: 22D0004-14
Sample Matrix: Sub Slab
Sampled: 3/30/2022 15:25

Sample Description/Location:
Sub Description/Location:
Canister ID: 2205
Canister Size: 6 liter
Flow Controller ID: 3351
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -13
Receipt Vacuum(in Hg): -11.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Sample Flags: RL-11

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	160	0.27	0.20		1100	1.8	1.4	5.33	4/12/22 0:21	BRF
Tetrahydrofuran	ND	2.7	0.44		ND	7.9	1.3	5.33	4/12/22 0:21	BRF
Toluene	3.7	0.27	0.15		14	1.0	0.57	5.33	4/12/22 0:21	BRF
1,2,4-Trichlorobenzene	ND	0.27	0.19		ND	2.0	1.4	5.33	4/12/22 0:21	BRF
1,1,1-Trichloroethane	ND	0.27	0.21		ND	1.5	1.1	5.33	4/12/22 0:21	BRF
1,1,2-Trichloroethane	ND	0.27	0.19		ND	1.5	1.0	5.33	4/12/22 0:21	BRF
Trichloroethylene	ND	0.27	0.18		ND	1.4	0.97	5.33	4/12/22 0:21	BRF
Trichlorofluoromethane (Freon 11)	0.33	1.1	0.32	J	1.9	6.0	1.8	5.33	4/12/22 0:21	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.1	0.30		ND	8.2	2.3	5.33	4/12/22 0:21	BRF
1,2,4-Trimethylbenzene	2.6	0.27	0.12		13	1.3	0.58	5.33	4/12/22 0:21	BRF
1,3,5-Trimethylbenzene	0.70	0.27	0.14		3.4	1.3	0.69	5.33	4/12/22 0:21	BRF
Vinyl Acetate	ND	5.3	1.4		ND	19	5.0	5.33	4/12/22 0:21	BRF
Vinyl Chloride	ND	0.27	0.24		ND	0.68	0.61	5.33	4/12/22 0:21	BRF
m&p-Xylene	5.5	0.53	0.30		24	2.3	1.3	5.33	4/12/22 0:21	BRF
o-Xylene	1.9	0.27	0.14		8.3	1.2	0.59	5.33	4/12/22 0:21	BRF

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	93.9	70-130	4/12/22 0:21	

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 5 **-IA-1-03302022**
Sample ID: 22D0004-15
Sample Matrix: Indoor air
Sampled: 3/30/2022 15:26

Sample Description/Location:
Sub Description/Location:
Canister ID: 1839
Canister Size: 6 liter
Flow Controller ID: 3086
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -28.5
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -7.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

		ppbv				ug/m3			Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	71	8.0	4.8		170	19	11	4	4/8/22 19:01	BRF
Benzene	3.8	0.035	0.026		12	0.11	0.084	0.698	4/7/22 22:25	BRF
Benzyl chloride	ND	0.070	0.031		ND UJ	0.36	0.16	0.698	4/7/22 22:25	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	4/7/22 22:25	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	4/7/22 22:25	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	4/7/22 22:25	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	4/7/22 22:25	BRF
2-Butanone (MEK)	1.6	1.4	0.37		4.6	4.1	1.1	0.698	4/7/22 22:25	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	4/7/22 22:25	BRF
Carbon Tetrachloride	0.068	0.035	0.028		0.43	0.22	0.17	0.698	4/7/22 22:25	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	4/7/22 22:25	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	4/7/22 22:25	BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	4/7/22 22:25	BRF
Chloromethane	0.58	0.070	0.028		1.2	0.14	0.057	0.698	4/7/22 22:25	BRF
Cyclohexane	5.2	0.035	0.023		18	0.12	0.079	0.698	4/7/22 22:25	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	4/7/22 22:25	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	4/7/22 22:25	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	4/7/22 22:25	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	4/7/22 22:25	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	4/7/22 22:25	BRF
Dichlorodifluoromethane (Freon 12)	0.49	0.035	0.034		2.4	0.17	0.17	0.698	4/7/22 22:25	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	4/7/22 22:25	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	4/7/22 22:25	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 22:25	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	4/7/22 22:25	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	4/7/22 22:25	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	4/7/22 22:25	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	4/7/22 22:25	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	4/7/22 22:25	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	4/7/22 22:25	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	4/7/22 22:25	BRF
Ethanol	74	8.0	3.5		140	15	6.6	4	4/8/22 19:01	BRF
Ethyl Acetate	1.3	0.35	0.18		4.8	1.3	0.64	0.698	4/7/22 22:25	BRF
Ethylbenzene	2.9	0.035	0.020		13	0.15	0.088	0.698	4/7/22 22:25	BRF
4-Ethyltoluene	1.1	0.035	0.021		5.2	0.17	0.11	0.698	4/7/22 22:25	BRF
Heptane	7.0	0.035	0.022		29	0.14	0.091	0.698	4/7/22 22:25	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	4/7/22 22:25	BRF
Hexane	13	1.4	0.18		46	4.9	0.64	0.698	4/7/22 22:25	BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.698	4/7/22 22:25	BRF
Isopropanol	1.7	1.4	0.24		4.2	3.4	0.59	0.698	4/7/22 22:25	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	4/7/22 22:25	BRF
Methylene Chloride	0.68	0.35	0.16		2.3	1.2	0.56	0.698	4/7/22 22:25	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	4/7/22 22:25	BRF
Naphthalene	0.45	0.035	0.022		2.3	0.18	0.12	0.698	4/7/22 22:25	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	4/7/22 22:25	BRF
Styrene	ND	0.035	0.018		ND	0.15	0.078	0.698	4/7/22 22:25	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	4/7/22 22:25	BRF

ALH 5/13/22

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ANALYTICAL RESULTS

Project Location: NY
Date Received: 3/31/2022
Field Sample #: Structure 5 **-IA-1-03302022**
Sample ID: 22D0004-15
Sample Matrix: Indoor air
Sampled: 3/30/2022 15:26

Sample Description/Location:
Sub Description/Location:
Canister ID: 1839
Canister Size: 6 liter
Flow Controller ID: 3086
Sample Type: 24 hr

Work Order: 22D0004
Initial Vacuum(in Hg): -28.5
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -7.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	7.1	0.035	0.027		48	0.24	0.18	0.698	4/7/22 22:25	BRF
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.698	4/7/22 22:25	BRF
Toluene	20	0.035	0.020		75	0.13	0.075	0.698	4/7/22 22:25	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND UJ	0.26	0.18	0.698	4/7/22 22:25	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	4/7/22 22:25	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	4/7/22 22:25	BRF
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.698	4/7/22 22:25	BRF
Trichlorofluoromethane (Freon 11)	0.35	0.14	0.041		2.0	0.78	0.23	0.698	4/7/22 22:25	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.083	0.14	0.039	J	0.64	1.1	0.30	0.698	4/7/22 22:25	BRF
1,2,4-Trimethylbenzene	3.7	0.035	0.015		18	0.17	0.076	0.698	4/7/22 22:25	BRF
1,3,5-Trimethylbenzene	0.94	0.035	0.018		4.6	0.17	0.091	0.698	4/7/22 22:25	BRF
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.698	4/7/22 22:25	BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	4/7/22 22:25	BRF
m&p-Xylene	9.9	0.070	0.039		43	0.30	0.17	0.698	4/7/22 22:25	BRF
o-Xylene	3.8	0.035	0.018		17	0.15	0.078	0.698	4/7/22 22:25	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	105	70-130	4/7/22 22:25
4-Bromofluorobenzene (1)	102	70-130	4/8/22 19:01

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Appendix B

Indoor Air Quality Questionnaire and Building Inventory - Redacted

OSR – 3

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Chris French Date/Time Prepared 3/29/22 0820

Preparer's Affiliation AECOM Phone No. 518-860-3855

Purpose of Investigation Site Sampling

1. OCCUPANT:

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: _____ Structure 2

County: Fulton

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location 3 Age of Occupants 18-54

2. OWNER OR LANDLORD: (Check if same as occupant ✓)

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

(Residential)	School	Commercial/Multi-use
Industrial	Church	Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	~~Split Level~~	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	~~Apartment House~~	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) _____

Does it include residences (i.e., multi-use)? Y / N If yes, how many? ~~10~~

Other characteristics:

Number of floors 2 Building age 70

Is the building insulated? (Y) / N How air tight? Tight / (Average) / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

None other than through door leading to basement

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	concrete	stone	brick
b. Basement type:	full	crawlspace	slab	other _____
c. Basement floor:	concrete	dirt	stone	other _____
d. Basement floor:	uncovered	covered	covered with _____	
e. Concrete floor:	unsealed	sealed	sealed with _____	
f. Foundation walls:	poured	block	stone	other _____
g. Foundation walls:	unsealed	sealed	sealed with Concrete	
h. The basement is:	wet	damp	dry	moldy
i. The basement is:	finished	unfinished	partially finished	
j. Sump present?	Y / N			
k. Water in sump?	Y / N	not applicable		

Basement/Lowest level depth below grade: 4 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Cracks in foundation floor and walls

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard	
Space Heaters	Steam radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other Pellet Stove

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: furnace (oil)

Boiler/furnace located in: Basement Outdoors Main Floor Other _____

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? Y / (N)

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

N/A

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom (Almost Never)

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	Utility / Storage
1st Floor	Living Space
2nd Floor	
3rd Floor	
4th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y / (N)

b. Does the garage have a separate heating unit? Y / N / NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N / NA
Please specify_____

d. Has the building ever had a fire? (Y) / N When?_____

e. Is a kerosene or unvented gas space heater present? Y / N Where? Mid 1970's

f. Is there a workshop or hobby/craft area? Y / (N) Where & Type?_____

g. Is there smoking in the building? (Y) / N How frequently? Half a pack a day

h. Have cleaning products been used recently? Y / (N) When & Type?_____

i. Have cosmetic products been used recently? Y / (N) When & Type?_____

j. Has painting/staining been done in the last 6 months? Y (N) Where & When? _____

k. Is there new carpet, drapes or other textiles? Y (N) Where & When? _____

l. Have air fresheners been used recently? Y (N) When & Type? _____

m. Is there a kitchen exhaust fan? (Y) / N If yes, where vented? Side of house

n. Is there a bathroom exhaust fan? (Y) N If yes, where vented? through roof

o. Is there a clothes dryer? (Y) N If yes, is it vented outside? (Y) / N

p. Has there been a pesticide application? Y / (N) When & Type? _____

Are there odors in the building? (Y) / N
If yes, please describe: Cigarettes

Do any of the building occupants use solvents at work? Y (N)
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)
Yes, use dry-cleaning infrequently (monthly or less)
Yes, work at a dry-cleaning service
(No)
Unknown

Is there a radon mitigation system for the building/structure? Y (N) Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

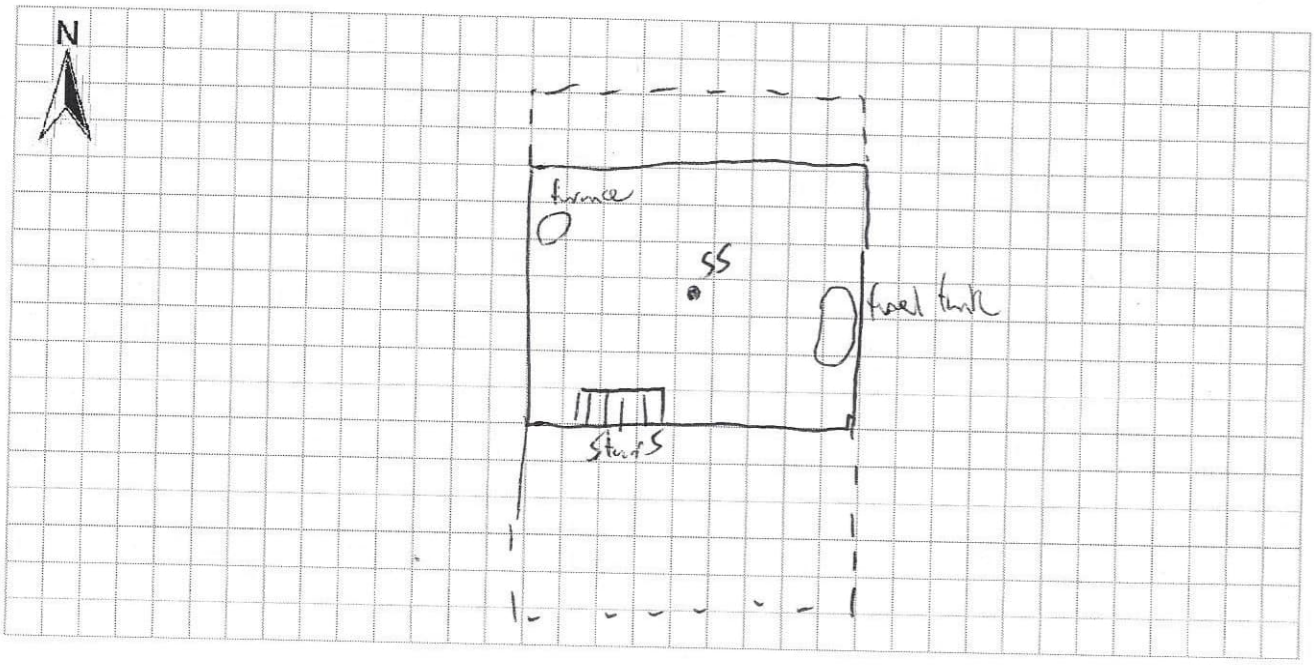
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

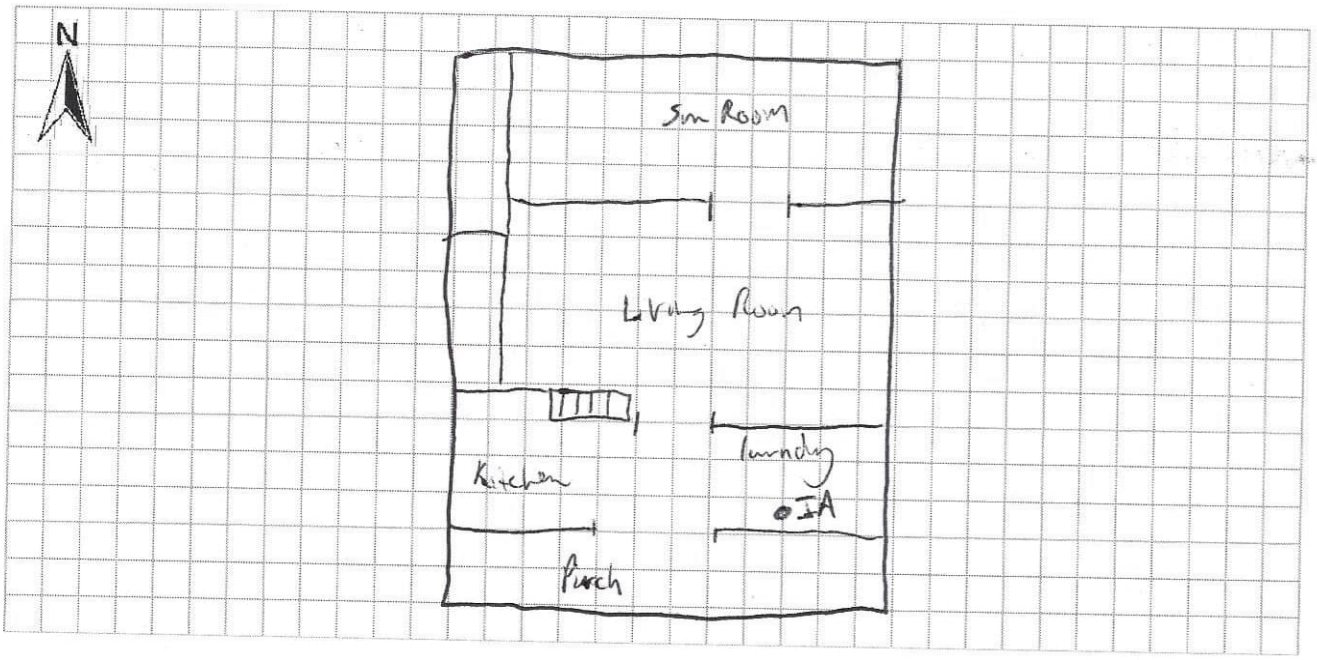
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



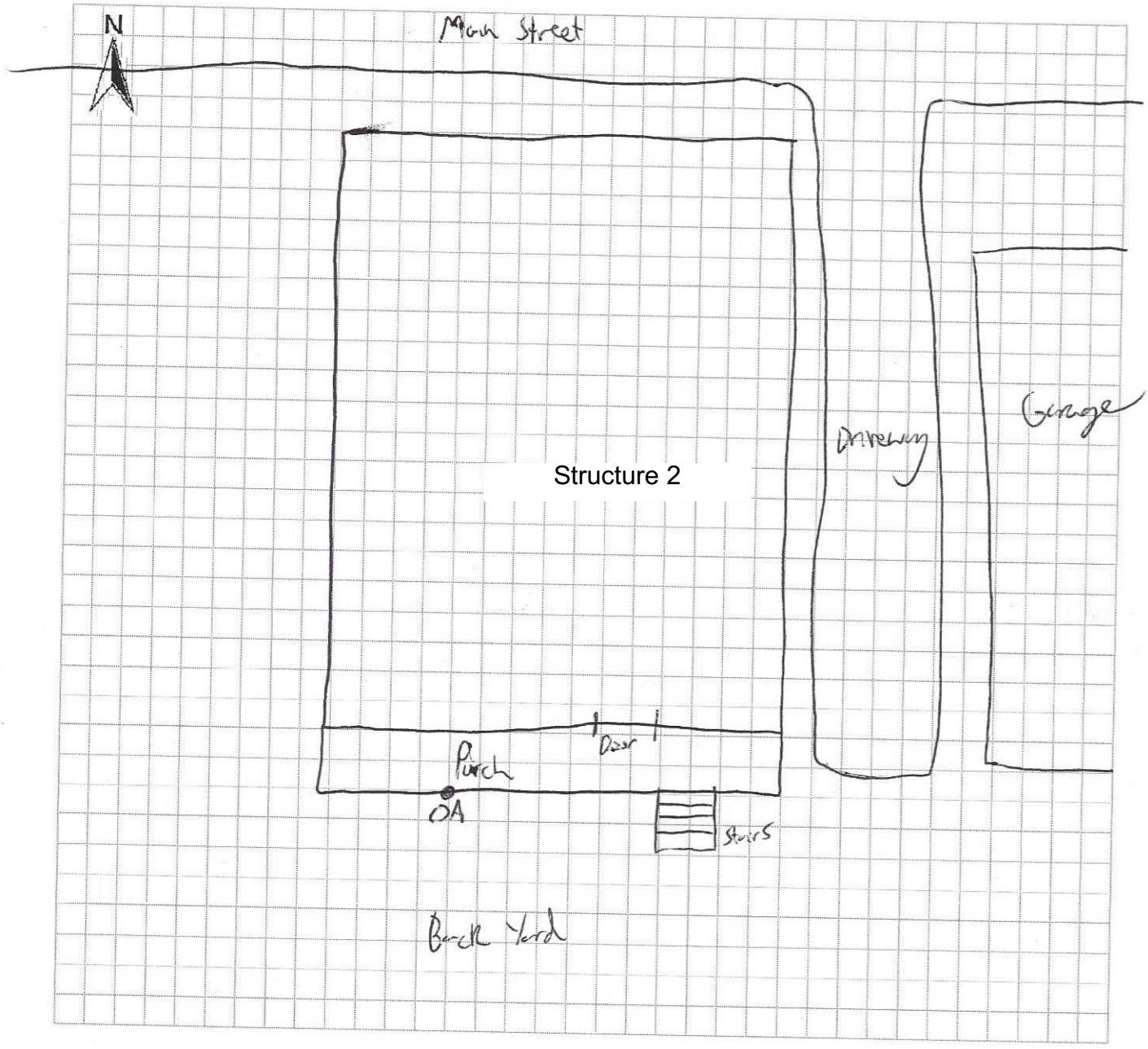
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: RKI GX-6000

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
1st floor	Hoover expert Clean	1 gal	U		1.2 ppm	N
	D-con Mice	4 oz				
	Dymon Armor clad	12 oz				
	Eagle one Mono Urx	12 oz				
	PB Blaster	12 oz				
	Great Value fume free oven cleaner	16 oz				
	~~Test Area~~ Color Place Spray Paint	12 oz				
	Oatey PVC cement	4 oz				
	Oatey Primer	4 oz				
	Min Wax Polyurethane	8 oz				
	Sentry max Deet	4 oz				
	BWD engine management	5 oz				
	Sno Seal	4 oz				
Basement						
	Clean Strip Stripper	1 gal			2.7 ppm	
	Imperial Gasket adhesive	4 oz				
	Henry 256	10 oz				

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Chris French Date/Time Prepared 3/29/22 1030

Preparer's Affiliation AECOM Phone No. 518-860-3855

Purpose of Investigation SVI Sampling

1. OCCUPANT:

Interviewed: (Y) / N

Last Name: _____ First Name: _____

Address: _____ Structure 3

County: Fulton

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location Varies Age of Occupants Varies

2. OWNER OR LANDLORD: (Check if same as occupant ✓)

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

(Residential) School (Commercial/Multi-use)
Industrial Church Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: Inn

If multiple units, how many? 12

If the property is commercial, type?

Business Type(s) Hotel Restaurant

Does it include residences (i.e., multi-use)? (Y) / N If yes, how many? 12

Other characteristics:

Number of floors 3 Building age 165

Is the building insulated? (Y) / N How air tight? Tight / (Average) / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

Stair ways no vents

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	concrete	stone	brick
b. Basement type:	full	crawlspace	slab	other _____
c. Basement floor:	concrete	dirt	stone	other _____
d. Basement floor:	uncovered	covered	covered with _____	
e. Concrete floor:	unsealed	sealed	sealed with _____	
f. Foundation walls:	poured	block	stone	other _____
g. Foundation walls:	unsealed	sealed	sealed with Concrete	
h. The basement is:	wet	damp	dry	moldy
i. The basement is:	finished	unfinished	partially finished	
j. Sump present?	Y / N			
k. Water in sump?	Y / N / not applicable			

Basement/Lowest level depth below grade: 6 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

open Soil trench, cracks in floor

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of ~~heating~~ system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard	
Space Heaters	Steam radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

Natural Gas	~~Fuel~~ Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Propane

Boiler/furnace located in:	Basement	Outdoors	Main Floor	Other _____
Air conditioning:	Central Air	Window units	Open Windows	None

Are there air distribution ducts present? (Y) / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom (Almost Never)

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	Storage
1st Floor	Restaurant Bar Banquet Hall
2nd Floor	~~Apartments~~ Hotel Rooms
3rd Floor	Storage
4th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y / (N)

b. Does the garage have a separate heating unit? Y / N / (NA)

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N / (NA) Please specify _____

d. Has the building ever had a fire? Y / (N) When? _____

e. Is a kerosene or unvented gas space heater present? Y / (N) Where? _____

f. Is there a workshop or hobby/craft area? Y / (N) Where & Type? _____

g. Is there smoking in the building? Y / (N) How frequently? _____

h. Have cleaning products been used recently? (Y) / N When & Type? Bleach

i. Have cosmetic products been used recently? Y / (N) When & Type? _____

j. Has painting/staining been done in the last 6 months? Y (N) Where & When? _____

k. Is there new carpet, drapes or other textiles? Y (N) Where & When? _____

l. Have air fresheners been used recently? Y (N) When & Type? _____

m. Is there a kitchen exhaust fan? (Y) / N If yes, where vented? back Side of Building

n. Is there a bathroom exhaust fan? (Y) / N If yes, where vented? Side of Building

o. Is there a clothes dryer? (Y) N If yes, is it vented outside? (Y) / N

p. Has there been a pesticide application? Y (N) When & Type? _____

Are there odors in the building? Y (N)
If yes, please describe: No

Do any of the building occupants use solvents at work? Y (N)
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)
Yes, use dry-cleaning infrequently (monthly or less)
Yes, work at a dry-cleaning service
(No)
Unknown

Is there a radon mitigation system for the building/structure? Y (N) Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

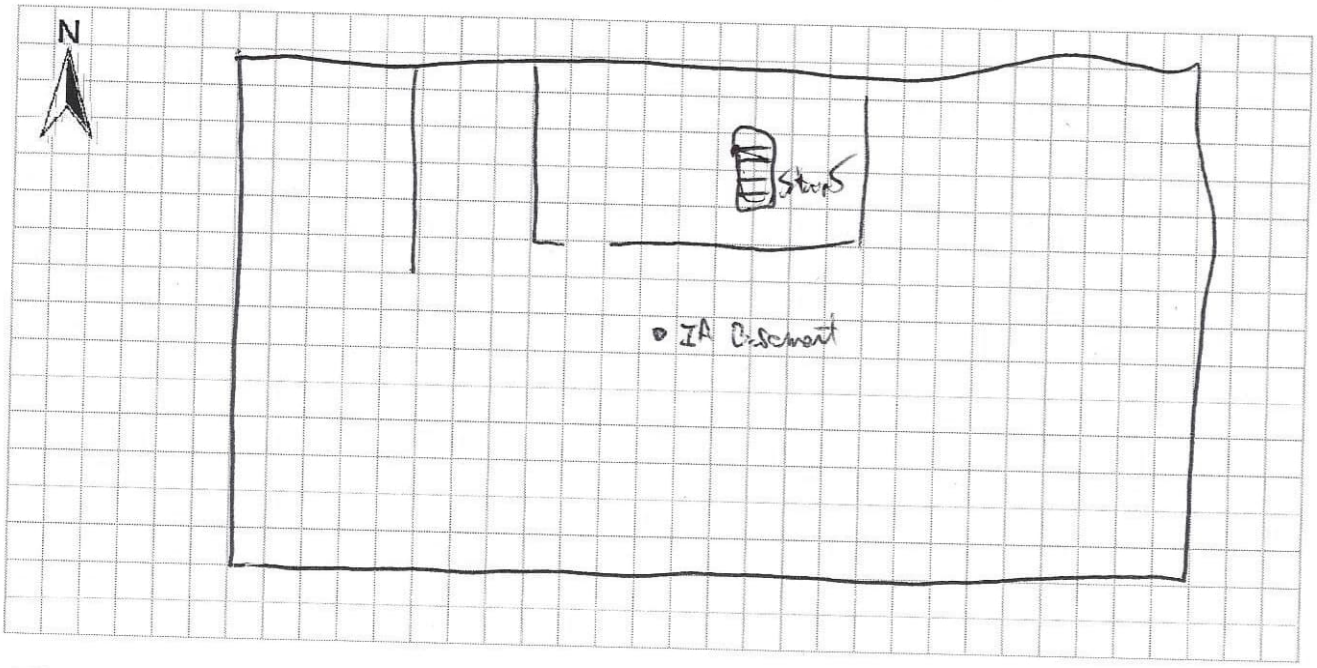
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

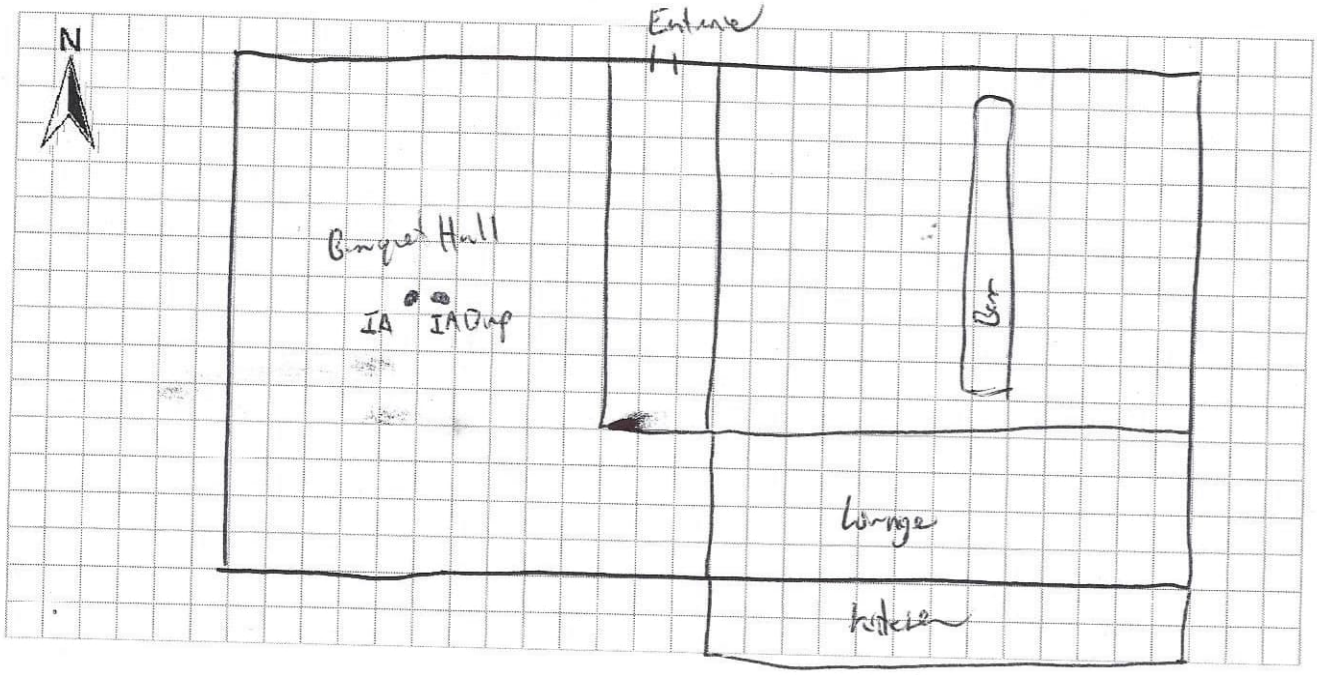
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



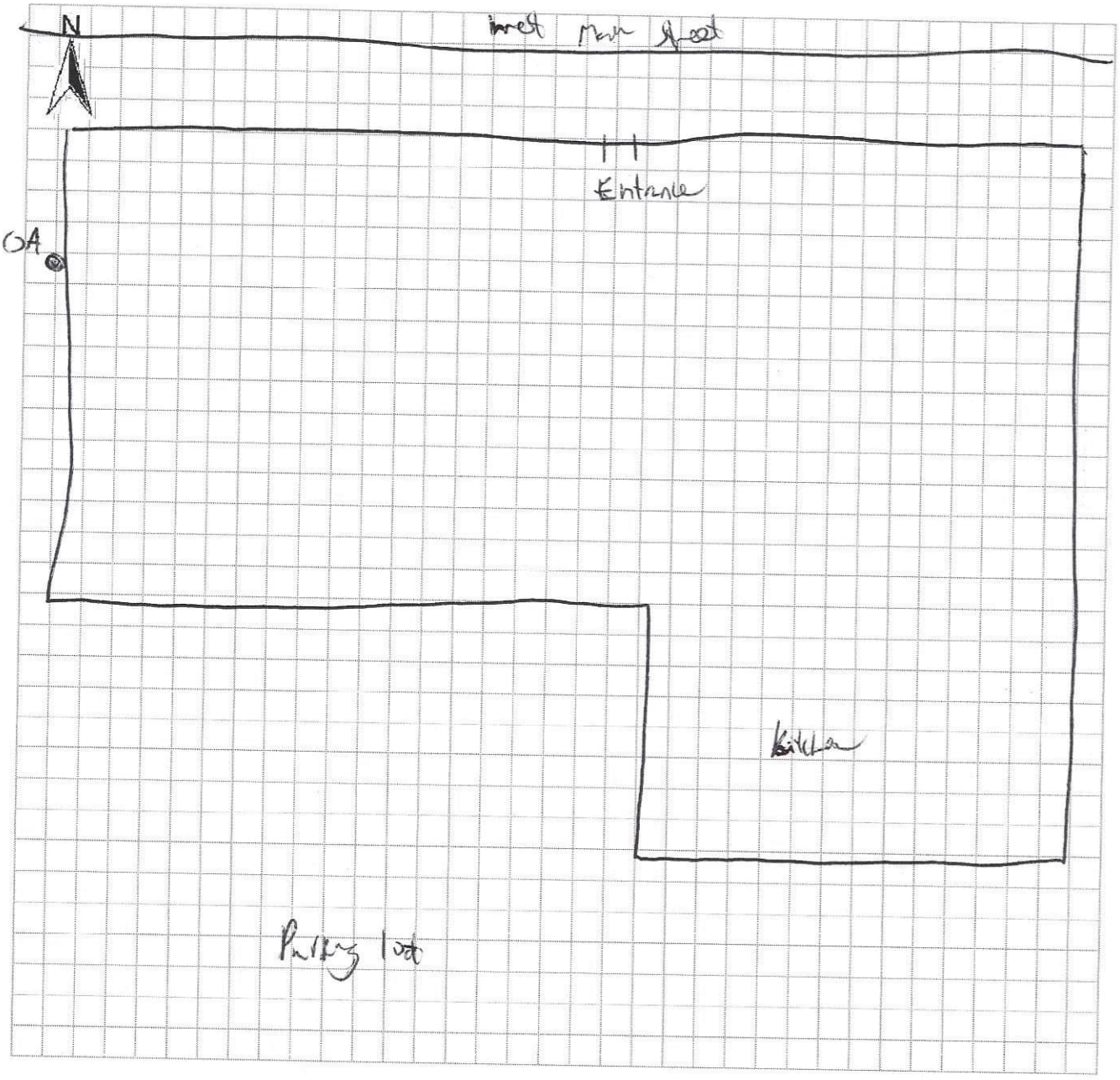
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: RKI GX-6000

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
Basement	WD40	1 gal	O		1.5 PPM	
	Oil based Paint	1 gal	O	~~6 Containers~~ 22 Containers		
	Mineral Spirits	1 gal	O			
	Wood Filler	32.5 oz	O			
	Mop & Glo	32 oz	O			
	Fog Juice	1 gal	O			
	Teflon Paste	4 oz	O	3 containers		
	Roof Cement	1 gal	O			
	Propane	14 oz	O	7 cans		
	Spray Butt	1 gal	O			
	Lamp Oil	½ gal	O			
	ortho weed b gone	24 oz	O			
	Home Pest	1 gal	O			
Cleaning Cpt	Bleach	1 gal	O			
	Comet w/ Bleach	25 oz	O			
	Zep Stainless Steel cleaner	14 oz	O			
	Mean Green Super Strength	40 oz	O			
	Dawn	75 oz	O			
	CLR Calcium & Lyme Remover	1 gal	O			

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Iron out Rust Stain Remover 24 oz O

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Chris French Date/Time Prepared 3/29/22

Preparer's Affiliation AECOM Phone No. 518-860-3855

Purpose of Investigation SVI Sampling

1. OCCUPANT:

Interviewed: (Y) / N

Last Name: ____ First Name: ____

Address: Structure 4

County: Fulton County

Home Phone: ____ Office Phone: ____

Number of Occupants/persons at this location Varies Age of Occupants Varies

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: Y / (N)

Last Name: ____ First Name: ____

Address: ____

County: ____

Home Phone: ____ Office Phone: ____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
Industrial
School
(Church)
Commercial/Multi-use
Other: ____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Church

Does it include residences (i.e., multi-use)? Y / (N) If yes, how many? _____

Other characteristics:

Number of floors 3 Building age 200

Is the building insulated? (Y) / N How air tight? Tight / (Average) / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

Open Balcony between 1st & Second floor

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	concrete	stone	brick
b. Basement type:	full	crawlspace	slab	other _____
c. Basement floor:	concrete	dirt	stone	other _____
d. Basement floor:	uncovered	covered	covered with _____	
e. Concrete floor:	unsealed	sealed	sealed with _____	
f. Foundation walls:	poured	block	stone	other _____
g. Foundation walls:	unsealed	sealed	sealed with _____	
h. The basement is:	wet	damp	dry	moldy
i. The basement is:	finished	unfinished	partially finished	
j. Sump present?	Y / N			
k. Water in sump?	Y / N / not applicable			

Basement/Lowest level depth below grade: 5' (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Cracks in basement, Soil floor in old part of church

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard	
Space Heaters	Steam radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Oil

Boiler/furnace located in:	Basement	Outdoors	Main Floor	Other_____
Air conditioning:	Central Air	Window units (in office only)	Open Windows	None

Are there air distribution ducts present? Y (N)

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally (Seldom) Almost Never

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	Storage Choir Practice
1st Floor	Worship fellowship, Kitchen, office
2nd Floor	Balcony Seating
3rd Floor	
4th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y (N)

b. Does the garage have a separate heating unit? Y / N (NA)

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N (NA) Please specify_____

d. Has the building ever had a fire? (Y) N When? early 1900's

e. Is a kerosene or unvented gas space heater present? Y / (N) Where? _____

f. Is there a workshop or hobby/craft area? Y / (N) Where & Type? _____

g. Is there smoking in the building? Y (N) How frequently? _____

h. Have cleaning products been used recently? (Y) N When & Type? General cleaners within the week

i. Have cosmetic products been used recently? Y (N) When & Type? _____

j. Has painting/staining been done in the last 6 months? Y (N) Where & When? _____

k. Is there new carpet, drapes or other textiles? Y (N) Where & When? _____

l. Have air fresheners been used recently? (Y) / N When & Type? Spray Bathrooms

m. Is there a kitchen exhaust fan? (Y) / N If yes, where vented? unknown

n. Is there a bathroom exhaust fan? (Y) / N If yes, where vented? unknown

o. Is there a clothes dryer? Y (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y (N) When & Type? _____

Are there odors in the building? (Y) / N
If yes, please describe: Decaying Rodent

Do any of the building occupants use solvents at work? Y (N)
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)
Yes, use dry-cleaning infrequently (monthly or less)
Yes, work at a dry-cleaning service
(No)
Unknown

Is there a radon mitigation system for the building/structure? Y (N) Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

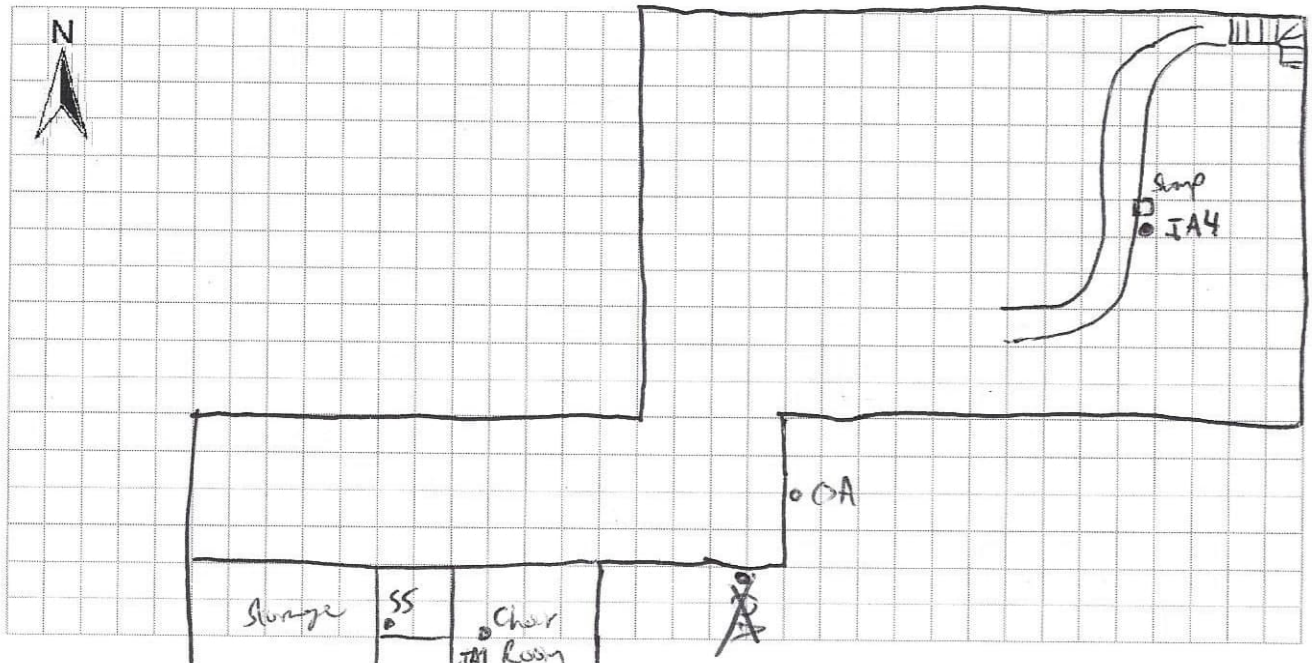
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

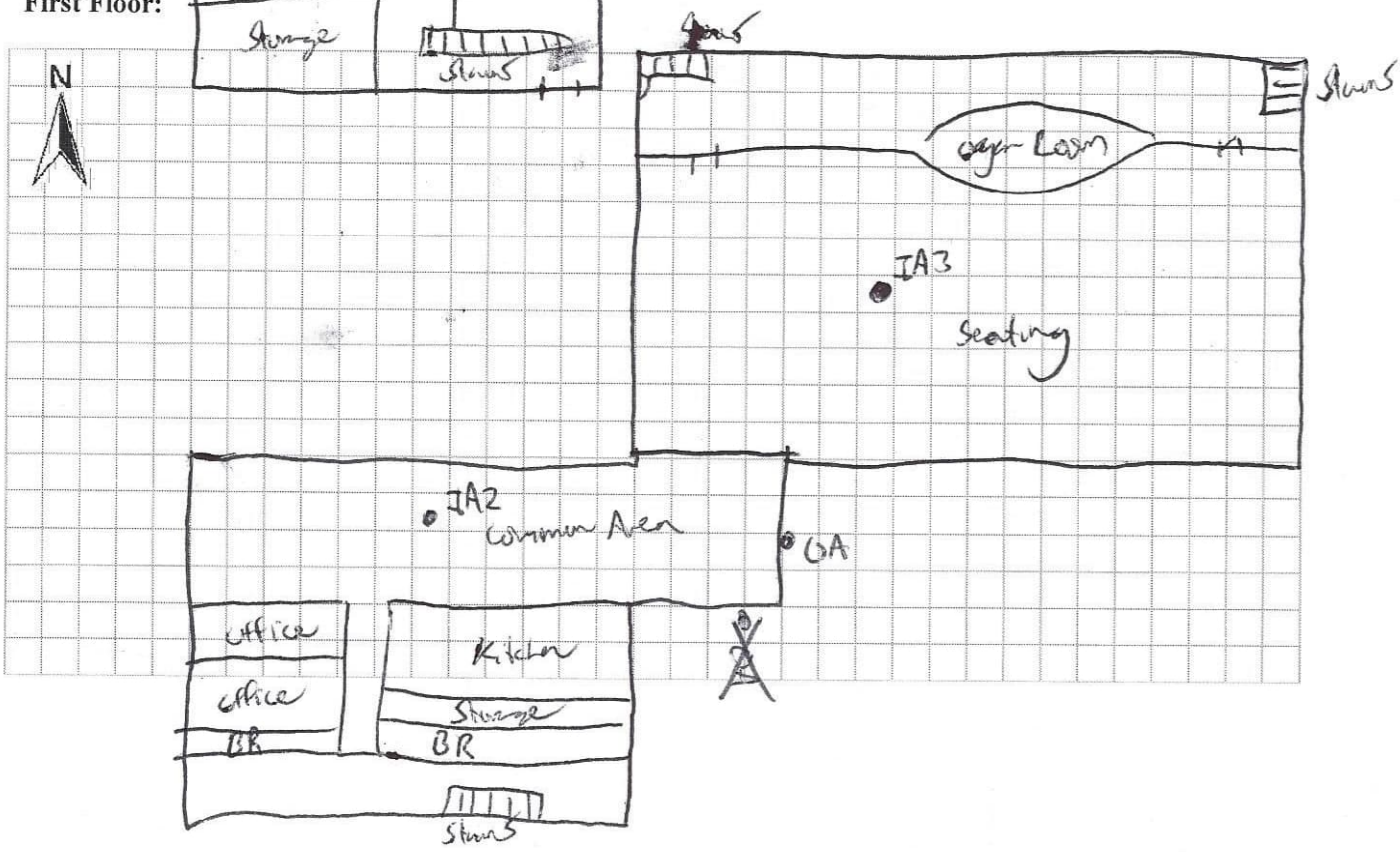
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



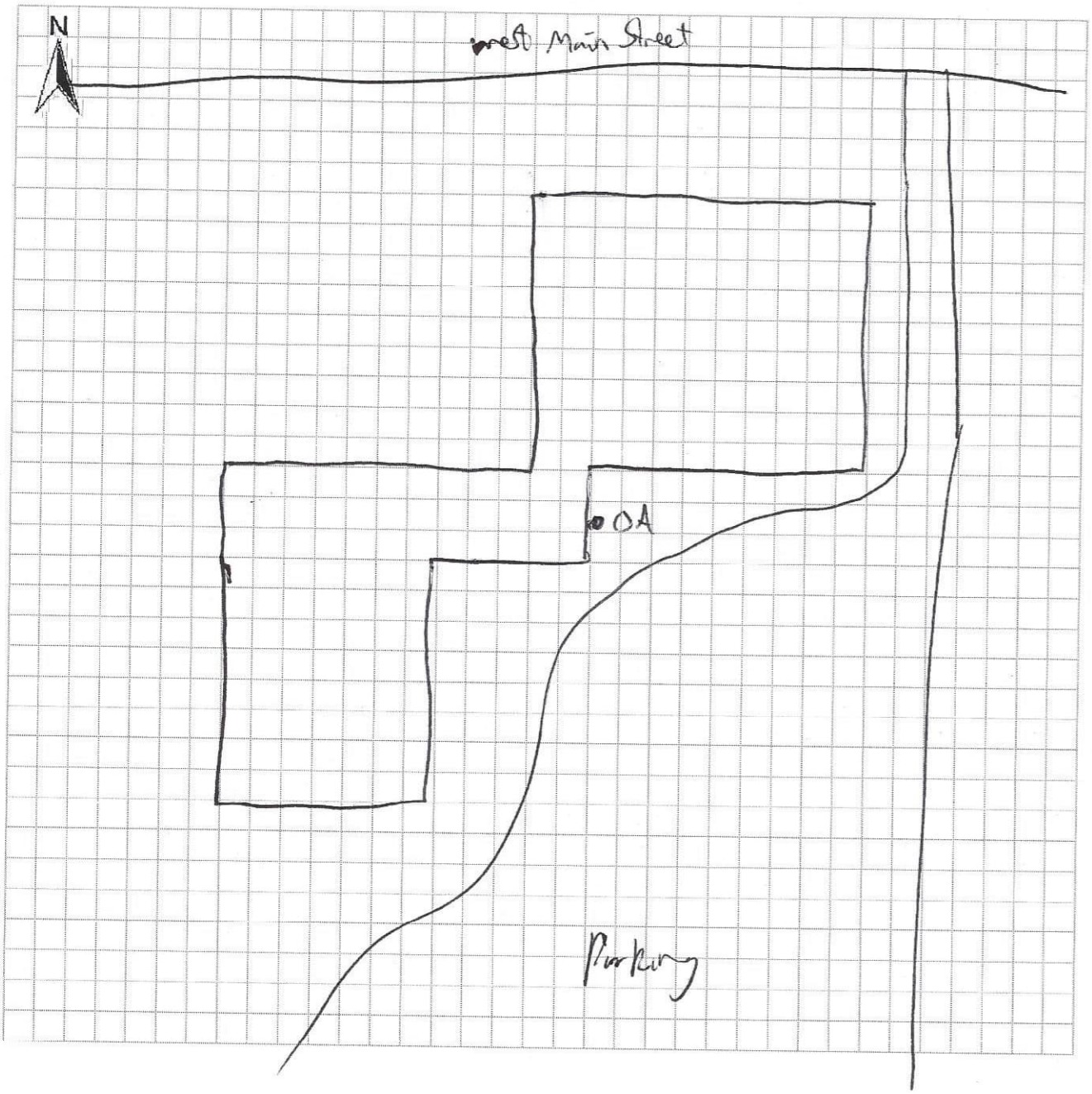
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: RKI GX-6000

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
Old Basement	Presto Rust & Calk Loosener	24 oz	O	very old		
	Small Vandalism Mark Remover	18 oz	O	very old		
	Spirit Duplicator fluid	1 gal	O	Methanol		
	Oil based Paint	1 gal	O x2			
Kitchen	Cabinet Bleach	28 oz	O			
	Vinegar	1 gal	O			
	Bleach	½ gal	O x2			
	Odoban air freshener	1 ounce	O			
	Stainless Steel cleaner	17 oz	O			
	Antiques Miracle Toilet Bowl cleaner	24 oz	O			
	Spray Nine	32 oz	O			
	Weiman Glass cook top cleaner	15 oz				
	Murphy oil soap floor cleaner	½ gal	O			
	Resolve carpet cleaner	16 oz	O			
	Bissell carpet cleaner	32 oz	O			
	Windex	23 oz	O			
	Lime-a-way	22 oz	O x2			
	Cabinet Wood magic	17 oz	O			
	X 14 Mildew & Stain	16 oz	O			
	Spic n Span antibacterial	32 oz	O			
	Purerox oxidized water based disinfectant	1 gal	O			

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Chris French Date/Time Prepared 3/29/22

Preparer's Affiliation Aecom Phone No. 518-860-2855

Purpose of Investigation SVI Sampling

1. OCCUPANT:

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: _____ Structure 5 _____

County: Fulton

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location 3 Age of Occupants 25-72

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: Y / (N)

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential School (Commercial/Multi-use
Industrial Church Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Automotive Repair

Does it include residences (i.e., multi-use)? Y / (N) If yes, how many? _____

Other characteristics:

Number of floors 1 Building age Unknown

Is the building insulated? Y / (N) How air tight? Tight / Average / (Not Tight)

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

N/A

Airflow near source

Outdoor air infiltration

Substantial

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	concrete	stone	brick metal Strut
b. Basement type:	full	crawlspace	slab	other None
c. Basement floor:	concrete	dirt	stone	other _____
d. Basement floor:	uncovered	covered	covered with _____	
e. Concrete floor:	unsealed	sealed	sealed with _____	
f. Foundation walls:	poured	block	stone	other _____
g. Foundation walls:	unsealed	sealed	sealed with _____	
h. The basement is:	wet	damp	dry	moldy
i. The basement is:	finished	unfinished	partially finished	
j. Sump present?	Y / N			
k. Water in sump?	Y / N / not applicable			

Basement/Lowest level depth below grade: ~ (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Cracks in concrete floor

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard	
Space Heaters	Steam radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	Waste Oil

Domestic hot water tank fueled by: Electric

Boiler/furnace located in:	Basement	Outdoors	Main Floor	Other _____
Air conditioning:	Central Air	Window units	Open Windows	None

Are there air distribution ducts present? Y (N)

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time (Occasionally) Seldom Almost Never

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	—
1st Floor	Automotive Shop
2nd Floor	
3rd Floor	
4th Floor	

8. FACTORS THAT MAY influence INDOOR AIR QUALITY

a. Is there an attached garage? ~~Y/N~~ It is a garage

b. Does the garage have a separate heating unit? (Y) / N / NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) (Y) / N / NA
Please specify _____

d. Has the building ever had a fire? Y / (N) When? _____

e. Is a kerosene or unvented gas space heater present? (Y) / N Where? Main floor

f. Is there a workshop or hobby/craft area? (Y) / N Where & Type? Main floor

g. Is there smoking in the building? Y / (N) How frequently? _____

h. Have cleaning products been used recently? (Y) / N When & Type? Break cleaner within last week

i. Have cosmetic products been used recently? Y / (N) When & Type? _____

j. Has painting/staining been done in the last 6 months? Y / (N) Where & When? _____

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When? _____

l. Have air fresheners been used recently? Y / (N) When & Type? _____

m. Is there a kitchen exhaust fan? Y / (N) If yes, where vented? _____

n. Is there a bathroom exhaust fan? (Y) / N If yes, where vented? Side of Building

o. Is there a clothes dryer? Y / (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / (N) When & Type? _____

Are there odors in the building? (Y) / N
If yes, please describe: oil

Do any of the building occupants use solvents at work? (Y) / N
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? Brake cleaner degreaser

If yes, are their clothes washed at work? ~~Y / N~~

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)
Yes, use dry-cleaning infrequently (monthly or less)
Yes, work at a dry-cleaning service
(No)
Unknown

Is there a radon mitigation system for the building/structure? Y / (N) Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

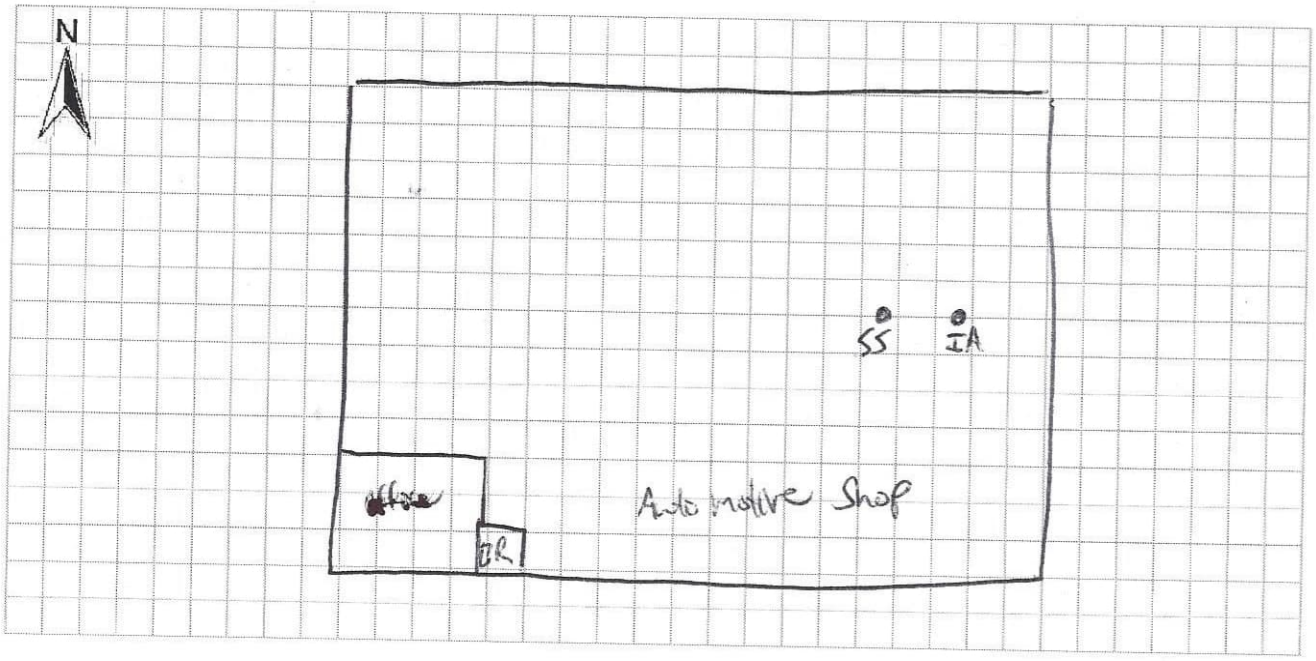
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

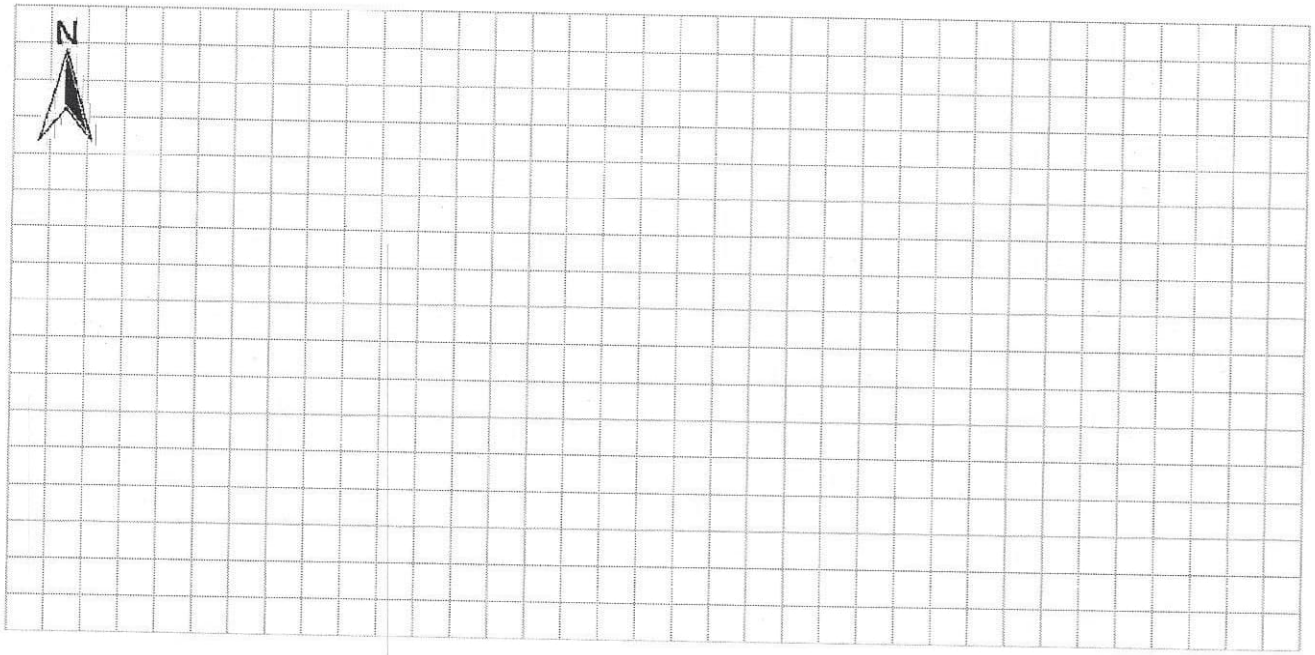
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

~~**Basement:**~~ Ground floor



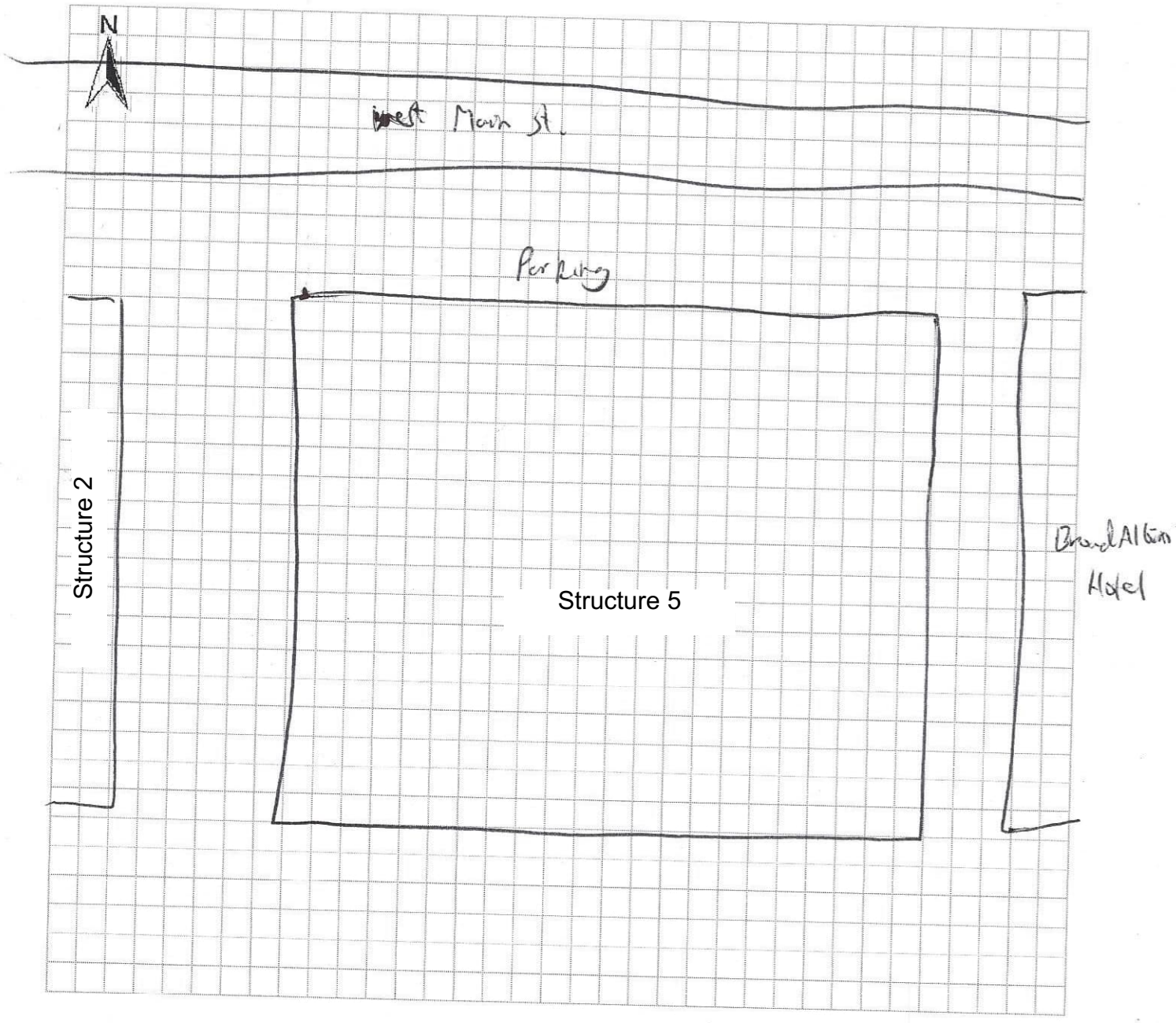
~~**First Floor:**~~



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: RKI GX-6000

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
	Used Motor Oil	150 gal	opened		0.0	N
	Kerosene	75 gal	opened			
	New Motor oil	100 gal	opened			
	Power Steering Fluid	1 qart	opened			
	Noxon Metal Polish	12 oz	↳			
	Rem Oil	10 oz	↳			
	DOT 3 Brake Fluid	1 qart	↳			
	Dupli Color Spray Paint	8 oz				
	Rubbing Compound Turtle Wax	10 oz				
	Sand in Gum tire cord	21 oz				
	Fuel injector cleaner	16 oz				
	Cooling Remover	15 oz				
	Auto wash & Wax	20 oz				
	Mil Shine foam	19 oz				
	Sea Foam Deep Crep	12 oz				
	Brake Cleaner	14 oz	x 2			
	PB Blaster	11 oz				
	Kroy klean Carb cleaner	11 oz				
	White lithium grease	11 oz				

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.