NEW YORK STATE | Department of Health

KATHY HOCHUL
Governor

JAMES V. McDONALD, M.D., M.P.H.
Acting Commissioner

MEGAN E. BALDWIN
Acting Executive Deputy Commissioner

April 6, 2023

[redacted]
282 Nevins Street, LLC.
282 Nevins Street
Brooklyn, NY 11217

Re: **Air Sampling Results – Actions Recommended**
(282 Nevins Street)
473 President Street Off-site
Site #C224220A
Brooklyn, Kings County

Dear [redacted]:

On February 15, 2023, HRP Associates, Inc. (HRP), under direction of the New York State Departments of Environmental Conservation (NYSDEC) and Health (NYSDOH) (collectively referred to as "the State"), collected four air samples from beneath and within your mixed use building at 282 Nevins Street, Brooklyn. The samples were taken as part of the State's ongoing environmental investigation of chlorinated solvent contamination associated with the 473 President Street Off-site area (C224220A) of the 473 President Street Brownfield Site (C224220). The State is overseeing and, in some instances, directly performing environmental investigations and remedial actions in the Gowanus Canal area while taking proactive steps to identify and address public health and/or environmental threats that are found in the neighborhood.

The goal of the indoor air sampling at 282 Nevins Street was to determine whether actions are needed to address potential exposures to trichloroethene (TCE), tetrachloroethene (also known as perchloroethylene, or PERC), and related volatile organic compounds (VOCs) which may move from contaminated groundwater and/or soil vapor into the indoor air of the building through a process referred to as soil vapor intrusion (see enclosed fact sheets for additional information). TCE and PERC are solvents commonly used in industrial operations such as dry cleaning or metals manufacturing, among others.

Based on our review of your data, actions are recommended to address potential exposures associated with soil vapor intrusion. Therefore, the State is offering to install a sub-slab depressurization system (or similar system) on your building to minimize future exposures related to soil vapor intrusion. This system, commonly called a radon mitigation system, is essentially a venting system that draws the air from beneath the building and vents it to the outdoor air above the building's roofline. The installation and maintenance of the system will be conducted at no cost to you.

TCE was detected in the **basement** indoor air at a concentration of 0.76 micrograms per cubic meter (ug/m^3), and on the **first floor** at 0.35 ug/m^3 and 0.23J (estimated). All indoor air samples were below below the NYSDOH TCE Air Guideline Value of 2 ug/m^3. TCE was detected in sub-slab vapor (air beneath the building) at 63 ug/m^3.

PERC was detected in the **basement** indoor air at a concentration of 16 ug/m^3, and on the **first floor** at 6 ug/m^3 and 3.2. All indoor air samples were below the NYSDOH PERC Air Guideline Value of 30 ug/m^3. PERC was detected in sub-slab vapor at 180 ug/m^3.

As expected, other volatile organic compounds were detected in your indoor air because they are a part of our everyday lives. They are present in the products we store and use indoors and in the outdoor air that enters buildings. The concentrations of the other volatile organic compounds detected in your indoor air are consistent with those commonly found in indoor air.

A data table and figure providing the concentrations of TCE and PERC detected are included with this letter. Laboratory data sheets showing all volatile organic compounds and other compounds analyzed for in the samples are also included. In addition, the results were communicated to you on March 31, 2023, by phone.

As discussed, a representative from the State will be contacting you to discuss installation of the sub-slab depressurization system. After the system is operational, the indoor air will be resampled to confirm that the mitigation measures are effective to address exposures or whether additional actions are needed. Resampling of the indoor air will also be conducted at no cost to you. The State's top priority is protecting public health whenever these issues are found at a site, and we are committed to undertaking any further actions necessary to mitigate any potential exposures.

Environmental Conservation Law 27-2405 requires property owners or owners' agents (such as landlords) to notify all of their tenants and occupants of any test results related to indoor air contamination. The law applies to both residential and non-residential properties. More information regarding the tenant notification law and your obligations can be found at: http://www.dec.ny.gov/regulations/55739.html.

We recommend that you provide the information in this letter to each of the tenants occupying space in your building. Please feel free to contact me if you and/or your tenants have any questions regarding the notification and /or the results.

Thank you for your continued cooperation. NYSDEC, or another State representative, will contact you soon to make arrangements regarding next steps. In the meantime, NYSDEC project manager, Richard Mustico and I, NYSDOH project manager, are available to answer any questions you may have. We can be reached at the numbers below if you wish to discuss the results further or would like additional information.

NYSDEC: Richard Mustico - 518-402-9647, richard.mustico1@dec.ny.gov

NYSDOH: Angela Martin – 518-473-4671, angela.martin@health.ny.gov or beei@health.ny.gov

Sincerely,

Angela L. Martin.
Public Health Specialist
Bureau of Environmental Exposure Investigation

EC:
C. Vooris / A. Martin / e-File
E. Wiegert – NYSDOH MARO
M. Little – NYC DOHMH
W. Bennett / R. Mustico – NYSDEC Central Office
J. O'Connell – NYSDEC Region 2

Enclosures:

1) Figure 1: Data Figure
2) Data Table
3) Laboratory Data Sheets
4) SVI: Frequently Asked Questions Fact Sheet: https://www.health.ny.gov/environmental/investigations/soil_gas/svi_guidance/docs/svi_faqs.pdf
5) NYSDOH Tenant Notification Fact Sheet for Trichloroethene Fact sheet: https://www.health.ny.gov/environmental/chemicals/trichloroethene/docs/tenant.pdf
6) TCE in Indoor and Outdoor Air Fact Sheet: https://www.health.ny.gov/environmental/investigations/soil_gas/svi_guidance/docs/fs_tce.pdf
7) Important information on TCE in Indoor and Outdoor Air Fact Sheet: https://www.health.ny.gov/environmental/chemicals/trichloroethene/docs/fs_plain.pdf
8) PERC in Indoor & Outdoor Air https://www.health.ny.gov/environmental/chemicals/tetrachloroethene/docs/perc.pdf

Figure 1: Indoor Air Sampling Results – February 15, 2023

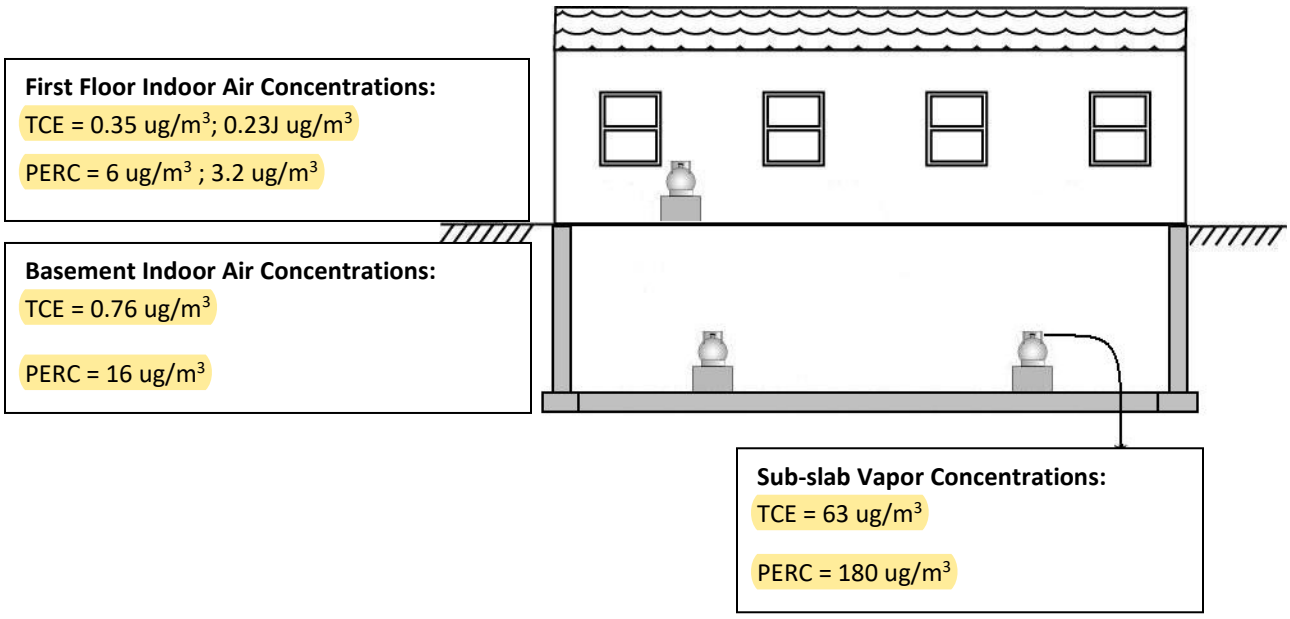

Table 3
Off-Site Soil Vapor Intrusion Investigations
Soil Vapor/Air Laboratory Analytical Results (Detections Only)
473 President Street Off-Site
NYSDEC Site No. C224220A
473 President Street, Brooklyn NY

432-25							
Lab ID:	**23B2104-02**	**23B2104-03**	**23B2104-05**	**23B2104-06**	**23B2104-16**	**NYSDOH May 2017 Matrix Recommendations**	**Final Action Recommended**
Sample ID:	**432-25-B-SS-2R**	**432-25-B-IA-1R**	**432-25-F1-IA-1R**	**432-25-F1-IA-2R**	**OA-1_2.13.23**		
Date Collected:	**2/13-2/14/2023**	**2/13-2/14/2023**	**2/13-2/14/2023**	**2/13-2/14/2023**	**2/13-2/14/2023**		
Sample Locations	**Sub-Slab Soil Vapor Concentration**	**Basement Indoor Air Concentrations**	**First Floor Indoor Air Concentrations**	**First Floor Indoor Air Concentrations**	**Outdoor Air Concentrations**		
Volatile Organic Compounds (µg/m3)							
1,1,2-Trichlorotrifluoroethane (Freon 113)	**0.53 J**	**0.50 J**	**0.51 J**	**0.51 J**	**0.53 J**	NP	**Mitigate**
1,1-Dichloroethane	**1.5**	< 0.2	< 0.2	< 0.2	< 0.2	NP	
1,1-Dichloroethene	**0.38**	< 0.2	< 0.2	< 0.2	< 0.2	No further action	
1,2,4-Trimethylbenzene	**0.29**	**0.23 J**	**0.27**	**0.21 J**	**0.19 J**	NP	
Acetone	< 4.8	**12**	**9.7**	**12**	**7.8**	NP	
Acrolein	< 2.3	**1.5 J**	**0.77 J**	**1.1 J**	< 2.3	NP	
Benzene	**35**	**0.91**	**0.98**	**1**	**0.98**	NP	
Carbon disulfide	**0.31 J**	< 1.6	< 1.6	< 1.6	< 1.6	NP	
Carbon tetrachloride	**0.26 J**	**0.57**	**0.48**	**0.53**	**0.52**	No further action	
Chloroethane	**0.12 J**	< 0.13	< 0.13	< 0.13	< 0.13	NP	
Chloroform	**44**	< 0.24	< 0.24	< 0.24	< 0.24	NP	
Chloromethane	**0.28**	**1.1**	**1.3**	**1.3**	**1.2**	NP	
cis-1,2-Dichloroethene	**53**	**1.1**	**0.67**	**0.19 J**	< 0.2	**Mitigate**	
Cyclohexane	**11**	< 0.17	**0.14 J**	**0.15 J**	**0.13 J**	NP	
Dichlorodifluoromethane	**3.4**	**2.7**	**2.6**	**2.7**	**2.8**	NP	
Ethanol	**19**	**24**	**19**	**150 D**	**15**	NP	
Ethyl Acetate	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	NP	
Ethylbenzene	**0.45**	**0.20 J**	**0.20 J**	**0.21 J**	**0.17 J**	NP	
Heptane	**1.6**	**0.23**	**0.28**	**0.34**	**0.3**	NP	
Isopropyl Alcohol	**100**	**100**	**63**	**17**	**26**	NP	
m,p-Xylene	**1**	**0.32 J**	**0.47**	**0.51**	**0.45**	NP	
Methylene chloride	< 1.7	< 1.7	**0.91 J**	< 1.7	< 1.7	No further action	
Methyltertbutyl ether	**92**	< 0.18	< 0.18	< 0.18	< 0.18	NP	
Naphthalene	< 0.26	**0.21 J**	< 0.26	**0.23 J**	< 0.26	NP	
o-Xylene	**0.27**	**0.21 J**	**0.22**	**0.22**	**0.21 J**	NP	
Propene	**5.5**	< 3.4	< 3.4	< 3.4	< 3.4	NP	
Styrene	**0.48**	< 0.21	< 0.21	< 0.21	< 0.21	NP	
Tetrachloroethene	**180**	**16**	**6**	**3.2**	**0.39**	**Mitigate**	
Tetrahydrofuran	**1.5 J**	< 1.5	< 1.5	< 1.5	< 1.5	NP	
Toluene	**1.1**	**0.64**	**0.82**	**0.89**	**0.83**	NP	
trans-1,2-Dichloroethene	**2.6**	**0.19 J**	< 0.2	< 0.2	< 0.2	NP	
Trichloroethene	**63**	**0.76**	**0.35**	**0.23 J**	< 0.27	**Mitigate**	
Trichlorofluoromethane	**1.2**	**1.4**	**1.3**	**1.3**	**1.4**	NP	
Vinyl chloride	**8.6**	**0.24**	**0.13**	< 0.13	< 0.13	**Mitigate**	

Legend:	
50	= Parameter requires specific action
25	= Parameter detected above the laboratory reporting limit
< 10	= Parameter not detected above the reporting limit or method detection limit (reporting limit shown)

Notes:
All concentrations in micrograms per cubic meter (µg/m^3)
Recommendations based on NYSDOH Soil Vapor/Indoor Air Matrices (May 2017)
NP = Standard not promulgated
J=Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration
Sub-slab soil vapor sample 432-25-B-SS-1R not analyzed due to insuffiecient sample (water present in sample train).
Indoor air sample 432-25-B-IA-2R data omitted due to zero vacuum in cannister at end of sampling period.

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ANALYTICAL RESULTS

Project Location: 473 President St, Brooklyn,NY
Date Received: 2/17/2023
Field Sample #: 432-25-B-SS-2R
Sample ID: 23B2104-02
Sample Matrix: Soil Gas
Sampled: 2/14/2023 09:18

Sample Description/Location:
Sub Description/Location:
Canister ID: 1804
Canister Size: 6 liter
Flow Controller ID: 3075
Sample Type: 24 hr

Work Order: 23B2104
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg):
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	ND	2.0	1.2		ND	4.8	2.9	1	3/4/23 7:29	CMR
Acrolein	ND	1.0	0.25		ND	2.3	0.57	1	3/4/23 7:29	CMR
Benzene	11	0.050	0.038		35	0.16	0.12	1	3/4/23 7:29	CMR
Benzyl chloride	ND	0.050	0.044		ND	0.26	0.23	1	3/4/23 7:29	CMR
Bromodichloromethane	ND	0.050	0.035		ND	0.34	0.23	1	3/4/23 7:29	CMR
Bromoform	ND	0.050	0.034		ND	0.52	0.35	1	3/4/23 7:29	CMR
Bromomethane	ND	0.050	0.033		ND	0.19	0.13	1	3/4/23 7:29	CMR
1,3-Butadiene	ND	0.050	0.042		ND	0.11	0.093	1	3/4/23 7:29	CMR
2-Butanone (MEK)	ND	2.0	0.53		ND	5.9	1.6	1	3/4/23 7:29	CMR
Carbon Disulfide	0.10	0.50	0.046	J	0.31	1.6	0.14	1	3/4/23 7:29	CMR
Carbon Tetrachloride	0.041	0.050	0.040	J	0.26	0.31	0.25	1	3/4/23 7:29	CMR
Chlorobenzene	ND	0.050	0.033		ND	0.23	0.15	1	3/4/23 7:29	CMR
Chloroethane	0.045	0.050	0.044	J	0.12	0.13	0.12	1	3/4/23 7:29	CMR
Chloroform	9.1	0.050	0.048		44	0.24	0.23	1	3/4/23 7:29	CMR
Chloromethane	0.13	0.10	0.040		0.28	0.21	0.082	1	3/4/23 7:29	CMR
Cyclohexane	3.3	0.050	0.030		11	0.17	0.10	1	3/4/23 7:29	CMR
Dibromochloromethane	ND	0.050	0.033		ND	0.43	0.28	1	3/4/23 7:29	CMR
1,2-Dibromoethane (EDB)	ND	0.050	0.030		ND	0.38	0.23	1	3/4/23 7:29	CMR
1,2-Dichlorobenzene	ND	0.050	0.029		ND	0.30	0.17	1	3/4/23 7:29	CMR
1,3-Dichlorobenzene	ND	0.050	0.028		ND	0.30	0.17	1	3/4/23 7:29	CMR
1,4-Dichlorobenzene	ND	0.050	0.033		ND	0.30	0.20	1	3/4/23 7:29	CMR
Dichlorodifluoromethane (Freon 12)	0.68	0.050	0.049		3.4	0.25	0.24	1	3/4/23 7:29	CMR
1,1-Dichloroethane	0.36	0.050	0.044		1.5	0.20	0.18	1	3/4/23 7:29	CMR
1,2-Dichloroethane	ND	0.050	0.045		ND	0.20	0.18	1	3/4/23 7:29	CMR
1,1-Dichloroethylene	0.096	0.050	0.038		0.38	0.20	0.15	1	3/4/23 7:29	CMR
cis-1,2-Dichloroethylene	13	0.050	0.036		53	0.20	0.14	1	3/4/23 7:29	CMR
trans-1,2-Dichloroethylene	0.66	0.050	0.039		2.6	0.20	0.16	1	3/4/23 7:29	CMR
1,2-Dichloropropane	ND	0.050	0.027		ND	0.23	0.13	1	3/4/23 7:29	CMR
cis-1,3-Dichloropropene	ND	0.050	0.026		ND	0.23	0.12	1	3/4/23 7:29	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.050	0.049		ND	0.35	0.34	1	3/4/23 7:29	CMR
1,4-Dioxane	ND	0.50	0.042		ND	1.8	0.15	1	3/4/23 7:29	CMR
Ethanol	10	2.0	0.88		19	3.8	1.7	1	3/4/23 7:29	CMR
Ethyl Acetate	ND	0.50	0.25		ND	1.8	0.91	1	3/4/23 7:29	CMR
Ethylbenzene	0.10	0.050	0.029		0.45	0.22	0.13	1	3/4/23 7:29	CMR
4-Ethyltoluene	ND	0.050	0.031		ND	0.25	0.15	1	3/4/23 7:29	CMR
Heptane	0.38	0.050	0.032		1.6	0.20	0.13	1	3/4/23 7:29	CMR
Hexachlorobutadiene	ND	0.050	0.041		ND	0.53	0.44	1	3/4/23 7:29	CMR
Hexane	5.5	2.0	0.26		20	7.0	0.92	1	3/4/23 7:29	CMR
2-Hexanone (MBK)	ND	0.050	0.025		ND	0.20	0.10	1	3/4/23 7:29	CMR
Isopropanol	41	2.0	0.34		100	4.9	0.85	1	3/4/23 7:29	CMR
Methyl tert-Butyl Ether (MTBE)	26	0.050	0.039		92	0.18	0.14	1	3/4/23 7:29	CMR
Methylene Chloride	ND	0.50	0.23		ND	1.7	0.81	1	3/4/23 7:29	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.050	0.027		ND	0.20	0.11	1	3/4/23 7:29	CMR
Naphthalene	ND	0.050	0.038	UJ ~~V05~~	ND	0.26	0.20	1	3/4/23 7:29	CMR
Propene	3.2	2.0	0.44		5.5	3.4	0.76	1	3/4/23 7:29	CMR
Styrene	0.11	0.050	0.026	J ~~L05~~	0.48	0.21	0.11	1	3/4/23 7:29	CMR
1,1,2,2-Tetrachloroethane	ND	0.050	0.027		ND	0.34	0.19	1	3/4/23 7:29	CMR

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ANALYTICAL RESULTS

Project Location: 473 President St, Brooklyn,NY
Date Received: 2/17/2023
Field Sample #: 432-25-B-SS-2R
Sample ID: 23B2104-02
Sample Matrix: Soil Gas
Sampled: 2/14/2023 09:18

Sample Description/Location:
Sub Description/Location:
Canister ID: 1804
Canister Size: 6 liter
Flow Controller ID: 3075
Sample Type: 24 hr

Work Order: 23B2104
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg):
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	27	0.050	0.038		180	0.34	0.26	1	3/4/23 7:29	CMR
Tetrahydrofuran	0.50	0.50	0.082	J	1.5	1.5	0.24	1	3/4/23 7:29	CMR
Toluene	0.29	0.050	0.029		1.1	0.19	0.11	1	3/4/23 7:29	CMR
1,2,4-Trichlorobenzene	ND	0.050	0.046		ND	0.37	0.34	1	3/4/23 7:29	CMR
1,1,1-Trichloroethane	ND	0.050	0.039		ND	0.27	0.21	1	3/4/23 7:29	CMR
1,1,2-Trichloroethane	ND	0.050	0.035		ND	0.27	0.19	1	3/4/23 7:29	CMR
Trichloroethylene	12	0.050	0.034		63	0.27	0.18	1	3/4/23 7:29	CMR
Trichlorofluoromethane (Freon 11)	0.22	0.20	0.059		1.2	1.1	0.33	1	3/4/23 7:29	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.069	0.20	0.056	J	0.53	1.5	0.43	1	3/4/23 7:29	CMR
1,2,4-Trimethylbenzene	0.058	0.050	0.022		0.29	0.25	0.11	1	3/4/23 7:29	CMR
1,3,5-Trimethylbenzene	ND	0.050	0.026		ND	0.25	0.13	1	3/4/23 7:29	CMR
Vinyl Acetate	ND	0.50	0.27		ND	1.8	0.95	1	3/4/23 7:29	CMR
Vinyl Chloride	3.4	0.050	0.045		8.6	0.13	0.12	1	3/4/23 7:29	CMR
m&p-Xylene	0.23	0.10	0.056		1.00	0.43	0.24	1	3/4/23 7:29	CMR
o-Xylene	0.063	0.050	0.026		0.27	0.22	0.11	1	3/4/23 7:29	CMR

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	105	70-130		3/4/23 7:29

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ANALYTICAL RESULTS

Project Location: 473 President St. Brooklyn,NY
Date Received: 2/17/2023
Field Sample #: 432-25-B-1A-1R
Sample ID: 23B2104-03
Sample Matrix: Indoor air
Sampled: 2/14/2023 09:18

Sample Description/Location:
Sub Description/Location:
Canister ID: 2188
Canister Size: 6 liter
Flow Controller ID: 3104
Sample Type: 24 hr

Work Order: 23B2104
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg):
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
Acetone	5.0	2.0	1.2		12	4.8	2.9	1	3/3/23 16:44	CMR
Acrolein	0.66	1.0	0.25	J	1.5	2.3	0.57	1	3/3/23 16:44	CMR
Benzene	0.28	0.050	0.038		0.91	0.16	0.12	1	3/3/23 16:44	CMR
Benzyl chloride	ND	0.050	0.044		ND	0.26	0.23	1	3/3/23 16:44	CMR
Bromodichloromethane	ND	0.050	0.035		ND	0.34	0.23	1	3/3/23 16:44	CMR
Bromoform	ND	0.050	0.034		ND	0.52	0.35	1	3/3/23 16:44	CMR
Bromomethane	ND	0.050	0.033		ND	0.19	0.13	1	3/3/23 16:44	CMR
1,3-Butadiene	ND	0.050	0.042		ND	0.11	0.093	1	3/3/23 16:44	CMR
2-Butanone (MEK)	ND	2.0	0.53		ND	5.9	1.6	1	3/3/23 16:44	CMR
Carbon Disulfide	ND	0.50	0.046		ND	1.6	0.14	1	3/3/23 16:44	CMR
Carbon Tetrachloride	0.091	0.050	0.040		0.57	0.31	0.25	1	3/3/23 16:44	CMR
Chlorobenzene	ND	0.050	0.033		ND	0.23	0.15	1	3/3/23 16:44	CMR
Chloroethane	ND	0.050	0.044		ND	0.13	0.12	1	3/3/23 16:44	CMR
Chloroform	ND	0.050	0.048		ND	0.24	0.23	1	3/3/23 16:44	CMR
Chloromethane	0.52	0.10	0.040		1.1	0.21	0.082	1	3/3/23 16:44	CMR
Cyclohexane	ND	0.050	0.030		ND	0.17	0.10	1	3/3/23 16:44	CMR
Dibromochloromethane	ND	0.050	0.033		ND	0.43	0.28	1	3/3/23 16:44	CMR
1,2-Dibromoethane (EDB)	ND	0.050	0.030		ND	0.38	0.23	1	3/3/23 16:44	CMR
1,2-Dichlorobenzene	ND	0.050	0.029		ND	0.30	0.17	1	3/3/23 16:44	CMR
1,3-Dichlorobenzene	ND	0.050	0.028		ND	0.30	0.17	1	3/3/23 16:44	CMR
1,4-Dichlorobenzene	ND	0.050	0.033		ND	0.30	0.20	1	3/3/23 16:44	CMR
Dichlorodifluoromethane (Freon 12)	0.55	0.050	0.049		2.7	0.25	0.24	1	3/3/23 16:44	CMR
1,1-Dichloroethane	ND	0.050	0.044		ND	0.20	0.18	1	3/3/23 16:44	CMR
1,2-Dichloroethane	ND	0.050	0.045		ND	0.20	0.18	1	3/3/23 16:44	CMR
1,1-Dichloroethylene	ND	0.050	0.038		ND	0.20	0.15	1	3/3/23 16:44	CMR
cis-1,2-Dichloroethylene	0.27	0.050	0.036		1.1	0.20	0.14	1	3/3/23 16:44	CMR
trans-1,2-Dichloroethylene	0.047	0.050	0.039	J	0.19	0.20	0.16	1	3/3/23 16:44	CMR
1,2-Dichloropropane	ND	0.050	0.027		ND	0.23	0.13	1	3/3/23 16:44	CMR
cis-1,3-Dichloropropene	ND	0.050	0.026		ND	0.23	0.12	1	3/3/23 16:44	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.050	0.049		ND	0.35	0.34	1	3/3/23 16:44	CMR
1,4-Dioxane	ND	0.50	0.042		ND	1.8	0.15	1	3/3/23 16:44	CMR
Ethanol	13	2.0	0.88		24	3.8	1.7	1	3/3/23 16:44	CMR
Ethyl Acetate	ND	0.50	0.25		ND	1.8	0.91	1	3/3/23 16:44	CMR
Ethylbenzene	0.046	0.050	0.029	J	0.20	0.22	0.13	1	3/3/23 16:44	CMR
4-Ethyltoluene	ND	0.050	0.031		ND	0.25	0.15	1	3/3/23 16:44	CMR
Heptane	0.055	0.050	0.032		0.23	0.20	0.13	1	3/3/23 16:44	CMR
Hexachlorobutadiene	ND	0.050	0.041		ND	0.53	0.44	1	3/3/23 16:44	CMR
Hexane	ND	2.0	0.26		ND	7.0	0.92	1	3/3/23 16:44	CMR
2-Hexanone (MBK)	ND	0.050	0.025		ND	0.20	0.10	1	3/3/23 16:44	CMR
Isopropanol	42	2.0	0.34		100	4.9	0.85	1	3/3/23 16:44	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.050	0.039		ND	0.18	0.14	1	3/3/23 16:44	CMR
Methylene Chloride	ND	0.50	0.23		ND	1.7	0.81	1	3/3/23 16:44	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.050	0.027		ND	0.20	0.11	1	3/3/23 16:44	CMR
Naphthalene	0.040	0.050	0.038	J ~~V-05, J~~	0.21	0.26	0.20	1	3/3/23 16:44	CMR
Propene	ND	2.0	0.44		ND	3.4	0.76	1	3/3/23 16:44	CMR
Styrene	ND	0.050	0.026		ND	0.21	0.11	1	3/3/23 16:44	CMR
1,1,2,2-Tetrachloroethane	ND	0.050	0.027		ND	0.34	0.19	1	3/3/23 16:44	CMR

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ANALYTICAL RESULTS

Project Location: 473 President St, Brooklyn,NY
Date Received: 2/17/2023
Field Sample #: 432-25-B-IA-1R
Sample ID: 23B2104-03
Sample Matrix: Indoor air
Sampled: 2/14/2023 09:18

Sample Description/Location:
Sub Description/Location:
Canister ID: 2188
Canister Size: 6 liter
Flow Controller ID: 3104
Sample Type: 24 hr

Work Order: 23B2104
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg):
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	2.4	0.050	0.038		16	0.34	0.26	1	3/3/23 16:44	CMR
Tetrahydrofuran	ND	0.50	0.082		ND	1.5	0.24	1	3/3/23 16:44	CMR
Toluene	0.17	0.050	0.029		0.64	0.19	0.11	1	3/3/23 16:44	CMR
1,2,4-Trichlorobenzene	ND	0.050	0.046		ND	0.37	0.34	1	3/3/23 16:44	CMR
1,1,1-Trichloroethane	ND	0.050	0.039		ND	0.27	0.21	1	3/3/23 16:44	CMR
1,1,2-Trichloroethane	ND	0.050	0.035		ND	0.27	0.19	1	3/3/23 16:44	CMR
Trichloroethylene	0.14	0.050	0.034		0.76	0.27	0.18	1	3/3/23 16:44	CMR
Trichlorofluoromethane (Freon 11)	0.24	0.20	0.059		1.4	1.1	0.33	1	3/3/23 16:44	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.065	0.20	0.056	J	0.50	1.5	0.43	1	3/3/23 16:44	CMR
1,2,4-Trimethylbenzene	0.046	0.050	0.022	J	0.23	0.25	0.11	1	3/3/23 16:44	CMR
1,3,5-Trimethylbenzene	ND	0.050	0.026		ND	0.25	0.13	1	3/3/23 16:44	CMR
Vinyl Acetate	ND	0.50	0.27		ND	1.8	0.95	1	3/3/23 16:44	CMR
Vinyl Chloride	0.093	0.050	0.045		0.24	0.13	0.12	1	3/3/23 16:44	CMR
m&p-Xylene	0.074	0.10	0.056	J	0.32	0.43	0.24	1	3/3/23 16:44	CMR
o-Xylene	0.049	0.050	0.026	J	0.21	0.22	0.11	1	3/3/23 16:44	CMR

Surrogates	% Recovery	% REC Limits	Date/Time Analyzed
4-Bromofluorobenzene (1)	98.6	70-130	3/3/23 16:44

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4

ANALYTICAL RESULTS

Project Location: 473 President St, Brooklyn,NY
Date Received: 2/17/2023
Field Sample #: 432-25-B-1A-2R
Sample ID: 23B2104-04
Sample Matrix: Indoor air
Sampled: 2/14/2023 09:18

Sample Description/Location:
Sub Description/Location:
Canister ID: 2164
Canister Size: 6 liter
Flow Controller ID: 3614
Sample Type: 24 hr

Work Order: 23B2104
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): 0
Receipt Vacuum(in Hg):
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Sample Flags: Z-01

Analyte	ppbv Results	ppbv RL	ppbv MDL	Flag/Qual	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Dilution	Date/Time Analyzed	Analyst
Acetone	4.4	2.0	1.2		10	4.8	2.9	1	3/3/23 17:12	CMR
Acrolein	0.50	1.0	0.25	J	1.1	2.3	0.57	1	3/3/23 17:12	CMR
Benzene	0.34	0.050	0.038		1.1	0.16	0.12	1	3/3/23 17:12	CMR
Benzyl chloride	ND	0.050	0.044		ND	0.26	0.23	1	3/3/23 17:12	CMR
Bromodichloromethane	ND	0.050	0.035		ND	0.34	0.23	1	3/3/23 17:12	CMR
Bromoform	ND	0.050	0.034		ND	0.52	0.35	1	3/3/23 17:12	CMR
Bromomethane	ND	0.050	0.033		ND	0.19	0.13	1	3/3/23 17:12	CMR
1,3-Butadiene	ND	0.050	0.042		ND	0.11	0.093	1	3/3/23 17:12	CMR
2-Butanone (MEK)	ND	2.0	0.53		ND	5.9	1.6	1	3/3/23 17:12	CMR
Carbon Disulfide	ND	0.50	0.046		ND	1.6	0.14	1	3/3/23 17:12	CMR
Carbon Tetrachloride	0.10	0.050	0.040		0.65	0.31	0.25	1	3/3/23 17:12	CMR
Chlorobenzene	ND	0.050	0.033		ND	0.23	0.15	1	3/3/23 17:12	CMR
Chloroethane	ND	0.050	0.044		ND	0.13	0.12	1	3/3/23 17:12	CMR
Chloroform	ND	0.050	0.048		ND	0.24	0.23	1	3/3/23 17:12	CMR
Chloromethane	0.59	0.10	0.040		1.2	0.21	0.082	1	3/3/23 17:12	CMR
Cyclohexane	0.040	0.050	0.030	J	0.14	0.17	0.10	1	3/3/23 17:12	CMR
Dibromochloromethane	ND	0.050	0.033		ND	0.43	0.28	1	3/3/23 17:12	CMR
1,2-Dibromoethane (EDB)	ND	0.050	0.030		ND	0.38	0.23	1	3/3/23 17:12	CMR
1,2-Dichlorobenzene	ND	0.050	0.029		ND	0.30	0.17	1	3/3/23 17:12	CMR
1,3-Dichlorobenzene	ND	0.050	0.028		ND	0.30	0.17	1	3/3/23 17:12	CMR
1,4-Dichlorobenzene	ND	0.050	0.033		ND	0.30	0.20	1	3/3/23 17:12	CMR
Dichlorodifluoromethane (Freon 12)	0.54	0.050	0.049		2.7	0.25	0.24	1	3/3/23 17:12	CMR
1,1-Dichloroethane	ND	0.050	0.044		ND	0.20	0.18	1	3/3/23 17:12	CMR
1,2-Dichloroethane	ND	0.050	0.045		ND	0.20	0.18	1	3/3/23 17:12	CMR
1,1-Dichloroethylene	ND	0.050	0.038		ND	0.20	0.15	1	3/3/23 17:12	CMR
cis-1,2-Dichloroethylene	0.15	0.050	0.036		0.59	0.20	0.14	1	3/3/23 17:12	CMR
trans-1,2-Dichloroethylene	ND	0.050	0.039		ND	0.20	0.16	1	3/3/23 17:12	CMR
1,2-Dichloropropane	ND	0.050	0.027		ND	0.23	0.13	1	3/3/23 17:12	CMR
cis-1,3-Dichloropropene	ND	0.050	0.026		ND	0.23	0.12	1	3/3/23 17:12	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.050	0.049		ND	0.35	0.34	1	3/3/23 17:12	CMR
1,4-Dioxane	ND	0.50	0.042		ND	1.8	0.15	1	3/3/23 17:12	CMR
Ethanol	5.7	2.0	0.88		11	3.8	1.7	1	3/3/23 17:12	CMR
Ethyl Acetate	ND	0.50	0.25		ND	1.8	0.91	1	3/3/23 17:12	CMR
Ethylbenzene	0.043	0.050	0.029	J	0.19	0.22	0.13	1	3/3/23 17:12	CMR
4-Ethyltoluene	ND	0.050	0.031		ND	0.25	0.15	1	3/3/23 17:12	CMR
Heptane	0.063	0.050	0.032		0.26	0.20	0.13	1	3/3/23 17:12	CMR
Hexachlorobutadiene	ND	0.050	0.041		ND	0.53	0.44	1	3/3/23 17:12	CMR
Hexane	ND	2.0	0.26		ND	7.0	0.92	1	3/3/23 17:12	CMR
2-Hexanone (MBK)	ND	0.050	0.025		ND	0.20	0.10	1	3/3/23 17:12	CMR
Isopropanol	1.9	2.0	0.34	J	4.7	4.9	0.85	1	3/3/23 17:12	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.050	0.039		ND	0.18	0.14	1	3/3/23 17:12	CMR
Methylene Chloride	ND	0.50	0.23		ND	1.7	0.81	1	3/3/23 17:12	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.050	0.027		ND	0.20	0.11	1	3/3/23 17:12	CMR
Naphthalene	ND	0.050	0.038	UJ V-05	ND	0.26	0.20	1	3/3/23 17:12	CMR
Propene	ND	2.0	0.44		ND	3.4	0.76	1	3/3/23 17:12	CMR
Styrene	ND	0.050	0.026		ND	0.21	0.11	1	3/3/23 17:12	CMR
1,1,2,2-Tetrachloroethane	ND	0.050	0.027		ND	0.34	0.19	1	3/3/23 17:12	CMR

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4

ANALYTICAL RESULTS

Project Location: 473 President St, Brooklyn,NY
Date Received: 2/17/2023
Field Sample #: 432-25-B-IA-2R
Sample ID: 23B2104-04
Sample Matrix: Indoor air
Sampled: 2/14/2023 09:18

Sample Description/Location:
Sub Description/Location:
Canister ID: 2164
Canister Size: 6 liter
Flow Controller ID: 3614
Sample Type: 24 hr

Work Order: 23B2104
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): 0
Receipt Vacuum(in Hg):
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Sample Flags: Z-01

Analyte	ppbv Results	ppbv RL	ppbv MDL	Flag/Qual	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Dilution	Date/Time Analyzed	Analyst
Tetrachloroethylene	0.96	0.050	0.038		6.5	0.34	0.26	1	3/3/23 17:12	CMR
Tetrahydrofuran	ND	0.50	0.082		ND	1.5	0.24	1	3/3/23 17:12	CMR
Toluene	0.22	0.050	0.029		0.83	0.19	0.11	1	3/3/23 17:12	CMR
1,2,4-Trichlorobenzene	ND	0.050	0.046		ND	0.37	0.34	1	3/3/23 17:12	CMR
1,1,1-Trichloroethane	ND	0.050	0.039		ND	0.27	0.21	1	3/3/23 17:12	CMR
1,1,2-Trichloroethane	ND	0.050	0.035		ND	0.27	0.19	1	3/3/23 17:12	CMR
Trichloroethylene	0.087	0.050	0.034		0.47	0.27	0.18	1	3/3/23 17:12	CMR
Trichlorofluoromethane (Freon 11)	0.23	0.20	0.059		1.3	1.1	0.33	1	3/3/23 17:12	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.065	0.20	0.056	J	0.50	1.5	0.43	1	3/3/23 17:12	CMR
1,2,4-Trimethylbenzene	0.039	0.050	0.022	J	0.19	0.25	0.11	1	3/3/23 17:12	CMR
1,3,5-Trimethylbenzene	ND	0.050	0.026		ND	0.25	0.13	1	3/3/23 17:12	CMR
Vinyl Acetate	ND	0.50	0.27		ND	1.8	0.95	1	3/3/23 17:12	CMR
Vinyl Chloride	0.061	0.050	0.045		0.16	0.13	0.12	1	3/3/23 17:12	CMR
m&p-Xylene	0.095	0.10	0.056	J	0.41	0.43	0.24	1	3/3/23 17:12	CMR
o-Xylene	0.050	0.050	0.026		0.22	0.22	0.11	1	3/3/23 17:12	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	102	70-130	3/3/23 17:12

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5

ANALYTICAL RESULTS

Project Location: 473 President St, Brooklyn,NY
Date Received: 2/17/2023
Field Sample #: 432-25-F1-IA-1R
Sample ID: 23B2104-05
Sample Matrix: Indoor air
Sampled: 2/14/2023 10:15

Sample Description/Location:
Sub Description/Location:
Canister ID: 1947
Canister Size: 6 liter
Flow Controller ID: 3363
Sample Type: 24 hr

Work Order: 23B2104
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg):
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	Results (ppbv)	RL (ppbv)	MDL (ppbv)	Flag/Qual	Results (ug/m3)	RL (ug/m3)	MDL (ug/m3)	Dilution	Date/Time Analyzed	Analyst
Acetone	4.1	2.0	1.2		9.7	4.8	2.9	1	3/3/23 17:41	CMR
Acrolein	0.34	1.0	0.25	J	0.77	2.3	0.57	1	3/3/23 17:41	CMR
Benzene	0.31	0.050	0.038		0.98	0.16	0.12	1	3/3/23 17:41	CMR
Benzyl chloride	ND	0.050	0.044		ND	0.26	0.23	1	3/3/23 17:41	CMR
Bromodichloromethane	ND	0.050	0.035		ND	0.34	0.23	1	3/3/23 17:41	CMR
Bromoform	ND	0.050	0.034		ND	0.52	0.35	1	3/3/23 17:41	CMR
Bromomethane	ND	0.050	0.033		ND	0.19	0.13	1	3/3/23 17:41	CMR
1,3-Butadiene	ND	0.050	0.042		ND	0.11	0.093	1	3/3/23 17:41	CMR
2-Butanone (MEK)	ND	2.0	0.53		ND	5.9	1.6	1	3/3/23 17:41	CMR
Carbon Disulfide	ND	0.50	0.046		ND	1.6	0.14	1	3/3/23 17:41	CMR
Carbon Tetrachloride	0.077	0.050	0.040		0.48	0.31	0.25	1	3/3/23 17:41	CMR
Chlorobenzene	ND	0.050	0.033		ND	0.23	0.15	1	3/3/23 17:41	CMR
Chloroethane	ND	0.050	0.044		ND	0.13	0.12	1	3/3/23 17:41	CMR
Chloroform	ND	0.050	0.048		ND	0.24	0.23	1	3/3/23 17:41	CMR
Chloromethane	0.63	0.10	0.040		1.3	0.21	0.082	1	3/3/23 17:41	CMR
Cyclohexane	0.041	0.050	0.030	J	0.14	0.17	0.10	1	3/3/23 17:41	CMR
Dibromochloromethane	ND	0.050	0.033		ND	0.43	0.28	1	3/3/23 17:41	CMR
1,2-Dibromoethane (EDB)	ND	0.050	0.030		ND	0.38	0.23	1	3/3/23 17:41	CMR
1,2-Dichlorobenzene	ND	0.050	0.029		ND	0.30	0.17	1	3/3/23 17:41	CMR
1,3-Dichlorobenzene	ND	0.050	0.028		ND	0.30	0.17	1	3/3/23 17:41	CMR
1,4-Dichlorobenzene	ND	0.050	0.033		ND	0.30	0.20	1	3/3/23 17:41	CMR
Dichlorodifluoromethane (Freon 12)	0.53	0.050	0.049		2.6	0.25	0.24	1	3/3/23 17:41	CMR
1,1-Dichloroethane	ND	0.050	0.044		ND	0.20	0.18	1	3/3/23 17:41	CMR
1,2-Dichloroethane	ND	0.050	0.045		ND	0.20	0.18	1	3/3/23 17:41	CMR
1,1-Dichloroethylene	ND	0.050	0.038		ND	0.20	0.15	1	3/3/23 17:41	CMR
cis-1,2-Dichloroethylene	0.17	0.050	0.036		0.67	0.20	0.14	1	3/3/23 17:41	CMR
trans-1,2-Dichloroethylene	ND	0.050	0.039		ND	0.20	0.16	1	3/3/23 17:41	CMR
1,2-Dichloropropane	ND	0.050	0.027		ND	0.23	0.13	1	3/3/23 17:41	CMR
cis-1,3-Dichloropropene	ND	0.050	0.026		ND	0.23	0.12	1	3/3/23 17:41	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.050	0.049		ND	0.35	0.34	1	3/3/23 17:41	CMR
1,4-Dioxane	ND	0.50	0.042		ND	1.8	0.15	1	3/3/23 17:41	CMR
Ethanol	10	2.0	0.88		19	3.8	1.7	1	3/3/23 17:41	CMR
Ethyl Acetate	ND	0.50	0.25		ND	1.8	0.91	1	3/3/23 17:41	CMR
Ethylbenzene	0.046	0.050	0.029	J	0.20	0.22	0.13	1	3/3/23 17:41	CMR
4-Ethyltoluene	ND	0.050	0.031		ND	0.25	0.15	1	3/3/23 17:41	CMR
Heptane	0.068	0.050	0.032		0.28	0.20	0.13	1	3/3/23 17:41	CMR
Hexachlorobutadiene	ND	0.050	0.041		ND	0.53	0.44	1	3/3/23 17:41	CMR
Hexane	ND	2.0	0.26		ND	7.0	0.92	1	3/3/23 17:41	CMR
2-Hexanone (MBK)	ND	0.050	0.025		ND	0.20	0.10	1	3/3/23 17:41	CMR
Isopropanol	26	2.0	0.34		63	4.9	0.85	1	3/3/23 17:41	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.050	0.039		ND	0.18	0.14	1	3/3/23 17:41	CMR
Methylene Chloride	0.26	0.50	0.23	J	0.91	1.7	0.81	1	3/3/23 17:41	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.050	0.027		ND	0.20	0.11	1	3/3/23 17:41	CMR
Naphthalene	ND	0.050	0.038	U3 V-05	ND	0.26	0.20	1	3/3/23 17:41	CMR
Propene	ND	2.0	0.44		ND	3.4	0.76	1	3/3/23 17:41	CMR
Styrene	ND	0.050	0.026		ND	0.21	0.11	1	3/3/23 17:41	CMR
1,1,2,2-Tetrachloroethane	ND	0.050	0.027		ND	0.34	0.19	1	3/3/23 17:41	CMR

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ANALYTICAL RESULTS

Project Location: 473 President St, Brooklyn,NY
Date Received: 2/17/2023
Field Sample #: 432-25-F1-1A-1R
Sample ID: 23B2104-05
Sample Matrix: Indoor air
Sampled: 2/14/2023 10:15

Sample Description/Location:
Sub Description/Location:
Canister ID: 1947
Canister Size: 6 liter
Flow Controller ID: 3363
Sample Type: 24 hr

Work Order: 23B2104
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg):
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	0.89	0.050	0.038		6.0	0.34	0.26	1	3/3/23 17:41	CMR
Tetrahydrofuran	ND	0.50	0.082		ND	1.5	0.24	1	3/3/23 17:41	CMR
Toluene	0.22	0.050	0.029		0.82	0.19	0.11	1	3/3/23 17:41	CMR
1,2,4-Trichlorobenzene	ND	0.050	0.046		ND	0.37	0.34	1	3/3/23 17:41	CMR
1,1,1-Trichloroethane	ND	0.050	0.039		ND	0.27	0.21	1	3/3/23 17:41	CMR
1,1,2-Trichloroethane	ND	0.050	0.035		ND	0.27	0.19	1	3/3/23 17:41	CMR
Trichloroethylene	0.066	0.050	0.034		0.35	0.27	0.18	1	3/3/23 17:41	CMR
Trichlorofluoromethane (Freon 11)	0.24	0.20	0.059		1.3	1.1	0.33	1	3/3/23 17:41	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.066	0.20	0.056	J	0.51	1.5	0.43	1	3/3/23 17:41	CMR
1,2,4-Trimethylbenzene	0.054	0.050	0.022		0.27	0.25	0.11	1	3/3/23 17:41	CMR
1,3,5-Trimethylbenzene	ND	0.050	0.026		ND	0.25	0.13	1	3/3/23 17:41	CMR
Vinyl Acetate	ND	0.50	0.27		ND	1.8	0.95	1	3/3/23 17:41	CMR
Vinyl Chloride	0.051	0.050	0.045		0.13	0.13	0.12	1	3/3/23 17:41	CMR
m&p-Xylene	0.11	0.10	0.056		0.47	0.43	0.24	1	3/3/23 17:41	CMR
o-Xylene	0.051	0.050	0.026		0.22	0.22	0.11	1	3/3/23 17:41	CMR

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	105	70-130		3/3/23 17:41

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6

ANALYTICAL RESULTS

Project Location: 473 President St, Brooklyn,NY
Date Received: 2/17/2023
Field Sample #: 432-25-F2-IA-2R
Sample ID: 23B2104-06
Sample Matrix: Indoor air
Sampled: 2/14/2023 11:57

Sample Description/Location:
Sub Description/Location:
Canister ID: 1941
Canister Size: 6 liter
Flow Controller ID: 3503
Sample Type: 24 hr

Work Order: 23B2104
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg):
Receipt Vacuum(in Hg):
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	Results (ppbv)	RL (ppbv)	MDL (ppbv)	Flag/Qual	Results (ug/m3)	RL (ug/m3)	MDL (ug/m3)	Dilution	Date/Time Analyzed	Analyst
Acetone	4.9	2.0	1.2		12	4.8	2.9	1	3/3/23 18:10	CMR
Acrolein	0.50	1.0	0.25	J	1.1	2.3	0.57	1	3/3/23 18:10	CMR
Benzene	0.32	0.050	0.038		1.0	0.16	0.12	1	3/3/23 18:10	CMR
Benzyl chloride	ND	0.050	0.044		ND	0.26	0.23	1	3/3/23 18:10	CMR
Bromodichloromethane	ND	0.050	0.035		ND	0.34	0.23	1	3/3/23 18:10	CMR
Bromoform	ND	0.050	0.034		ND	0.52	0.35	1	3/3/23 18:10	CMR
Bromomethane	ND	0.050	0.033		ND	0.19	0.13	1	3/3/23 18:10	CMR
1,3-Butadiene	ND	0.050	0.042		ND	0.11	0.093	1	3/3/23 18:10	CMR
2-Butanone (MEK)	ND	2.0	0.53		ND	5.9	1.6	1	3/3/23 18:10	CMR
Carbon Disulfide	ND	0.50	0.046		ND	1.6	0.14	1	3/3/23 18:10	CMR
Carbon Tetrachloride	0.085	0.050	0.040		0.53	0.31	0.25	1	3/3/23 18:10	CMR
Chlorobenzene	ND	0.050	0.033		ND	0.23	0.15	1	3/3/23 18:10	CMR
Chloroethane	ND	0.050	0.044		ND	0.13	0.12	1	3/3/23 18:10	CMR
Chloroform	ND	0.050	0.048		ND	0.24	0.23	1	3/3/23 18:10	CMR
Chloromethane	0.62	0.10	0.040		1.3	0.21	0.082	1	3/3/23 18:10	CMR
Cyclohexane	0.043	0.050	0.030	J	0.15	0.17	0.10	1	3/3/23 18:10	CMR
Dibromochloromethane	ND	0.050	0.033		ND	0.43	0.28	1	3/3/23 18:10	CMR
1,2-Dibromoethane (EDB)	ND	0.050	0.030		ND	0.38	0.23	1	3/3/23 18:10	CMR
1,2-Dichlorobenzene	ND	0.050	0.029		ND	0.30	0.17	1	3/3/23 18:10	CMR
1,3-Dichlorobenzene	ND	0.050	0.028		ND	0.30	0.17	1	3/3/23 18:10	CMR
1,4-Dichlorobenzene	ND	0.050	0.033		ND	0.30	0.20	1	3/3/23 18:10	CMR
Dichlorodifluoromethane (Freon 12)	0.54	0.050	0.049		2.7	0.25	0.24	1	3/3/23 18:10	CMR
1,1-Dichloroethane	ND	0.050	0.044		ND	0.20	0.18	1	3/3/23 18:10	CMR
1,2-Dichloroethane	ND	0.050	0.045		ND	0.20	0.18	1	3/3/23 18:10	CMR
1,1-Dichloroethylene	ND	0.050	0.038		ND	0.20	0.15	1	3/3/23 18:10	CMR
cis-1,2-Dichloroethylene	0.049	0.050	0.036	J	0.19	0.20	0.14	1	3/3/23 18:10	CMR
trans-1,2-Dichloroethylene	ND	0.050	0.039		ND	0.20	0.16	1	3/3/23 18:10	CMR
1,2-Dichloropropane	ND	0.050	0.027		ND	0.23	0.13	1	3/3/23 18:10	CMR
cis-1,3-Dichloropropene	ND	0.050	0.026		ND	0.23	0.12	1	3/3/23 18:10	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.050	0.049		ND	0.35	0.34	1	3/3/23 18:10	CMR
1,4-Dioxane	ND	0.50	0.042		ND	1.8	0.15	1	3/3/23 18:10	CMR
Ethanol	82	8.0	3.5		150	15	6.6	4	3/7/23 19:00	CMR
Ethyl Acetate	ND	0.50	0.25		ND	1.8	0.91	1	3/3/23 18:10	CMR
Ethylbenzene	0.049	0.050	0.029	J	0.21	0.22	0.13	1	3/3/23 18:10	CMR
4-Ethyltoluene	ND	0.050	0.031		ND	0.25	0.15	1	3/3/23 18:10	CMR
Heptane	0.082	0.050	0.032		0.34	0.20	0.13	1	3/3/23 18:10	CMR
Hexachlorobutadiene	ND	0.050	0.041		ND	0.53	0.44	1	3/3/23 18:10	CMR
Hexane	ND	2.0	0.26		ND	7.0	0.92	1	3/3/23 18:10	CMR
2-Hexanone (MBK)	ND	0.050	0.025		ND	0.20	0.10	1	3/3/23 18:10	CMR
Isopropanol	7.0	2.0	0.34		17	4.9	0.85	1	3/3/23 18:10	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.050	0.039		ND	0.18	0.14	1	3/3/23 18:10	CMR
Methylene Chloride	ND	0.50	0.23		ND	1.7	0.81	1	3/3/23 18:10	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.050	0.027		ND	0.20	0.11	1	3/3/23 18:10	CMR
Naphthalene	0.043	0.050	0.038	J ~~V-05, J~~	0.23	0.26	0.20	1	3/3/23 18:10	CMR
Propene	ND	2.0	0.44		ND	3.4	0.76	1	3/3/23 18:10	CMR
Styrene	ND	0.050	0.026		ND	0.21	0.11	1	3/3/23 18:10	CMR
1,1,2,2-Tetrachloroethane	ND	0.050	0.027		ND	0.34	0.19	1	3/3/23 18:10	CMR

NW 3/27/23

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ANALYTICAL RESULTS

Project Location: 473 President St, Brooklyn,NY
Date Received: 2/17/2023
Field Sample #: 432-25-F2-IA-2R
Sample ID: 23B2104-06
Sample Matrix: Indoor air
Sampled: 2/14/2023 11:57

Sample Description/Location:
Sub Description/Location:
Canister ID: 1941
Canister Size: 6 liter
Flow Controller ID: 3503
Sample Type: 24 hr

Work Order: 23B2104
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg):
Receipt Vacuum(in Hg):
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	0.47	0.050	0.038		3.2	0.34	0.26	1	3/3/23 18:10	CMR
Tetrahydrofuran	ND	0.50	0.082		ND	1.5	0.24	1	3/3/23 18:10	CMR
Toluene	0.24	0.050	0.029		0.89	0.19	0.11	1	3/3/23 18:10	CMR
1,2,4-Trichlorobenzene	ND	0.050	0.046		ND	0.37	0.34	1	3/3/23 18:10	CMR
1,1,1-Trichloroethane	ND	0.050	0.039		ND	0.27	0.21	1	3/3/23 18:10	CMR
1,1,2-Trichloroethane	ND	0.050	0.035		ND	0.27	0.19	1	3/3/23 18:10	CMR
Trichloroethylene	0.043	0.050	0.034	J	0.23	0.27	0.18	1	3/3/23 18:10	CMR
Trichlorofluoromethane (Freon 11)	0.23	0.20	0.059		1.3	1.1	0.33	1	3/3/23 18:10	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.066	0.20	0.056	J	0.51	1.5	0.43	1	3/3/23 18:10	CMR
1,2,4-Trimethylbenzene	0.043	0.050	0.022	J	0.21	0.25	0.11	1	3/3/23 18:10	CMR
1,3,5-Trimethylbenzene	ND	0.050	0.026		ND	0.25	0.13	1	3/3/23 18:10	CMR
Vinyl Acetate	0.39	0.50	0.27	J	1.4	1.8	0.95	1	3/3/23 18:10	CMR
Vinyl Chloride	ND	0.050	0.045		ND	0.13	0.12	1	3/3/23 18:10	CMR
m&p-Xylene	0.12	0.10	0.056		0.51	0.43	0.24	1	3/3/23 18:10	CMR
o-Xylene	0.051	0.050	0.026		0.22	0.22	0.11	1	3/3/23 18:10	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	104	70-130	3/3/23 18:10
4-Bromofluorobenzene (1)	99.0	70-130	3/7/23 19:00

MW 3/27/23