August 23, 2024

Ms. Marnie DeLuke
New York State Department of Environmental Conservation
625 Broadway, 12th Floor
Albany, New York 12233

RE: Site Characterization – Soil Vapor Intrusion Results
473 President Street Off-Site
NYSDEC Site No. C224220A
473 President Street
Brooklyn, New York
HRP Project No. DEC1035.P2

Dear Ms. DeLuke:

HRP Associates, Inc. (HRP) has prepared this letter to summarize the results of the soil vapor intrusion (SVI) investigations associated with the 473 President Street Off-Site Site Characterization (SC). This letter serves as an update to the previous SVI Results letter dated June 13, 2023 and includes all results collected between 2022 to 2024.

The investigation activities were performed in the area surrounding three active Brownfield Cleanup Program (BCP) Sites (referred to hereinafter as "the Sites") located on adjoining parcels in the Gowanus neighborhood of Brooklyn, New York. The Sites include 473 President Street (Site No. C224220), the President Street Portfolio (Site No. C224309) which consists of two non-contiguous parcels located at 469 President Street (E Waste Parcel) and 532 Union Street (Pontone Parcel), and 514 Union Street (Site No. C224318). The Site locations are depicted on **Figure 1.** A Site plan depicting the 473 President Street Off-Site investigation area relative to the BCP Sites is included as **Figure 2**.

The purpose of the SC is to identify potential impacts to off-site soil vapor and groundwater related to chlorinated volatile organic compound (VOC) contamination found at the Sites. Results of groundwater and soil vapor sampling events conducted in October 2022 and January 2023 are summarized in a separate letter to the New York State Department of Environmental Conservation (NYSDEC), dated April 14, 2023. The remainder of this letter describes field activities and results from SVI sampling conducted in off-site properties. Addresses of off-site properties included in SVI investigations have been omitted from this letter to maintain the privacy of property owners. The investigation work described herein was conducted from January 2023 through April 2024. The Off-Site SC investigation is currently on-going. Additional investigation activities and findings will be documented in a future report.

Field Activities

From January 2023 through April 2024, HRP conducted SVI structure sampling at 18 properties within the 473 President Street Off-Site investigation area (**Figure 2**). A total of 34 off-site properties within the investigation area were solicited for SVI structure sampling by NYSDEC and HRP. Solicitations consisted of sending access letters via the United States Postal Service, (completed by NYSDEC), and conducting telephone, email, and door-to-door solicitations (completed by HRP). SVI structure sampling

was completed at each property which granted access to HRP and NYSDEC. The investigation performed at each structure included collection of air samples and the completion of a New York State Department of Health (NYSDOH) Indoor Air Quality Questionnaire and Building Inventory, in accordance with the NYSDOH's *Guidance for Evaluating Soil Vapor Intrusion in the State of New York,* October 2006, HRP's SC Work Plan dated August 29, 2022, and Site-Specific Work Plan Addendum dated September 23, 2022. Most sample events took place during the 2022-2023 heating season (November 15, 2022 – March 31, 2023) and the 2023 – 2024 heating season (November 15, 2023 – March 31, 2024) in accordance with NYSDOH guidance; however, due to property owner availability some sample events took place outside of the heating season. All sampling events taking place outside of the heating season were replicated in the 2023-2024 heating season or are planned to be replicated during the 2024-2025 heating season.

At each property (with the exception of those discussed in the following paragraph), sampling consisted of the collection of one or more sub-slab soil vapor samples, one or more basement indoor air samples (or ground floor indoor air samples if constructed as slab-on-grade), and one or more first-floor samples. For QA/QC purposes, duplicate sub-slab soil vapor samples were collected at properties 13, 16, 18, and 26. Sub-slab soil vapor points were installed immediately beneath the building slab (typically 4-8 inches) using a handheld hammer drill and a half-inch drill bit. Prior to sampling each sub-slab soil vapor point, a leak test was performed using a helium tracer gas and a minimum of three tubing volumes of air were purged. Indoor and outdoor ambient air samples were collected simultaneously with sub-slab soil vapor samples and placed at a height corresponding to the average breathing level (i.e. approximately 5 feet above the ground surface). Outdoor ambient air samples were collected at a minimum frequency of one sample per day. All SVI structure samples were collected using 6-liter summa canisters fitted with 8-hour or 24-hour regulators, depending on whether the structure was used for commercial or residential purposes. All samples were analyzed for VOCs via EPA Method TO-15. Air samples (soil vapor, indoor air, and outdoor air) were submitted to Pace Analytical (Pace), an Environmental Laboratory Approval Program (ELAP) laboratory under chain of custody procedures.

Due to building conditions, sub-slab soil vapor samples were omitted during the SVI investigations at properties 3, 13, and 28 due to presence of shallow groundwater and other building-specific circumstances. In each case, SVI structure sampling was limited to the collection of indoor and outdoor ambient air samples.

At properties 1A, 1B, 1C, 2, 16, and 18, multiple SVI structure sampling events were completed to confirm results from initial sampling events. Additional sample events were conducted at a property if the source of indoor air contamination was not identified during the initial sample event (1A, 1B, 1C, 16), or if the initial sample event was conducted outside of the heating season (18). A second sample event was conducted at property 2 to monitor VOC concentrations in soil vapor and indoor air during the 2023-2024 heating season after SVI was identified during the initial 2022-2023 heating season sampling event.

Analytical Results

Sub-slab soil vapor and indoor air analytical results from samples collected during the 2022 – 2023 and the 2023 – 2024 heating seasons were compared to the May 2017 and the February 2024 New York State Department of Health (NYSDOH) Decision Matrices A, B, C, D, E and F (Decision Matrices). The

Decision Matrices recommend actions based on the concentrations of VOCs in indoor air and sub-slab soil vapor samples. The 8 chlorinated VOCs included in Decision Matrices A, B, and C are tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethene (1,1-DCE), carbon tetrachloride, methylene chloride, and vinyl chloride. The 13 petroleum-related VOCs included in Decision Matrices D, E, and F are benzene, ethylbenzene, naphthalene, cyclohexane, isooctane (2,2,4-trimethylpentane), 1,2,4-trimethylbenzene (1,2,4-TMB), 1,3,5-trimethylbenzene (1,3,5-TMB), o-xylene, m-xylene, p-xylene, heptane, hexane, and toluene. Recommended actions include "No Further Action," "Identify Source(s) and/or Resample or Mitigate," "Monitor," and "Mitigate."

Additionally, indoor air sampling results were compared to Air Guidance Values (AGVs) and Immediate Action Levels identified in NYSDOH's *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, October 2006, and subsequent updates. NYSDOH provides AGVs for the chlorinated VOCs PCE, TCE, and methylene chloride, and Immediate Action Levels for PCE and TCE.

Table 1 below summarizes recommendations for each property based on sampling data when compared to the NYSDOH Decision Matrices and whether chlorinated VOCs were detected in indoor air at concentrations exceeding NYSDOH AGVs or Immediate Action Levels. SVI analytical results for each property are summarized in **Table 2**, attached to the end of this letter.

Table 1 – Off-Site SVI Investigation Results

Property	NYSDOH Decision Matrix Recommendation	Indoor Air VOC Concentrations Exceed Air Guidance Values?	Indoor Air VOC Concentrations Exceed Immediate Action Levels?	VOC Triggering Recommend Action
1A	Mitigate	No	No	TCE
1B	No Further Action	No	No	---
1C	Monitor	No	No	Carbon Tetrachloride
2	Mitigate	No	No	Benzene, cis-1,2-DCE, PCE, TCE, Vinyl Chloride
3	Mitigate	Yes	Yes	cis-1,2-DCE, PCE, TCE, Vinyl Chloride
5	Mitigate	Yes	No	cis-1,2-DCE, TCE
7	Mitigate	Yes	No	TCE
13	No Further Action	No	No	---
15	No Further Action	No	No	---
16	Identify Source(s) and Resample or Mitigate	No	No	Heptane, TCE
17	No Further Action	No	No	---
18	No Further Action	No	No	---
21	Mitigate	No	No	TCE
23	No Further Action	No	No	---
24	No Further Action	No	No	---
26	No Further Action	No	No	---
27	No Further Action	No	No	---

Property	NYSDOH Decision Matrix Recommendation	Indoor Air VOC Concentrations Exceed Air Guidance Values?	Indoor Air VOC Concentrations Exceed Immediate Action Levels?	VOC Triggering Recommend Action
28	Identify Source(s) or Resample or Mitigate	No	No	Toluene
29	Mitigate	No	No	TCE
30	No Further Action	No	No	---

Notes:

- Where multiple VOCs triggered action, the most conservative action with respect to human health is listed in the "NYSDOH Decision Matrix Recommendation" column of **Table 1** and the "Final Action Recommended" column in **Table 2**.
- Where multiple sample events were completed at a property, yielding different Decision Matrix recommendations, the final "NYSDOH Decision Matrix Recommendation" listed in **Table 1** reflects the most conservative action with respect to human health.
- VOCs were not detected at concentrations exceeding AGVs at Properties 2, 21, and 29 however mitigation is recommended by the Decision Matrices based on VOC concentrations in sub-slab soil vapor and indoor air (see **Table 2**).

At properties 16 and 28, VOCs were detected at concentrations at which the NYSDOH Decision Matrices recommend to "Identify Source(s) and/or Resample or Mitigate." Upon review of the building chemical inventory and sample results, it was determined that the sources of indoor air contamination at each property were related to chemical product storage and commercial operations at the properties and were not related to SVI. This was confirmed by repeated sample events at property 16. An additional sample event is planned for property 28 during the 2024-2025 heating season.

Data Validation and Usability

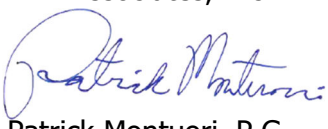
Data validation of the SVI structure sampling analytical results was completed by Nancy Weaver of Environmental Data Services, Inc. The Data Usability Summary Reports (DUSRs) for the analytical results indicate that no data was deemed to be unusable.

Future Activities

The NYSDEC and NYSDOH will further evaluate the SVI structure sampling results collected as part of this investigation. The NYSDEC and NYSDOH may recommend continued monitoring be performed or that mitigation systems be installed in some of the properties sampled. Based on sampling results collected to date, the NYSDEC and NYSDOH may recommend solicitation of additional properties for SVI structure sampling during the 2024-2025 heating season.

If you have any questions or require additional information, please feel free to contact HRP at (518) 877-7101.

Sincerely,
HRP Associates, Inc.



Patrick Montuori, P.G.
Project Manager

Attachments:
Figures
Table 2

FIGURES

USGS Quadrangle Information
Quad ID: 40073-F8
Name: Brooklyn, New York
Date Rev: 1995
Date Pub: 1999

Figure 1
Site Location
473 President Street Off-Site
Site: C224220A
473 Presidents Street
Brooklyn, New York
HRP # DEC1035.P2
Scale 1" = 2,000'

HRP
MOVE YOUR ENVIRONMENT FORWARD
ONE FAIRCHILD SQUARE
SUITE 110
CLIFTON PARK, NY 12065
(518) 877-7101
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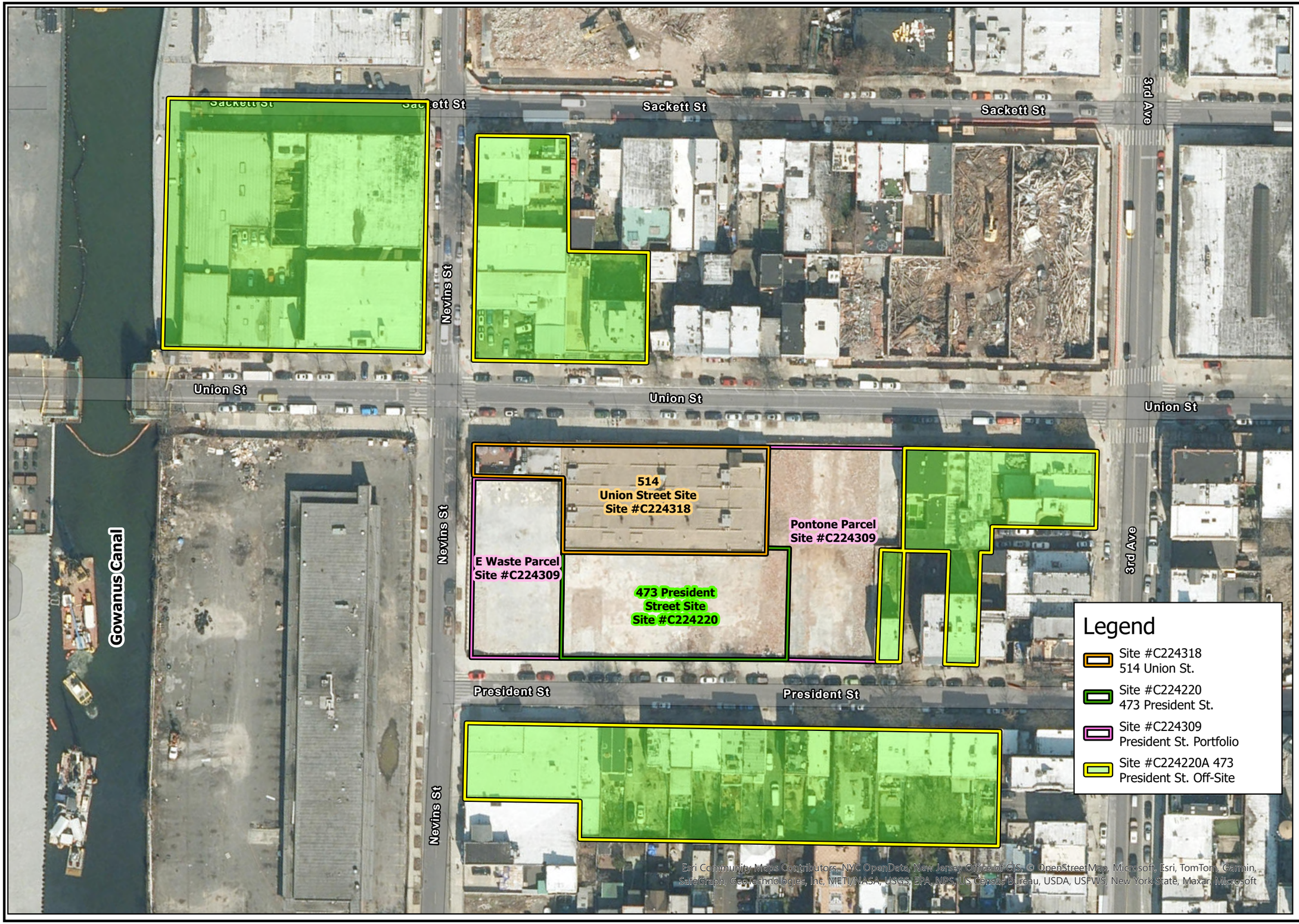

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Designed By:	Drawn By:	Reviewed By:
RL	BOB	PWM

Issue Date:	Project No:	Sheet Size:
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Site Plan

473 President Street Off-Site
Site #C224220A
473 President Street
Brooklyn, new York

Figure No.

2

TABLE 2

Table 2
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

Property 1A									
Date Collected:	**12/13/2023**	**12/13/2023**	**12/13/2023**	**12/13/2023**	**12/13/2023**	**NYSDOH Air Guidance Values**	**NYSDOH Immediate Action Levels**	**NYSDOH May 2017 / February 2024 Matrix Recommendations**	**Final Action Recommended**
Sample Locations:	**Sub-Slab Soil Vapor Concentrations**	**Sub-Slab Soil Vapor Concentrations**	**First Floor Indoor Air Concentrations**	**First Floor Indoor Air Concentrations**	**Outdoor Air Concentrationss**				
Volatile Organic Compounds (µg/m³)									
1,1,1-Trichloroethane	**0.63**	**0.64**	< 0.059	< 0.059	< 0.059	---	---	No Further Action	**Monitor**
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	**0.67**	**0.64**	**0.56**	**0.57**	**0.60**	---	---	---	
1,2,4-Trimethylbenzene	**4.6**	**4.1**	**2.3**	**2.9**	**0.31**	---	---	No Further Action	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	< 0.28	< 0.28	**0.13**	**0.14**	**0.14**	---	---	---	
1,2-Dichloroethane	< 0.15	< 0.15	**0.14**	**0.13**	**0.093**	---	---	---	
1,2-Dichloropropane	< 0.13	< 0.13	< 0.044	**0.064**	< 0.044	---	---	---	
1,3,5-Trimethylbenzene	**1.6**	**1.4**	**0.66**	**0.84**	**0.099**	---	---	No Further Action	
2-Butanone (MEK)	**5.0**	**3.8**	**5.4**	**6.1**	< 1.2	---	---	---	
2-Hexanone (MBK)	< 0.18	< 0.18	**0.26**	< 0.062	**0.071**	---	---	---	
4-Ethyltoluene	**1.1**	**1.1**	**0.43**	**0.39**	**0.089**	---	---	---	
4-Methyl-2-pentanone (MIBK)	< 0.22	< 0.22	**2.0**	**2.9**	< 0.076	---	---	---	
Acetone	**25**	**39**	**24**	**26**	**6.5**	---	---	---	
Benzene	**1.1**	**0.86**	**1.7**	**1.5**	**0.87**	---	---	No Further Action	
Bromomethane	< 0.21	< 0.21	**0.095**	**0.079**	< 0.072	---	---	---	
Carbon Disulfide	**5.4**	**27**	**0.34**	**0.43**	< 0.21	---	---	---	
Carbon Tetrachloride	**26**	**0.31**	**0.55**	**0.53**	**0.51**	---	---	**Monitor**	
Chloroethane	**0.33**	< 0.17	< 0.058	< 0.058	< 0.058	---	---	---	
Chloroform	**33**	**4.7**	**0.61**	**0.82**	**0.12**	---	---	---	
Chloromethane	**0.50**	**0.35**	**0.98**	**0.96**	**0.98**	---	---	---	
cis-1,2-Dichloroethene	< 0.12	**7.4**	**0.18**	**0.20**	< 0.043	---	---	**Monitor**	
Cyclohexane	**2.5**	**2.7**	**1.1**	**1.3**	**0.14**	---	---	No Further Action	
Dichlorodifluoromethane (Freon 12)	**2.4**	**2.6**	**2.8**	**2.9**	**2.9**	---	---	---	
Ethanol	**81**	**82**	**310**	**450**	**11**	---	---	---	
Ethyl Acetate	< 1.0	**1.2**	< 0.36	**2.2**	**0.73**	---	---	---	
Ethylbenzene	**0.68**	**0.78**	**1.1**	**1.3**	**0.39**	---	---	No Further Action	
Heptane	**0.97**	**1.4**	**1.9**	**2.3**	**0.70**	---	---	No Further Action	
Hexane	< 4.7	< 4.7	**3.3**	**4.1**	< 1.6	---	---	No Further Action	
Isopropanol	**190**	**200**	**83**	**100**	**3.3**	---	---	---	
m&p-Xylene	**2.2**	**2.5**	**3.8**	**4.3**	**1.1**	---	---	No Further Action	
Methyl tert-Butyl Ether (MTBE)	**0.19**	< 0.18	**0.063**	**0.068**	< 0.062	---	---	---	
Methylene Chloride	< 0.93	< 0.93	**1.2**	**1.2**	**0.45**	60	---	No Further Action	
Naphthalene	< 0.35	< 0.35	**0.81**	**1.0**	**0.18**	---	---	No Further Action	
o-Xylene	**0.76**	**0.89**	**1.5**	**1.7**	**0.43**	---	---	No Further Action	
Propene	< 1.9	**24**	< 0.65	< 0.65	< 0.65	---	---	---	
Styrene	**0.26**	**0.26**	**0.20**	**0.23**	< 0.079	---	---	---	
Tetrachloroethene	**6.9**	**12**	**3.4**	**4.4**	**0.44**	30	300	No Further Action	
Tetrahydrofuran	**4.0**	**3.4**	**3.6**	**4.4**	< 0.21	---	---	---	
Toluene	**3.2**	**3.5**	**7.1**	**8.7**	**1.6**	---	---	No Further Action	
trans-1,2-Dichloroethene	< 0.13	**0.37**	< 0.045	< 0.045	< 0.045	---	---	---	
Trichloroethene	**0.90**	**4.5**	**0.96**	**1.0**	< 0.076	2	20	**Identify Source(s) and Resample or Mitigate**	
Trichlorofluoromethane (Freon 11)	**1.3**	**1.2**	**1.6**	**1.6**	**1.5**	---	---	---	
Vinyl Acetate	**2.2**	**3.5**	**4.9**	**4.6**	**1.1**	---	---	---	

Legend:

50	Decision Matrices recommend a specific action based on parameter concentrations
25	Parameter was detected at concentrations exceeding the NYSDOH Immediate Action Levels
5.0	Parameter was detected at concentrations exceeding the NYSDOH Air Guidance Values
1.0	Parameter was detected at concentrations exceeding the laboratory reporting limit
< 1.0	Parameter was not detected at concentrations exceeding the laboratory reporting limit

Notes:
All concentrations in micrograms per cubic meter (µg/m³)
Recommendations based on May 2017 and February 2024 NYSDOH Soil Vapor/Indoor Air Matrices (Decision Matrices)
E = Reported result is estimated; value reported over verified calibration range
J = Detected but below the Reporting Limit; therefore, result is an estimated concentration
--- = Standard Not Promulgated

Table 2
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

Property 1A									
Date Collected:	**02/20/2024**	**02/20/2024**	**02/20/2024**	**02/20/2024**	**02/20/2024**	**NYSDOH Air Guidance Values**	**NYSDOH Immediate Action Levels**	**NYSDOH May 2017 / February 2024 Matrix Recommendations**	**Final Action Recommended**
Sample Locations:	**Sub-Slab Soil Vapor Concentrations**	**First Floor Indoor Air Concentrations**	**Sub-Slab Soil Vapor Concentrations**	**First Floor Indoor Air Concentrations**	**Outdoor Air**				
Volatile Organic Compounds (µg/m³)									
1,1,2-Trichlorotrifluoroethane (Freon 113)	**0.54 J**	**0.51 J**	**0.52 J**	**0.58 J**	**0.61 J**	---	---	---	**Mitigate**
1,2,4-Trimethylbenzene	**0.81**	**7.5**	**0.86**	**11**	**0.42**	---	---	**Identify Sources or Resample or Mitigate**	
1,2-Dichloroethane	< 0.40	**0.11 J**	< 0.40	**0.096 J**	< 0.16	---	---	---	
1,2-Dichlorotetrafluoroethane (Freon 114)	< 0.70	**0.12 J**	< 0.70	**0.15 J**	**0.15 J**	---	---	---	
1,3 Butadiene	**1.1**	< 0.077	< 0.22	< 0.077	< 0.088	---	---	---	
1,3,5-Trimethylbenzene	< 0.49	**1.9**	< 0.49	**2.5**	< 0.20	---	---	No Further Action	
1-Ethyl-4-methyl-benzene	< 0.49	**1.7**	**0.22 J**	**0.75**	**0.11 J**	---	---	---	
2-Butanone (MEK)	< 12	**7.4**	< 12	**3.7 J**	< 4.7	---	---	---	
2-Hexanone (Methyl butyl ketone/MBK)	< 0.41	< 0.14	**0.20 J**	< 0.14	< 0.16	---	---	---	
Acetone	**200**	**41**	**24**	**51**	**12**	---	---	---	
Benzene	**40**	**2.7**	**0.80**	**2.5**	**1.0**	---	---	No Further Action	
Carbonisulfide	**29**	< 1.1	**2.8 J**	**0.21 J**	< 1.2	---	---	---	
Carbon tetrachloride	< 0.63	**0.29**	**23**	**0.39**	**0.43**	---	---	**Monitor**	
Chloroethane	< 0.26	**0.096**	**0.25 J**	< 0.092	< 0.11	---	---	---	
Chloroform	**2.1**	**0.22**	**20**	**0.17**	**0.13 J**	---	---	---	
Chloromethane	< 0.41	**1.2**	< 0.41	**1.2**	**1.1**	---	---	---	
cis-1,2-Dichloroethene	**0.44**	**0.072 J**	< 0.40	< 0.14	**0.092 J**	---	---	No Further Action	
Cyclohexane	**0.87**	**1.7**	**1.1**	**1.5**	**0.31**	---	---	No Further Action	
Dichlorodifluoromethane	**2.5**	**2.5**	**2.6**	**2.4**	**2.4**	---	---	---	
Ethanol	**40**	**1100E**	**22**	**410E**	**26**	---	---	---	
Ethyl Acetate	**3.6**	**16**	< 3.6	< 1.3	**1.2 J**	---	---	---	
Ethylbenzene	**1.0**	**6.5**	**0.95**	**8.4**	**0.50**	---	---	No Further Action	
Heptane	**0.86**	**6.0**	**1.1**	**5.1**	**0.53**	---	---	No Further Action	
Hexane	< 14	**4.2 J**	< 14	**3.6 J**	< 5.6	---	---	No Further Action	
Isopropyl Alcohol	**300E**	**220E**	**110**	**46**	**12**	---	---	---	
m,p-Xylene	**3.0**	**17**	**2.9**	**26**	**1.4**	---	---	**Identify Sources or Resample or Mitigate**	
Methyl isobutyl ketone (MIBK)	< 0.41	**18**	< 0.41	**6.0**	< 0.16	---	---	---	
Methylene chloride	< 3.5	**2.6**	< 3.5	**2.0**	**0.69 J**	60	---	No Further Action	
Methyltertbutyl ether	**0.22 J**	< 0.13	< 0.36	< 0.13	< 0.14	---	---	---	
Naphthalene	< 0.52	**2.0**	< 0.52	**1.5**	**0.19 J**	---	---	No Further Action	
o-Xylene	**0.82**	**5.7**	**0.88**	**8.1**	**0.51**	---	---	No Further Action	
Styrene	**0.37 J**	**0.32**	**0.37 J**	**0.30**	< 0.17	---	---	---	
Tetrachloroethene	**5.0**	**5.9**	**13**	**4.0**	**0.62**	30	300	No Further Action	
Tetrahydrofuran	< 2.9	**3.4**	< 2.9	**2.4**	< 1.2	---	---	---	
Toluene	**17**	**12**	**6.3**	**11**	**2.5**	---	---	No Further Action	
Trichloroethene	**12**	**1.9**	**0.67**	**1.2**	**0.40**	2	20	**Mitigate**	
Trichlorofluoromethane	**1.1 J**	**1.2**	**1.2 J**	**1.2**	**1.3**	---	---	---	
Vinyl acetate	**1.5 J**	**3.9**	**2.3 J**	**4.1**	**1.1 J**	---	---	---	

Legend:

50	Decision Matrices recommend a specific action based on parameter concentrations
25	Parameter was detected at concentrations exceeding the NYSDOH Immediate Action Levels
5.0	Parameter was detected at concentrations exceeding the NYSDOH Air Guidance Values
1.0	Parameter was detected at concentrations exceeding the laboratory reporting limit
< 1.0	Parameter was not detected at concentrations exceeding the laboratory reporting limit

Notes:
All concentrations in micrograms per cubic meter (µg/m³)
Recommendations based on May 2017 and February 2024 NYSDOH Soil Vapor/Indoor Air Matrices (Decision Matrices)
E = Reported result is estimated; value reported over verified calibration range
J = Detected but below the Reporting Limit; therefore, result is an estimated concentration
--- = Standard Not Promulgated

Table 2
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

Property 1B								
Date Collected:	**12/12-12/13/2023**	**12/12-12/13/2023**	**12/12-12/13/2023**	**12/12-12/13/2023**	**NYSDOH Air Guidance Values**	**NYSDOH Immediate Action Levels**	**NYSDOH May 2017 / February 2024 Matrix Recommendations**	**Final Action Recommended**
Sample Locations:	**Sub-Slab Soil Vapor Concentrations**	**First Floor Indoor Air Concentrations**	**Second Floor Indoor Air Concentrations**	**Outdoor Air Concentrations**				
Volatile Organic Compounds (µg/m³)								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	**0.78**	**1.3**	**0.78**	**0.58**	---	---	---	**No Further Action**
1,1-Dichloroethene	< 0.11	< 0.039	**0.11**	< 0.039	---	---	No Further Action	
1,2,4-Trimethylbenzene	**2.4**	**0.50**	**0.81**	**0.26**	---	---	No Further Action	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	< 0.28	**0.14**	**0.12**	**0.12**	---	---	---	
1,2-Dichloroethane	< 0.15	**0.11**	**0.21**	**0.12**	---	---	---	
1,2-Dichloropropane	< 0.13	< 0.044	< 0.044	**0.052**	---	---	---	
1,3,5-Trimethylbenzene	**0.72**	**0.15**	**0.28**	< 0.088	---	---	No Further Action	
2-Butanone (MEK)	**3.8**	**3.3**	**3.3**	**1.2**	---	---	---	
2-Hexanone (MBK)	< 0.18	**0.23**	**0.22**	**0.13**	---	---	---	
4-Ethyltoluene	**0.34**	**0.10**	**0.16**	< 0.075	---	---	---	
4-Methyl-2-pentanone (MIBK)	< 0.22	**0.67**	< 0.076	< 0.076	---	---	---	
Acetone	**24**	**16**	**23**	**7.7**	---	---	---	
Benzene	**2.7**	**0.69**	**0.66**	**0.93**	---	---	No Further Action	
Carbon Tetrachloride	**3.3**	**0.57**	**0.55**	**0.59**	---	---	No Further Action	
Chloroform	**4.5**	**0.26**	**0.48**	**0.14**	---	---	---	
Chloromethane	**0.17**	**0.88**	**0.91**	**1.0**	---	---	---	
cis-1,2-Dichloroethene	< 0.12	**0.14**	**0.089**	**0.20**	---	---	No Further Action	
Cyclohexane	**0.19**	**0.32**	**0.31**	**0.22**	---	---	No Further Action	
Dichlorodifluoromethane (Freon 12)	**3.5**	**2.2**	**2.6**	**2.8**	---	---	---	
Ethanol	**150**	**95**	**1300**	**16**	---	---	---	
Ethyl Acetate	< 1.0	**1.1**	**1.9**	**0.54**	---	---	---	
Ethylbenzene	**0.67**	**0.80**	**0.93**	**0.27**	---	---	No Further Action	
Heptane	**0.89**	**1.0**	**0.63**	**0.35**	---	---	No Further Action	
Isopropanol	**280**	**8.5**	**21**	**3.3**	---	---	---	
m&p-Xylene	**1.7**	**2.4**	**2.8**	**0.69**	---	---	No Further Action	
Methyl tert-Butyl Ether (MTBE)	< 0.18	< 0.062	< 0.062	**0.068**	---	---	---	
Methylene Chloride	< 0.93	**0.53**	**0.81**	**0.65**	60	---	No Further Action	
Naphthalene	< 0.35	**0.31**	**1.6**	< 0.12	---	---	No Further Action	
o-Xylene	**0.56**	**0.88**	**1.1**	**0.27**	---	---	No Further Action	
Styrene	**0.25**	**0.21**	**0.37**	< 0.080	---	---	---	
Tetrachloroethene	**1.5**	**0.71**	**0.53**	**0.54**	30	300	No Further Action	
Tetrahydrofuran	**3.3**	**0.57**	**0.90**	< 0.21	---	---	---	
Toluene	**3.4**	**4.5**	**3.2**	**1.3**	---	---	No Further Action	
trans-1,2-Dichloroethene	< 0.13	**0.053**	**0.053**	< 0.045	---	---	---	
Trichloroethene	**0.96**	**0.50**	**0.30**	**0.63**	2	20	No Further Action	
Trichlorofluoromethane (Freon 11)	**1.6**	**1.8**	**1.5**	**1.6**	---	---	---	
Vinyl Acetate	**1.3**	**1.9**	**2.4**	**1.5**	---	---	---	
Vinyl Chloride	< 0.12	< 0.041	**0.062**	< 0.041	---	---	No Further Action	

Legend:

50	Decision Matrices recommend a specific action based on parameter concentrations
25	Parameter was detected at concentrations exceeding the NYSDOH Immediate Action Levels
5.0	Parameter was detected at concentrations exceeding the NYSDOH Air Guidance Values
1.0	Parameter was detected at concentrations exceeding the laboratory reporting limit
< 1.0	Parameter was not detected at concentrations exceeding the laboratory reporting limit

Notes:
All concentrations in micrograms per cubic meter (µg/m³)
Recommendations based on May 2017 and February 2024 NYSDOH Soil Vapor/Indoor Air Matrices (Decision Matrices)
E = Reported result is estimated; value reported over verified calibration range
J = Detected but below the Reporting Limit; therefore, result is an estimated concentration
--- = Standard Not Promulgated

Table 2
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

Property 1B								
Date Collected:	**2/19-2/20/2024**	**2/19-2/20/2024**	**2/19-2/20/2024**	**2/19-2/20/2024**	**NYSDOH Air Guidance Values**	**NYSDOH Immediate Action Levels**	**NYSDOH May 2017 / February 2024 Matrix Recommendations**	**Final Action Recommended**
Sample Locations:	**Sub-Slab Soil Vapor Concentrations**	**First Floor Indoor Air Concentrations**	**Second Floor Indoor Air Concentrations**	**Outdoor Air Concentrations**				
Volatile Organic Compounds (µg/m³)								
1,1,2-Trichlorotrifluoroethane (Freon 113)	**0.54 J**	**0.61 J**	**0.60 J**	**0.55 J**	---	---	---	**No Further Action**
1,2,4-Trimethylbenzene	**0.80**	**0.50**	**0.73**	**0.19**	---	---	No Further Action	
1,2-Dichloroethane	< 0.40	**0.073 J**	**0.13 J**	**0.073 J**	---	---	---	
1,2-Dichlorotetrafluoroethane (Freon 114)	< 0.70	**0.12 J**	**0.15 J**	**0.13 J**	---	---	---	
1,3,5-Trimethylbenzene	< 0.49	**0.14 J**	**0.22**	< 0.17	---	---	No Further Action	
1-Ethyl-4-methyl-benzene	< 0.49	**0.11 J**	**0.11 J**	< 0.17	---	---	---	
2-Hexanone (Methyl butyl ketone/MBK)	< 0.41	**0.066 J**	**0.37**	< 0.14	---	---	---	
Acetone	**12**	**11**	**18**	**4.3**	---	---	---	
Benzene	**0.55**	**0.66**	**0.71**	**0.63**	---	---	No Further Action	
Bromomethane	**0.50**	< 0.14	**0.19**	< 0.14	---	---	---	
Carbonisulfide	**0.60 J**	< 1.1	< 1.1	< 1.1	---	---	---	
Carbon tetrachloride	**3.1**	**0.43**	**0.44**	**0.43**	---	---	No Further Action	
Chloroform	**4.0**	**0.21**	**0.28**	**0.092 J**	---	---	---	
Chloromethane	< 0.41	**0.97**	**1.2**	**1.1**	---	---	---	
cis-1,2-Dichloroethene	< 0.40	< 0.14	< 0.14	**0.075 J**	---	---	No Further Action	
Cyclohexane	< 0.34	**0.25**	**0.25**	**0.12 J**	---	---	No Further Action	
Dichlorodifluoromethane	**2.4**	**2.9**	**2.4**	**2.3**	---	---	---	
Ethanol	**17**	**24**	**110E**	**9.7**	---	---	---	
Ethyl Acetate	**4.5**	**0.98 J**	**0.98 J**	< 1.3	---	---	---	
Ethylbenzene	**0.92**	**0.84**	**1.1**	**0.32**	---	---	---	
Heptane	**0.60**	**1.0**	**0.83**	**0.32**	---	---	No Further Action	
Isopropyl Alcohol	**16**	**4.3**	**10**	< 3.4	---	---	---	
m,p-Xylene	**2.8**	**2.4**	**3.2**	**0.66**	---	---	No Further Action	
Methyl isobutyl ketone (MIBK)	**0.43**	**0.49**	**0.79**	< 0.14	---	---	---	
Methylene chloride	< 3.5	**0.46 J**	**0.50 J**	**0.48 J**	60	---	No Further Action	
Naphthalene	< 0.52	**0.56**	**1.5**	**0.30**	---	---	No Further Action	
o-Xylene	**0.85**	**0.80**	**1.0**	**0.22**	---	---	No Further Action	
Propene	< 6.9	**1.4 J**	**3.4**	< 2.4	---	---	---	
Styrene	**0.35 J**	**0.12 J**	**0.23**	< 0.15	---	---	---	
Tetrachloroethene	**0.92**	**0.23 J**	**0.24**	< 0.24	30	300	No Further Action	
Tetrahydrofuran	< 2.9	**0.50 J**	**0.80 J**	< 1.0	---	---	---	
Toluene	**6.8**	**2.7**	**2.9**	**0.93**	---	---	No Further Action	
trans-1,2-Dichloroethene	< 0.40	**0.089 J**	< 0.14	< 0.14	---	---	---	
Trichloroethene	**1.5**	**0.22**	**0.27**	**0.29**	2	20	No Further Action	
Trichlorofluoromethane	**1.1 J**	**1.1**	**1.2**	**1.1**	---	---	---	
Vinyl acetate	**1.6 J**	**0.83 J**	**1.9 J**	**0.54 J**	---	---	---	

Legend:

50	Decision Matrices recommend a specific action based on parameter concentrations
25	Parameter was detected at concentrations exceeding the NYSDOH Immediate Action Levels
5.0	Parameter was detected at concentrations exceeding the NYSDOH Air Guidance Values
1.0	Parameter was detected at concentrations exceeding the laboratory reporting limit
< 1.0	Parameter was not detected at concentrations exceeding the laboratory reporting limit

Notes:
All concentrations in micrograms per cubic meter (µg/m³)
Recommendations based on May 2017 and February 2024 NYSDOH Soil Vapor/Indoor Air Matrices (Decision Matrices)
E = Reported result is estimated; value reported over verified calibration range
J = Detected but below the Reporting Limit; therefore, result is an estimated concentration
--- = Standard Not Promulgated

Table 2
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

Property 1C								
Date Collected:	**11/29/2023**	**11/29/2023**	**11/29/2023**	**11/29/2023**	**NYSDOH Air Guidance Values**	**NYSDOH Immediate Action Levels**	**NYSDOH May 2017 / February 2024 Matrix Recommendations**	**Final Action Recommended**
Sample Locations:	**Sub-Slab Soil Vapor Concentrations**	**Basement Indoor Air Concentrationss**	**First Floor Indoor Air Concentrations**	**Outdoor Air Concentrations**				
Volatile Organic Compounds (µg/m³)								
1,1,2-Trichlorotrifluoroethane (Freon 113)	**0.58 J**	**0.49 J**	**1.1**	**0.50 J**	---	---	---	**Monitor**
1,1-Dichloroethene	< 0.79	**0.15**	< 0.14	< 0.14	---	---	No Further Action	
1,2,4-Trimethylbenzene	**4.7**	**0.42**	**0.35**	< 0.17	---	---	No Further Action	
1,2-Dichloroethane	< 0.81	< 0.14	< 0.14	**0.082 J**	---	---	---	
1,2-Dichlorotetrafluoroethane (Freon 114)	< 1.4	< 0.24	**0.13 J**	**0.13 J**	---	---	---	
1,3,5-Trimethylbenzene	**1.4**	**0.13 J**	**0.14 J**	**0.099 J**	---	---	No Further Action	
1-Ethyl-4-methyl-benzene	**1.0**	< 0.17	**0.079 J**	**0.086 J**	---	---	---	
2-Butanone (MEK)	< 24	< 4.1	< 4.1	**1.7 J**	---	---	---	
2-Hexanone (Methyl butyl ketone/MBK)	**0.44 J**	**0.18**	**0.27**	**0.24**	---	---	---	
Acetone	**28**	**8.5**	**10**	**6.9**	---	---	---	
Benzene	**0.58 J**	**0.32**	**0.66**	**0.63**	---	---	No Further Action	
Bromomethane	< 0.78	< 0.14	< 0.14	**0.087 J**	---	---	---	
Carbon disulfide	< 6.2	< 1.1	< 1.1	**0.60 J**	---	---	---	
Carbon tetrachloride	**53**	**0.58**	**0.67**	**0.47**	---	---	**Monitor**	
Chloroethane	< 0.53	**0.092**	< 0.092	< 0.092	---	---	---	
Chloroform	**23**	**0.11 J**	**0.092 J**	**0.065 J**	---	---	---	
Chloromethane	< 0.83	**0.72**	**0.83**	**0.92**	---	---	---	
cis-1,2-Dichloroethene	< 0.79	**0.11 J**	**0.20**	**0.18**	---	---	No Further Action	
Cyclohexane	< 0.69	**0.29**	**1.9**	**0.28**	---	---	No Further Action	
Dichlorodifluoromethane	**2.7**	**2.4**	**5.7**	**2.5**	---	---	---	
Ethanol	**42**	**6.9**	**12**	**10**	---	---	---	
Ethyl Acetate	< 7.2	**1.1 J**	**2.1**	**0.52 J**	---	---	---	
Ethylbenzene	**0.97**	**1.1**	**0.32**	**0.28**	---	---	No Further Action	
Heptane	**5.6**	**1.6**	**1.4**	**0.97**	---	---	No Further Action	
Hexane	< 28	**1.8 J**	< 4.9	< 4.9	---	---	No Further Action	
Isopropyl Alcohol	**120**	**4.9**	**7.2**	**1.9 J**	---	---	---	
m,p-Xylene	**2.8**	**3.3**	**0.90**	**0.70**	---	---	No Further Action	
Methyl isobutyl ketone (MIBK)	**0.66 J**	< 0.14	< 0.14	< 0.14	---	---	---	
Methylene chloride	< 6.9	**0.57 J**	**0.50 J**	**0.51 J**	60	---	No Further Action	
Methyltertbutyl ether	< 0.72	**0.11 J**	< 0.13	**0.065 J**	---	---	---	
Naphthalene	< 1.0	**0.12 J**	**0.12 J**	< 0.18	---	---	No Further Action	
o-Xylene	**0.92**	**1.0**	**0.34**	**0.35**	---	---	No Further Action	
Propene	< 14	< 2.4	< 2.4	**1.7 J**	---	---	---	
Styrene	**0.53 J**	< 0.15	< 0.15	< 0.15	---	---	---	
Tetrachloroethene	**8.3**	**0.82**	**0.68**	**0.56**	30	300	No Further Action	
Tetrahydrofuran	**5.4 J**	**0.30 J**	< 1.0	**0.27 J**	---	---	---	
Toluene	**2.9**	**5.2**	**1.4**	**1.2**	---	---	No Further Action	
Trichloroethene	**2.4**	**0.49**	**0.45**	**0.61**	2	20	No Further Action	
Trichlorofluoromethane	**1.2 J**	**1.4**	**1.5**	**1.2**	---	---	---	
Vinyl acetate	< 14	**1.8 J**	**1.5 J**	**2.2 J**	---	---	---	

Legend:

50	Decision Matrices recommend a specific action based on parameter concentrations
25	Parameter was detected at concentrations exceeding the NYSDOH Immediate Action Levels
5.0	Parameter was detected at concentrations exceeding the NYSDOH Air Guidance Values
1.0	Parameter was detected at concentrations exceeding the laboratory reporting limit
< 1.0	Parameter was not detected at concentrations exceeding the laboratory reporting limit

Notes:
All concentrations in micrograms per cubic meter (µg/m³)
Recommendations based on May 2017 and February 2024 NYSDOH Soil Vapor/Indoor Air Matrices (Decision Matrices)
E = Reported result is estimated; value reported over verified calibration range
J = Detected but below the Reporting Limit; therefore, result is an estimated concentration
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Table 2
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

Property 1C								
Date Collected:	**2/20-2/21/2024**	**2/20-2/21/2024**	**2/20-2/21/2024**	**2/20-2/21/2024**	**NYSDOH Air Guidance Values**	**NYSDOH Immediate Action Levels**	**NYSDOH May 2017 / February 2024 Matrix Recommendations**	**Final Action Recommended**
Sample Locations:	**Sub-Slab Soil Vapor Concentrationss**	**Basement Indoor Air Concentrations**	**First Floor Indoor Air Concentrations**	**Outdoor Air Concentrations**				
Volatile Organic Compounds (µg/m³)								
1,1,2-Trichlorotrifluoroethane (Freon 113)	**0.60 J**	**0.63 J**	**0.55 J**	**0.55 J**	---	---	---	**Monitor**
1,1-Dichloroethane	**0.32 J**	< 0.14	< 0.14	< 0.14	---	---	---	
1,2,4-Trimethylbenzene	**0.79**	**0.80**	**1.2**	**1.5**	---	---	No Further Action	
1,2-Dichloroethane	< 0.40	**0.056 J**	**0.076 J**	< 0.14	---	---	---	
1,2-Dichlorotetrafluoroethane (Freon 114)	< 0.70	**0.13 J**	**0.12 J**	**0.15 J**	---	---	---	
1,3,5-Trimethylbenzene	< 0.49	**0.23**	**0.32**	**0.48**	---	---	No Further Action	
1,4-Dichlorobenzene	< 0.60	< 0.21	**0.13 J**	**0.12 J**	---	---	---	
1-Ethyl-4-methyl-benzene	**0.23 J**	**0.086 J**	**0.22**	**0.32**	---	---	---	
2-Hexanone (Methyl butyl ketone/MBK)	**0.42**	**0.25**	< 0.14	< 0.14	---	---	---	
Acetone	**23**	**14**	**32**	**5.5**	---	---	---	
Benzene	**0.70**	**0.72**	**1.3**	**1.6**	---	---	No Further Action	
Carbonisulfide	**0.83 J**	< 1.1	< 1.1	< 1.1	---	---	---	
Carbon tetrachloride	**19**	**0.38**	**0.40**	**0.39**	---	---	**Monitor**	
Chloroform	**17**	**0.18**	**0.16 J**	**0.16 J**	---	---	---	
Chloromethane	< 0.41	**0.64**	**1.0**	**1.2**	---	---	---	
Cyclohexane	< 0.34	**0.31**	**2.8**	**0.29**	---	---	---	
Dichlorodifluoromethane	**2.5**	**2.4**	**2.4**	**2.3**	---	---	---	
Ethanol	**20**	**8.3**	**15**	**18**	---	---	---	
Ethyl Acetate	< 3.6	**1.9**	< 1.3	**0.89 J**	---	---	---	
Ethylbenzene	**1.1**	**5.2**	**2.7**	**3.2**	---	---	No Further Action	
Heptane	**0.78**	**0.22**	**1.2**	**0.53**	---	---	No Further Action	
Isopropyl Alcohol	**20**	**2.2 J**	**2.6 J**	**2.6 J**	---	---	---	
m,p-Xylene	**3.0**	**13**	**2.7**	**2.8**	---	---	No Further Action	
Methyl isobutyl ketone (MIBK)	**0.64**	**0.19**	< 0.14	**0.16**	---	---	---	
Methylene chloride	< 3.5	**0.51 J**	**0.65 J**	**0.57 J**	60	---	No Further Action	
Methyltertbutyl ether	**0.85**	< 0.13	< 0.13	< 0.13	---	---	---	
Naphthalene	< 0.52	**1.0**	**3.4**	**3.7**	---	---	No Further Action	
o-Xylene	**0.89**	**3.5**	**1.3**	**1.4**	---	---	No Further Action	
Styrene	**0.42 J**	< 0.15	**0.32**	**0.26**	---	---	---	
Tetrachloroethene	**2.0**	**0.45**	**0.38**	**0.35**	30	300	No Further Action	
Toluene	**8.4**	**5.4**	**2.4**	**2.9**	---	---	No Further Action	
Trichloroethene	**2.3**	**0.37**	**0.23**	**0.24**	2	20	No Further Action	
Trichlorofluoromethane	**1.2 J**	**1.3**	**1.2**	**1.2**	---	---	---	
Vinyl acetate	**3.4 J**	**1.4 J**	**1.5 J**	**0.64 J**	---	---	---	

Legend:

50	Decision Matrices recommend a specific action based on parameter concentrations
25	Parameter was detected at concentrations exceeding the NYSDOH Immediate Action Levels
5.0	Parameter was detected at concentrations exceeding the NYSDOH Air Guidance Values
1.0	Parameter was detected at concentrations exceeding the laboratory reporting limit
< 1.0	Parameter was not detected at concentrations exceeding the laboratory reporting limit

Notes:
All concentrations in micrograms per cubic meter (µg/m³)
Recommendations based on May 2017 and February 2024 NYSDOH Soil Vapor/Indoor Air Matrices (Decision Matrices)
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Table 2
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

Property 2									
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**	**NYSDOH Air Guidance Values**	**NYSDOH Immediate Action Levels**	**NYSDOH May 2017 Matrix Recommendations**	**Final Action Recommended**
Sample Locations:	**Sub-Slab Soil Vapor Concentrations**	**Basement Indoor Air Concentrationss**	**First Floor Indoor Air Concentrationss**	**First Floor Indoor Air Concentrationss**	**Outdoor Air Concentrationss**				
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**	---	---	---	**Mitigate**
1,1-Dichloroethane	**1.5**	< 0.20	< 0.20	< 0.20	< 0.20	---	---	---	
1,1-Dichloroethene	**0.38**	< 0.20	< 0.20	< 0.20	< 0.20	---	---	No Further Action	
1,2,4-Trimethylbenzene	**0.29**	**0.23 J**	**0.27**	**0.21 J**	**0.19 J**	---	---	No Further Action	
Acetone	< 4.8	**12**	**9.7**	**12**	**7.8**	---	---	---	
Acrolein	< 2.3	**1.5 J**	**0.77 J**	**1.1 J**	< 2.3	---	---	---	
Benzene	**35**	**0.91**	**0.98**	**1.0**	**0.98**	---	---	No Further Action	
Carbon disulfide	**0.31 J**	< 1.6	< 1.6	< 1.6	< 1.6	---	---	---	
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	---	---	---	
Chloroform	**44**	< 0.24	< 0.24	< 0.24	< 0.24	---	---	---	
Chloromethane	**0.28**	**1.1**	**1.3**	**1.3**	**1.2**	---	---	---	
cis-1,2-Dichloroethene	**53**	**1.1**	**0.67**	**0.19 J**	< 0.20	---	---	**Mitigate**	
Cyclohexane	**11**	< 0.17	**0.14 J**	**0.15 J**	**0.13 J**	---	---	No Further Action	
Dichlorodifluoromethane	**3.4**	**2.7**	**2.6**	**2.7**	**2.8**	---	---	---	
Ethanol	**19**	**24**	**19**	**150 D**	**15**	---	---	---	
Ethylbenzene	**0.45**	**0.20 J**	**0.20 J**	**0.21 J**	**0.17 J**	---	---	No Further Action	
Heptane	**1.6**	**0.23**	**0.28**	**0.34**	**0.30**	---	---	No Further Action	
Isopropyl Alcohol	**100**	**100**	**63**	**17**	**26**	---	---	---	
m,p-Xylene	**1.0**	**0.32 J**	**0.47**	**0.51**	**0.45**	---	---	No Further Action	
Methylene chloride	< 1.7	< 1.7	**0.91 J**	< 1.7	< 1.7	60	---	No Further Action	
Methyltertbutyl ether	**92**	< 0.18	< 0.18	< 0.18	< 0.18	---	---	---	
Naphthalene	< 0.26	**0.21 J**	< 0.26	**0.23 J**	< 0.26	---	---	No Further Action	
o-Xylene	**0.27**	**0.21 J**	**0.22**	**0.22**	**0.21 J**	---	---	No Further Action	
Propene	**5.5**	< 3.4	< 3.4	< 3.4	< 3.4	---	---	---	
Styrene	**0.48**	< 0.21	< 0.21	< 0.21	< 0.21	---	---	---	
Tetrachloroethene	**180**	**16**	**6.0**	**3.2**	**0.39**	30	300	**Mitigate**	
Tetrahydrofuran	**1.5 J**	< 1.5	< 1.5	< 1.5	< 1.5	---	---	---	
Toluene	**1.1**	**0.64**	**0.82**	**0.89**	**0.83**	---	---	No Further Action	
trans-1,2-Dichloroethene	**2.6**	**0.19 J**	< 0.20	< 0.20	< 0.20	---	---	---	
Trichloroethene	**63**	**0.76**	**0.35**	**0.23 J**	< 0.27	2	20	**Mitigate**	
Trichlorofluoromethane	**1.2**	**1.4**	**1.3**	**1.3**	**1.4**	---	---	---	
Vinyl Chloride	**8.6**	**0.24**	**0.13**	< 0.13	< 0.13	---	---	**Mitigate**	

Legend:

50	Decision Matrices recommend a specific action based on parameter concentrations
25	Parameter was detected at concentrations exceeding the NYSDOH Immediate Action Levels
5.0	Parameter was detected at concentrations exceeding the NYSDOH Air Guidance Values
1.0	Parameter was detected at concentrations exceeding the laboratory reporting limit
< 1.0	Parameter was not detected at concentrations exceeding the laboratory reporting limit

Notes:
All concentrations in micrograms per cubic meter (µg/m³)
Recommendations based on May 2017 NYSDOH Soil Vapor/Indoor Air Matrices (Decision Matrices)
E = Reported result is estimated; value reported over verified calibration range
J = Detected but below the Reporting Limit; therefore, result is an estimated concentration
--- = Standard Not Promulgated

Table 2
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

Property 2												
Date Collected:	**12/13-12/14/2023**	**12/13-12/14/2023**	**12/13-12/14/2023**	**12/13-12/14/2023**	**12/13-12/14/2023**	**12/13-12/14/2023**	**12/13-12/14/2023**	**12/13-12/14/2023**	**NYSDOH Air Guidance Values**	**NYSDOH Immediate Action Levels**	**NYSDOH May 2017 / February 2024 Matrix Recommendations**	**Final Action Recommended**
Sample Locations:	**Sub-Slab Soil Vapor Concentrations**	**Basement Indoor Air Concentrationss**	**First Floor Indoor Air Concentrations**	**Second Floor Indoor Air Concentrations**	**Basement Indoor Air Concentrationss**	**First Floor Indoor Air Concentrations**	**Second Floor Indoor Air Concentrations**	**Outdoor Air Concentrations**				
Volatile Organic Compounds (µg/m³)												
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	**0.89**	**0.59**	**0.62**	**0.85**	**0.66**	**0.65**	**0.58**	**0.58**	---	---	---	**Mitigate**
1,1-Dichloroethane	**3.3**	**0.045**	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	---	---	---	
1,1-Dichloroethene	**0.62**	**0.047**	0.053	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	---	---	No Further Action	
1,2,4-Trimethylbenzene	**3.0**	**1.9**	**2.8**	**2.1**	**1.9**	**2.4**	**1.7**	**0.26**	---	---	No Further Action	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	**0.32**	**0.14**	**0.14**	**0.13**	**0.13**	**0.13**	**0.13**	**0.12**	---	---	---	
1,2-Dichloroethane	< 0.15	**0.093**	**0.10**	**0.11**	0.096	**0.093**	**0.10**	**0.12**	---	---	---	
1,2-Dichloropropane	< 0.13	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	**0.052**	---	---	---	
1,3,5-Trimethylbenzene	**1.2**	**0.15**	**0.20**	**0.16**	**0.13**	**0.16**	**0.15**	< 0.088	---	---	No Further Action	
2-Butanone (MEK)	**8.3**	**1.4**	< 1.2	**2.5**	< 1.2	< 1.2	< 1.2	**1.2**	---	---	---	
2-Hexanone (MBK)	< 0.18	**0.14**	< 0.062	**0.33**	< 0.062	**0.089**	< 0.062	**0.13**	---	---	---	
4-Ethyltoluene	**0.81**	**0.25**	**0.36**	**0.22**	**0.21**	**0.28**	**0.20**	< 0.075	---	---	---	
Acetone	**88**	**8.0**	**6.8**	**32**	**5.4**	**7.7**	**9.2**	**7.7**	---	---	---	
Benzene	**100**	**19**	**22**	**10**	**22**	**20**	**12**	**0.93**	---	---	**Mitigate**	
Bromodichloromethane	< 0.18	< 0.064	< 0.064	**0.10**	< 0.064	< 0.064	< 0.064	< 0.064	---	---	---	
Bromomethane	< 0.21	< 0.072	**0.079**	< 0.072	< 0.072	**0.079**	< 0.072	< 0.072	---	---	---	
Carbon Disulfide	**0.73**	< 0.21	< 0.21	**1.1**	< 0.21	**0.63**	< 0.21	< 0.21	---	---	---	
Carbon Tetrachloride	**0.23**	**0.62**	**0.62**	**0.63**	**0.47**	**0.60**	**0.59**	**0.59**	---	---	No Further Action	
Chloroethane	< 0.17	**0.064**	< 0.058	< 0.058	**0.064**	< 0.058	< 0.058	< 0.058	---	---	---	
Chloroform	**1.2**	**0.24**	**0.23**	**0.78**	**0.21**	**0.21**	**0.20**	**0.14**	---	---	---	
Chloromethane	**0.24**	**0.91**	**0.91**	**1.1**	**0.88**	**0.89**	**0.94**	**1.0**	---	---	---	
cis-1,2-Dichloroethene	**130**	**2.4**	**2.4**	**1.3**	**2.6**	**2.2**	**1.4**	**0.20**	---	---	**Mitigate**	
Cyclohexane	**4.3**	**0.26**	**0.28**	**0.31**	**0.29**	**0.30**	**0.28**	**0.22**	---	---	No Further Action	
Dichlorodifluoromethane (Freon 12)	**3.5**	**3.1**	**3.4**	**2.8**	**2.9**	**3.0**	**2.9**	**2.8**	---	---	---	**Mitigate**
Ethanol	**81**	**9.7**	**9.0**	**1100**	**6.5**	**9.4**	**75**	**16**	---	---	---	
Ethyl Acetate	< 1.0	< 0.36	**0.59**	**4.4**	< 0.36	< 0.36	**0.80**	**0.54**	---	---	---	
Ethylbenzene	**0.98**	**2.3**	**2.6**	**1.5**	**1.8**	**2.1**	**1.5**	**0.27**	---	---	No Further Action	
Heptane	**4.0**	**0.35**	**0.35**	**0.68**	**0.32**	**0.35**	**0.44**	**0.35**	---	---	No Further Action	
Isopropanol	**310**	**2.9**	**3.6**	**8.2**	**3.2**	**3.6**	**13**	**3.3**	---	---	---	
m&p-Xylene	**2.1**	**0.67**	**0.82**	**1.5**	**0.70**	**0.77**	**0.81**	**0.69**	---	---	No Further Action	
Methyl tert-Butyl Ether (MTBE)	**53**	**3.4**	**3.6**	**1.9**	**4.5**	**3.8**	**2.3**	**0.068**	---	---	---	
Methylene Chloride	< 0.93	**0.68**	**0.59**	**0.75**	**0.58**	**0.59**	**0.65**	**0.65**	60	---	No Further Action	
Naphthalene	< 0.35	**2.8**	**4.3**	**2.9**	**2.8**	**3.3**	**2.3**	< 0.12	---	---	No Further Action	
o-Xylene	**0.76**	**0.83**	**0.91**	**1.0**	**0.74**	**0.77**	**0.64**	**0.27**	---	---	No Further Action	
Propene	**7.9**	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	---	---	---	
Styrene	**0.27**	< 0.080	< 0.080	**0.23**	< 0.080	< 0.080	**0.095**	< 0.080	---	---	---	
Tetrachloroethene	**61**	**21**	**20**	**9.8**	**19**	**18**	**11**	**0.54**	30	300	**Identify Source(s) and Resample or Mitigate**	
Tetrahydrofuran	**4.7**	< 0.21	< 0.21	**0.74**	< 0.21	**0.23**	< 0.21	< 0.21	---	---	---	
Toluene	**78**	**0.88**	**1.0**	**1.5**	**0.83**	**1.0**	**1.2**	**1.3**	---	---	No Further Action	
trans-1,2-Dichloroethene	**2.1**	**0.15**	**0.17**	**0.11**	**0.13**	**0.14**	**0.10**	< 0.045	---	---	---	
Trichloroethene	**89**	**1.6**	**1.5**	**0.77**	**1.7**	**1.3**	**0.95**	**0.63**	2	20	**Mitigate**	
Trichlorofluoromethane (Freon 11)	**1.1**	**1.5**	**1.6**	**1.7**	**1.6**	**1.6**	**1.5**	**1.6**	---	---	---	
Vinyl Acetate	**3.3**	**1.6**	**0.81**	**2.6**	**0.88**	**0.94**	**1.2**	**1.5**	---	---	---	
Vinyl Chloride	**6.3**	**0.62**	**0.65**	**0.28**	**0.57**	**0.67**	**0.36**	< 0.041	---	---	**Mitigate**	

Legend:

50	Decision Matrices recommend a specific action based on parameter concentrations
25	Parameter was detected at concentrations exceeding the NYSDOH Immediate Action Levels
5.0	Parameter was detected at concentrations exceeding the NYSDOH Air Guidance Values
1.0	Parameter was detected at concentrations exceeding the laboratory reporting limit
< 1.0	Parameter was not detected at concentrations exceeding the laboratory reporting limit

Notes:
All concentrations in micrograms per cubic meter (µg/m³)
Recommendations based on May 2017 and February 2024 NYSDOH Soil Vapor/Indoor Air Matrices (Decision Matrices)
E = Reported result is estimated; value reported over verified calibration range
J = Detected but below the Reporting Limit; therefore, result is an estimated concentration
--- = Standard Not Promulgated

Table 2
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

Property 3								
Date Collected:	**2/15-2/16/2023**	**2/15-2/16/2023**	**2/15-2/16/2023**	**2/15-2/16/2023**	**NYSDOH Air Guidance Values**	**NYSDOH Immediate Action Levels**	**NYSDOH May 2017 / February 2024 Matrix Recommendations**	**Final Action Recommended**
Sample Locations:	**Basement Indoor Air Concentrationss**	**Basement Indoor Air Concentrationss**	**First Floor Indoor Air Concentrationss**	**Outdoor Air Concentrationss**				
Volatile Organic Compounds (µg/m³)								
1,1,2-Trichlorotrifluoroethane (Freon 113)	**0.48 J**	**0.52 J**	**0.67 J**	**0.52 J**	---	---	---	**Mitigate**
1,1-Dichloroethene	**1.7**	**2.0**	**0.33**	< 0.20	---	---	**Identify Source(s) and Resample or Mitigate**	
1,2,4-Trimethylbenzene	< 0.25	**0.27**	**0.75**	**0.84**	---	---	No Further Action	
1,3,5-Trimethylbenzene	< 0.25	< 0.25	**0.22 J**	**0.27**	---	---	---	
1,4-Dichlorobenzene	< 0.30	< 0.30	**0.20 J**	< 0.30	---	---	---	
1-Ethyl-4-methyl-benzene	< 0.25	< 0.25	**0.17 J**	**0.21 J**	---	---	---	
2-Butanone (MEK)	< 5.9	**1.7 J**	< 5.9	< 5.9	---	---	---	
2-Hexanone (Methyl butyl ketone/MBK)	**0.28**	< 0.20	< 0.20	< 0.20	---	---	---	
Acetone	**13**	< 4.8	**23**	**22**	---	---	---	
Acrolein	**1.4 J**	**1.4 J**	**1.4 J**	**0.86 J**	---	---	---	
Benzene	**0.66**	**1.3**	**2.1**	**2.6**	---	---	---	
Carbon disulfide	< 1.6	**1.3 J**	< 1.6	< 1.6	---	---	---	
Carbon tetrachloride	**0.56**	**0.56**	**0.55**	**0.38**	---	---	No Further Action	
Chloroethane	< 0.13	**0.13**	< 0.13	**0.13 J**	---	---	---	
Chloroform	**1.0**	**0.64**	**0.48**	< 0.24	---	---	---	
Chloromethane	**0.33**	**0.61**	**1.2**	**1.6**	---	---	---	
cis-1,2-Dichloroethene	**230**	**130**	**43**	**0.16 J**	---	---	**Mitigate**	
Cyclohexane	**0.50**	**0.51**	**0.59**	**0.84**	---	---	No Further Action	
Dichlorodifluoromethane	**2.6**	**2.5**	**3.2**	**3.9**	---	---	---	
Ethanol	**7.4**	**14**	**63**	**47**	---	---	---	
Ethylbenzene	< 0.22	**0.30**	**0.83**	**0.99**	---	---	No Further Action	
Heptane	**0.23**	**0.34**	**1.1**	**1.1**	---	---	No Further Action	
Isopropyl Alcohol	**6.4**	**3.6 J**	**9.2**	**8.8**	---	---	---	
m,p-Xylene	< 0.43	**0.86**	**2.3**	**2.9**	---	---	No Further Action	
Methylene chloride	**3.7**	< 1.7	< 1.7	< 1.7	60	---	No Further Action	
Naphthalene	< 0.26	< 0.26	**0.62**	**0.27**	---	---	No Further Action	
o-Xylene	< 0.22	**0.55**	**0.90**	**1.1**	---	---	No Further Action	
Styrene	< 0.21	< 0.21	**0.26**	**0.16 J**	---	---	---	
Tetrachloroethene	**65**	**38**	**14**	**2.6**	30	300	**Mitigate**	
Tetrahydrofuran	< 1.5	**0.43 J**	**0.45 J**	**0.47 J**	---	---	---	
Toluene	**0.32**	**1.5**	**3.8**	**5.1**	---	---	No Further Action	
trans-1,2-Dichloroethene	**1.4**	**0.86**	**0.33**	< 0.20	---	---	---	
Trichloroethene	**900**	**530**	**170**	**0.55**	2	20	**Mitigate**	
Trichlorofluoromethane	**1.4**	**1.5**	**1.6**	**1.6**	---	---	---	
Vinyl Chloride	**2.5**	**1.5**	**0.59**	< 0.13	---	---	**Mitigate**	

Legend:

50	Decision Matrices recommend a specific action based on parameter concentrations
25	Parameter was detected at concentrations exceeding the NYSDOH Immediate Action Levels
5.0	Parameter was detected at concentrations exceeding the NYSDOH Air Guidance Values
1.0	Parameter was detected at concentrations exceeding the laboratory reporting limit
< 1.0	Parameter was not detected at concentrations exceeding the laboratory reporting limit

Notes:
All concentrations in micrograms per cubic meter (µg/m³)
Recommendations based on May 2017 NYSDOH Soil Vapor/Indoor Air Matrices (Decision Matrices)
E = Reported result is estimated; value reported over verified calibration range
J = Detected but below the Reporting Limit; therefore, result is an estimated concentration
--- = Standard Not Promulgated

Table 2
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

Property 5										
Date Collected:	**1/24-1/25/2023**	**1/24-1/25/2023**	**1/19-1/20/2023**	**1/19-1/20/2023**	**1/19-1/20/2023**	**1/24-1/25/2023**	**NYSDOH Air Guidance Values**	**NYSDOH Immediate Action Levels**	**NYSDOH May 2017 / February 2024 Matrix Recommendations**	**Final Action Recommended**
Sample Locations:	**Sub-Slab Soil Vapor Concentrationss**	**Basement Indoor Air Concentrationss**	**First Floor Indoor Air Concentrationss**	**First Floor Indoor Air Concentrationss**	**Outdoor Air Concentrations**	**Outdoor Air Concentrations**				
Volatile Organic Compounds (µg/m³)										
1,1,2-Trichlorotrifluoroethane (Freon 113)	**0.51 J**	**0.61 J**	**0.54 J**	**0.48 J**	**0.62 J**	**0.54 J**	---	---	---	**Mitigate**
1,1-Dichloroethane	**0.51**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	---	---	---	
1,1-Dichloroethene	**0.25**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	---	---	No Further Action	
1,2,4-Trimethylbenzene	**0.63**	**0.32**	**0.82**	**1.0**	**1.1**	**0.23 J**	---	---	No Further Action	
1,2-Dichloroethane	**0.20 J**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	---	---	---	
1,2-Dichloropropane	**0.54**	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	---	---	---	
1,3 Butadiene	< 0.11	< 0.11	**0.14**	**0.13**	**0.17**	< 0.11	---	---	---	
1,3,5-Trimethylbenzene	**0.15 J**	< 0.25	**0.17 J**	**0.19 J**	< 0.25	< 0.25	---	---	No Further Action	
1,3-Dichlorobenzene	< 0.30	< 0.30	< 0.30	< 0.30	**0.51**	< 0.30	---	---	---	
1-Ethyl-4-methyl-benzene	< 0.25	< 0.25	**0.15 J**	**0.17 J**	< 0.25	< 0.25	---	---	---	
2-Butanone (MEK)	**6.7**	**1.6 J**	< 5.9	< 5.9	< 5.9	< 5.9	---	---	---	
2-Hexanone (Methyl butyl ketone/MBK)	**1.4**	< 0.20	**0.16 J**	**0.29**	< 0.20	< 0.20	---	---	---	
Acetone	**35**	**18**	**20**	**16**	**12**	**7.4**	---	---	---	
Acrolein	< 2.3	< 2.3	**0.75 J**	< 2.3	< 2.3	< 2.3	---	---	---	
Benzene	**0.98**	**1.2**	**1.0**	**1.0**	**0.98**	**1.2**	---	---	No Further Action	
Carbon disulfide	**1.5 J**	< 1.6	< 1.6	**4.7**	**0.21 J**	< 1.6	---	---	---	
Carbon tetrachloride	**0.45**	< 0.31	**0.30 J**	**0.43**	**0.36**	< 0.31	---	---	No Further Action	
Chloroform	**6.0**	**0.55**	< 0.24	< 0.24	**0.26**	< 0.24	---	---	---	
Chloromethane	**0.50**	**1.1**	**1.1**	**0.83**	**0.97**	**1.3**	---	---	---	
cis-1,2-Dichloroethene	**17**	**1.1**	< 0.20	< 0.20	< 0.20	< 0.20	---	---	**Mitigate**	
Cyclohexane	**0.40**	**0.35**	**0.65**	**0.48**	**0.19**	**0.18**	---	---	No Further Action	
Dichlorodifluoromethane	**2.9**	**2.8**	**2.0**	**1.6**	**1.8**	**3.0**	---	---	---	
Ethanol	**78**	**91**	**82**	**77**	**46**	**23**	---	---	---	
Ethyl Acetate	**6.2**	< 1.8	**6.7**	**3.9**	< 1.8	**1.3 J**	---	---	---	
Ethylbenzene	**1.2**	**0.39**	**0.63**	**0.59**	**0.31**	**0.32**	---	---	No Further Action	
Heptane	**1.7**	**0.42**	**0.50**	**0.41**	**0.34**	**0.40**	---	---	No Further Action	
Hexane	**8.1**	**1.1 J**	**5.1 J**	**2.1 J**	**0.99 J**	< 7.0	---	---	No Further Action	
Isopropyl Alcohol	**290**	**35**	**110**	**110**	**5.1**	**60**	---	---	---	
m,p-Xylene	**1.3**	**1.0**	**2.4**	**2.2**	**1.0**	**0.68**	---	---	No Further Action	
Methyl isobutyl ketone (MIBK)	**0.41**	< 0.20	**0.14 J**	**0.14 J**	**0.16 J**	< 0.20	---	---	---	
Methylene chloride	< 1.7	< 1.7	**0.83 J**	< 1.7	< 1.7	< 1.7	60	---	No Further Action	
Methyltertbutyl ether	**0.20**	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	---	---	---	
Naphthalene	**0.25 J**	< 0.26	**0.24 J**	< 0.26	< 0.26	< 0.26	---	---	No Further Action	
o-Xylene	**0.58**	**0.37**	**0.79**	**0.71**	**0.40**	**0.29**	---	---	No Further Action	
Styrene	**0.37**	**0.13 J**	**0.19 J**	< 0.21	< 0.21	< 0.21	---	---	---	
Tetrachloroethene	**360**	**5.8**	**0.33 J**	**0.31 J**	**0.30 J**	< 0.34	30	300	**Monitor**	
Tetrahydrofuran	**0.95 J**	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	---	---	---	
Toluene	**8.0**	**27**	**44**	**23**	**2.1**	**2.8**	---	---	**Identify Source(s) or Resample or Mitigate**	
trans-1,2-Dichloroethene	**1.0**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	---	---	---	
Trichloroethene	**46**	**3.1**	< 0.27	< 0.27	< 0.27	< 0.27	2	20	**Mitigate**	
Trichlorofluoromethane	**1.4**	**1.4**	**1.6**	**1.2**	**1.4**	**1.3**	---	---	---	
Vinyl acetate	< 1.8	< 1.8	**1.1 J**	< 1.8	< 1.8	< 1.8	---	---	---	

Legend:

50	Decision Matrices recommend a specific action based on parameter concentrations
25	Parameter was detected at concentrations exceeding the NYSDOH Immediate Action Levels
5.0	Parameter was detected at concentrations exceeding the NYSDOH Air Guidance Values
1.0	Parameter was detected at concentrations exceeding the laboratory reporting limit
< 1.0	Parameter was not detected at concentrations exceeding the laboratory reporting limit

Notes:
All concentrations in micrograms per cubic meter (µg/m³)
Recommendations based on May 2017 NYSDOH Soil Vapor/Indoor Air Matrices (Decision Matrices)
E = Reported result is estimated; value reported over verified calibration range
J = Detected but below the Reporting Limit; therefore, result is an estimated concentration
--- = Standard Not Promulgated

Table 2
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

Property 7								
Date Collected:	**2/13-2/14/2023**	**2/13-2/14/2023**	**2/13-2/14/2023**	**2/13-2/14/2023**	**NYSDOH Air Guidance Values**	**NYSDOH Immediate Action Levels**	**NYSDOH May 2017 / February 2024 Matrix Recommendations**	**Final Action Recommended**
Sample Locations:	**Sub-Slab Soil Vapor Concentrations**	**Basement Indoor Air Concentrationss**	**First Floor Indoor Air Concentrationss**	**Outdoor Air Concentrationss**				
Volatile Organic Compounds (µg/m³)								
1,1,1-Trichloroethane	**0.34**	< 0.27	< 0.27	< 0.27	---	---	No Further Action	**Mitigate**
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.8	**0.52 J**	**0.54 J**	**0.53 J**	---	---	---	
1,2,4-Trimethylbenzene	**0.51**	**0.61**	**0.43**	**0.19 J**	---	---	No Further Action	
1,3,5-Trimethylbenzene	**0.21 J**	**0.18 J**	**0.14 J**	< 0.25	---	---	No Further Action	
2-Butanone (MEK)	**5.3 J**	< 5.9	**1.8 J**	< 5.9	---	---	---	
Acetone	< 5.7	**19**	**20**	**7.8**	---	---	---	
Acrolein	**1.9 J**	< 2.3	**1.5 J**	< 2.3	---	---	---	
Benzene	**1.1**	**1.1**	**1.1**	**0.98**	---	---	No Further Action	
Carbon disulfide	**0.25 J**	< 1.6	< 1.6	< 1.6	---	---	---	
Carbon tetrachloride	**0.97**	**0.53**	**0.49**	**0.52**	---	---	No Further Action	
Chloroform	**31**	**0.28**	< 0.24	< 0.24	---	---	---	
Chloromethane	**0.28**	**1.4**	**1.4**	**1.2**	---	---	---	
cis-1,2-Dichloroethene	**1.0**	**0.51**	**0.20**	< 0.20	---	---	No Further Action	
Cyclohexane	< 0.21	**0.23**	**0.24**	**0.13 J**	---	---	No Further Action	
Dichlorodifluoromethane	**3.0**	**2.6**	**3.4**	**2.8**	---	---	---	
Ethanol	**53**	**35**	**39**	**15**	---	---	---	
Ethyl Acetate	< 2.2	**1.3 J**	**1.2 J**	< 1.8	---	---	---	
Ethylbenzene	**0.57**	**1.2**	**0.99**	**0.17 J**	---	---	No Further Action	
Heptane	**27**	**0.46**	**0.48**	**0.30**	---	---	No Further Action	
Isopropyl Alcohol	**310**	**14**	**23**	**26**	---	---	---	
m,p-Xylene	**1.4**	**4.4**	**3.5**	**0.45**	---	---	No Further Action	
Methyl isobutyl ketone (MIBK)	< 0.25	< 0.20	**0.34**	< 0.20	---	---	---	
Naphthalene	< 0.31	**0.29**	< 0.26	< 0.26	---	---	---	
o-Xylene	**0.64**	**1.3**	**1.1**	**0.21 J**	---	---	No Further Action	
Styrene	**0.37**	**2.3**	**2.3**	< 0.21	---	---	---	
Tetrachloroethene	**100**	**2.5**	**0.79**	**0.39**	30	300	No Further Action	
Tetrahydrofuran	**1.4 J**	< 1.5	< 1.5	< 1.5	---	---	---	
Toluene	**2.1**	**4.6**	**4.3**	**0.83**	---	---	No Further Action	
Trichloroethene	**110**	**3.5**	**1.1**	< 0.27	2	20	**Mitigate**	
Trichlorofluoromethane	**1.4**	**1.3**	**1.4**	**1.4**	---	---	---	

Legend:

50	Decision Matrices recommend a specific action based on parameter concentrations
25	Parameter was detected at concentrations exceeding the NYSDOH Immediate Action Levels
5.0	Parameter was detected at concentrations exceeding the NYSDOH Air Guidance Values
1.0	Parameter was detected at concentrations exceeding the laboratory reporting limit
< 1.0	Parameter was not detected at concentrations exceeding the laboratory reporting limit

Notes:
All concentrations in micrograms per cubic meter (µg/m³)
Recommendations based on May 2017 and February 2024 NYSDOH Soil Vapor/Indoor Air Matrices (Decision Matrices)
E = Reported result is estimated; value reported over verified calibration range
J = Detected but below the Reporting Limit; therefore, result is an estimated concentration
--- = Standard Not Promulgated

Table 2
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

Property 13							
Date Collected:	**4/3-4/4/2024**	**4/3-4/4/2024**	**4/3-4/4/2024**	**NYSDOH Air Guidance Values**	**NYSDOH Immediate Action Levels**	**NYSDOH May 2017 / February 2024 Matrix Recommendations**	**Final Action Recommended**
Sample Locations:	**Basement Indoor Air Concentrationss**	**First Floor Indoor Air Concentrationss**	**Outdoor Air Concentrationss**				
Volatile Organic Compounds (µg/m³)							
1,1,2-Trichlorotrifluoroethane (Freon 113)	**0.57 J**	**0.56 J**	**0.60 J**	---	---	---	**No Further Action**
1,2,4-Trimethylbenzene	**0.14 J**	**0.18**	**0.31**	---	---	No Further Action	
1,2-Dichloroethane	**0.077 J**	**0.082 J**	**0.071 J**	---	---	---	
Benzene	**0.40**	**0.45**	**0.56**	---	---	No Further Action	
Carbon tetrachloride	**0.49**	**0.52**	**0.53**	---	---	No Further Action	
Chloroform	**0.49**	**0.36**	**0.12 J**	---	---	---	
Chloromethane	**1.0**	**1.1**	**1.2**	---	---	---	
Cyclohexane	**0.16**	**0.14**	< 0.12	---	---	No Further Action	
Dichlorodifluoromethane	**1.1**	**1.0**	**0.87**	---	---	---	
Ethanol	**87 J**	**100 J**	**31**	---	---	---	
Ethylbenzene	**0.35**	**0.22**	**0.2**	---	---	No Further Action	
Heptane	**0.18**	**0.26**	**0.24**	---	---	No Further Action	
m,p-Xylene	**1.1**	**0.63**	**0.46**	---	---	No Further Action	
Methyl isobutyl ketone (MIBK)	**0.086 J**	< 0.14	**0.11 J**	---	---	---	
Methylene chloride	**0.58 J**	**0.58 J**	**0.45 J**	60	---	No Further Action	
Naphthalene	**0.31**	**0.38**	**0.53**	---	---	No Further Action	
o-Xylene	**0.28**	**0.20**	**0.18**	---	---	No Further Action	
tert-Butanol	**0.54**	**0.43 J**	< 0.44	---	---	---	
Tetrachloroethene	< 0.24	**0.25**	< 0.24	30	300	No Further Action	
Toluene	**1.0**	**1.6**	**0.77**	---	---	No Further Action	
Trichlorofluoromethane	**1.6 J**	**1.6 J**	**1.5 J**	---	---	---	

Legend:

50	Decision Matrices recommend a specific action based on parameter concentrations
25	Parameter was detected at concentrations exceeding the NYSDOH Immediate Action Levels
5.0	Parameter was detected at concentrations exceeding the NYSDOH Air Guidance Values
1.0	Parameter was detected at concentrations exceeding the laboratory reporting limit
< 1.0	Parameter was not detected at concentrations exceeding the laboratory reporting limit

Notes:
All concentrations in micrograms per cubic meter (µg/m³)
Recommendations based on May 2017 and February 2024 NYSDOH Soil Vapor/Indoor Air Matrices (Decision Matrices)
J = Detected but below the Reporting Limit; therefore, result is an estimated concentration
--- = Standard Not Promulgated

Table 2
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

Property 15								
Date Collected:	**1/23-1/24/2023**	**1/23-1/24/2023**	**1/23-1/24/2023**	**1/23-1/24/2023**	**NYSDOH Air Guidance Values**	**NYSDOH Immediate Action Levels**	**NYSDOH May 2017 / February 2024 Matrix Recommendations**	**Final Action Recommended**
Sample Locations:	**Sub-Slab Soil Vapor Concentrationss**	**Basement Indoor Air Concentrationss**	**First Floor Indoor Air Concentrationss**	**Outdoor Air Concentrationss**				
Volatile Organic Compounds (µg/m³)								
1,1,1-Trichloroethane	**0.50**	< 0.27	< 0.27	< 0.27	---	---	No Further Action	**No Further Action**
1,2,4-Trimethylbenzene	< 0.25	**0.75**	**0.91**	**0.12 J**	---	---	No Further Action	
1,2-Dichlorobenzene	**0.26 J**	< 0.30	< 0.30	< 0.30	---	---	---	
1,3,5-Trimethylbenzene	< 0.25	**0.26**	**0.33**	< 0.25	---	---	No Further Action	
1-Ethyl-4-methyl-benzene	< 0.25	**0.17 J**	**0.22 J**	< 0.25	---	---	---	
Acetone	**20**	**37**	**44**	**6.1**	---	---	---	
Benzene	**0.72**	**1.2**	**1.2**	**0.82**	---	---	No Further Action	
Carbon disulfide	**1.9**	< 1.6	< 1.6	< 1.6	---	---	---	
Carbon tetrachloride	< 0.31	< 0.31	**0.47**	**0.55**	---	---	No Further Action	
Chloroform	**12**	**0.24 J**	**0.32**	< 0.24	---	---	---	
Chloromethane	**0.26**	**1.2**	**1.2**	**1.2**	---	---	---	
Cyclohexane	**0.31**	**0.38**	**0.33**	< 0.17	---	---	No Further Action	
Dichlorodifluoromethane	**2.6**	**9.4**	**2.9**	**2.8**	---	---	---	
Ethanol	**20**	**99**	**160**	**9.7**	---	---	---	
Ethylbenzene	**0.16 J**	**1.4**	**2.0**	< 0.22	---	---	No Further Action	
Heptane	**0.30**	**0.91**	**1.7**	**0.21**	---	---	No Further Action	
Hexane	**1.6 J**	< 7.0	< 7.0	< 7.0	---	---	No Further Action	
Isopropyl Alcohol	**1.5 J**	**7.3**	**12**	**6.8**	---	---	---	
m,p-Xylene	< 0.43	**6.0**	**8.8**	**0.30 J**	---	---	No Further Action	
Methylene chloride	**0.87 J**	< 1.7	< 1.7	< 1.7	60	---	No Further Action	
Naphthalene	< 0.26	**0.34**	< 0.26	< 0.26	---	---	No Further Action	
o-Xylene	**0.12 J**	**1.9**	**2.7**	**0.13 J**	---	---	No Further Action	
Propene	**6.0**	< 3.4	< 3.4	< 3.4	---	---	---	
Styrene	**0.12 J**	**0.29**	**0.42**	< 0.21	---	---	---	
Tetrachloroethene	**1.8**	**0.26 J**	< 0.34	< 0.34	30	300	No Further Action	
Tetrahydrofuran	< 1.5	**0.71 J**	**0.47 J**	< 1.5	---	---	---	
Toluene	**0.42**	**17**	**14**	**1.4**	---	---	No Further Action	
trans-1,2-Dichloroethene	< 0.20	**0.44**	**0.56**	< 0.20	---	---	---	
Trichlorofluoromethane	**1.4**	**1.5**	**1.3**	**1.3**	---	---	---	

Legend:

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25	Parameter was detected at concentrations exceeding the NYSDOH Immediate Action Levels
5.0	Parameter was detected at concentrations exceeding the NYSDOH Air Guidance Values
1.0	Parameter was detected at concentrations exceeding the laboratory reporting limit
< 1.0	Parameter was not detected at concentrations exceeding the laboratory reporting limit

Notes:
All concentrations in micrograms per cubic meter (µg/m³)
Recommendations based on May 2017 NYSDOH Soil Vapor/Indoor Air Matrices (Decision Matrices)
E = Reported result is estimated; value reported over verified calibration range
J = Detected but below the Reporting Limit; therefore, result is an estimated concentration
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Table 2
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

Property 16								
Date Collected:	**3/30-3/31/2023**	**3/30-3/31/2023**	**3/30-3/31/2023**	**3/30-3/31/2023**	**NYSDOH Air Guidance Values**	**NYSDOH Immediate Action Levels**	**NYSDOH May 2017 / February 2024 Matrix Recommendations**	**Final Action Recommended**
Sample Locations:	**Sub-Slab Soil Vapor Concentrations**	**Basement Indoor Air Concentrationss**	**First Floor Indoor Air Concentrationss**	**Outdoor Air Concentrationss**				
Volatile Organic Compounds (µg/m³)								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	< 1.7	**0.52**	**0.51**	**0.52**	---	---	---	**Identify Source(s) & Resample or Mitigate**
1,2,4-Trimethylbenzene	**2.9**	**1.5**	**1.5**	**0.38**	---	---	No Further Action	
1,3,5-Trimethylbenzene	**0.59**	**0.43**	0.43	**0.12**	---	---	No Further Action	
1,3-Butadiene	**1.5**	< 0.065	< 0.065	< 0.065	---	---	---	
2-Butanone (MEK)	**8.4**	**1.5**	**4.9**	< 1.1	---	---	---	
2-Hexanone (MBK)	**0.59**	< 0.071	< 0.071	< 0.071	---	---	---	
4-Ethyltoluene	< 0.60	**0.21**	**0.20**	**0.11**	---	---	---	
4-Methyl-2-pentanone (MIBK)	**0.67**	< 0.076	< 0.076	< 0.076	---	---	---	
Acetone	**33**	**49**	**60**	**9.7**	---	---	---	
Benzene	**7.4**	**0.70**	**0.78**	**0.63**	---	---	No Further Action	
Carbon Disulfide	**1.1**	< 0.10	< 0.10	< 0.10	---	---	---	
Carbon Tetrachloride	< 1.0	**0.52**	**0.50**	**0.49**	---	---	No Further Action	
Chloroform	< 0.93	**0.20**	**0.20**	< 0.16	---	---	---	
Chloromethane	**0.74**	**1.2**	**1.1**	**1.2**	---	---	---	
Cyclohexane	< 0.42	**0.56**	**0.63**	**0.26**	---	---	No Further Action	
Dichlorodifluoromethane (Freon 12)	**1.5**	**2.9**	**2.9**	**2.8**	---	---	---	
Ethanol	**90**	**130**	**140**	**23**	---	---	---	
Ethyl Acetate	< 3.6	**9.8**	**8.3**	< 0.64	---	---	---	
Ethylbenzene	**0.92**	**0.74**	**1.0**	**0.33**	---	---	No Further Action	
Heptane	**1.3**	**4.9**	**5.2**	**0.87**	---	---	No Further Action	
Hexane	< 3.7	**0.94**	**0.83**	**0.65**	---	---	No Further Action	
Isopropanol	**640**	**110**	**5.5**	**2.2**	---	---	---	
m&p-Xylene	**2.8**	**2.3**	**3.3**	**1.0**	---	---	No Further Action	
Methylene Chloride	< 3.2	**3.6**	**3.3**	< 0.56	60	---	No Further Action	
Naphthalene	< 0.79	**0.23**	**0.18**	< 0.14	---	---	No Further Action	
o-Xylene	**1.1**	**0.87**	**1.2**	**0.39**	---	---	No Further Action	
Propene	**9.8**	< 0.53	< 0.53	< 0.53	---	---	---	
Styrene	**0.87**	**0.81**	**1.1**	< 0.078	---	---	---	
Tetrachloroethene	< 1.0	**0.28**	**0.32**	**0.31**	30	300	No Further Action	
Tetrahydrofuran	**3.8**	**0.47**	**0.24**	< 0.17	---	---	---	
Toluene	**8.1**	**3.4**	**3.0**	**1.9**	---	---	No Further Action	
Trichloroethene	< 0.72	**1.3**	**1.2**	< 0.13	2	20	**Identify Source(s) & Resample or Mitigate**	
Trichlorofluoromethane (Freon 11)	< 1.3	**1.3**	**1.3**	**1.3**	---	---	---	
Vinyl Acetate	**6.1**	< 0.66	< 0.66	< 0.66	---	---	---	

Legend:

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25	Parameter was detected at concentrations exceeding the NYSDOH Immediate Action Levels
5.0	Parameter was detected at concentrations exceeding the NYSDOH Air Guidance Values
1.0	Parameter was detected at concentrations exceeding the laboratory reporting limit
< 1.0	Parameter was not detected at concentrations exceeding the laboratory reporting limit

Notes:
All concentrations in micrograms per cubic meter (µg/m³)
Recommendations based on May 2017 NYSDOH Soil Vapor/Indoor Air Matrices (Decision Matrices)
E = Reported result is estimated; value reported over verified calibration range
J = Detected but below the Reporting Limit; therefore, result is an estimated concentration
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Table 2
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

Property 16									
Date Collected:	**7/25-7/26/2023**	**7/25-7/26/2023**	**7/25-7/26/2023**	**7/25-7/26/2023**	**7/25-7/26/2023**	**NYSDOH Air Guidance Values**	**NYSDOH Immediate Action Levels**	**NYSDOH May 2017 / February 2024 Matrix Recommendations**	**Final Action Recommended**
Sample Locations:	**Sub-Slab Soil Vapor Concentrations**	**Basement Indoor Air Concentrationss**	**First Floor Indoor Air Concentrationss**	**Second Floor Indoor Air Concentrationss**	**Outdoor Air Concentrationss**				
Volatile Organic Compounds (µg/m³)									
1,1,2-Trichlorotrifluoroethane (Freon 113)	**0.32 J**	**0.34 J**	**0.37 J**	**0.40 J**	**0.80 J**	---	---	---	**Identify Source(s) & Resample or Mitigate**
1,2,4-Trimethylbenzene	**5.4**	**8.5**	**8.5**	**5.2**	**0.89**	---	---	No Further Action	
1,2-Dibromoethane (EDB) (ethylene dibromide)	**0.28 J**	**0.078 J**	**0.078 J**	**0.078 J**	**0.078 J**	---	---	---	
1,2-Dichloroethane	**0.23 J**	**0.12**	**0.070 J**	**0.37**	**0.056 J**	---	---	---	
1,2-Dichloropropane	< 0.46	**0.039 J**	< 0.14	**0.044 J**	< 0.14	---	---	---	
1,3 Butadiene	**2.2**	**0.12**	**0.11**	**0.12**	**0.10**	---	---	---	
1,3,5-Trimethylbenzene	**1.3**	**2.5**	**2.6**	**1.6**	**0.24**	---	---	No Further Action	
1,4-Dichlorobenzene	< 0.60	< 0.18	< 0.18	< 0.18	**0.15 J**	---	---	---	
1-Ethyl-4-methyl-benzene	**1.1**	**1.4**	**1.5**	**0.96**	**0.24**	---	---	---	
2-Butanone (MEK)	**38**	**6.4**	**5.0**	**5.1**	**3.7**	---	---	---	
2-Hexanone (Methyl butyl ketone/MBK)	**3.0**	< 0.12	< 0.12	**1.8**	**1.2**	---	---	---	
Acetone	**74**	**99 E**	**88 E**	**74 E**	**22**	---	---	---	
Benzene	**1.2**	**1.4**	**1.3**	**1.1**	**1.0**	---	---	No Further Action	
Bromodichloromethane	< 0.67	< 0.20	< 0.20	**0.32**	< 0.20	---	---	---	
Bromomethane	< 0.39	**0.14**	**0.11 J**	**0.21**	**0.15**	---	---	---	
Carbon disulfide	**1.9 J**	**0.21 J**	< 0.93	**0.33 J**	< 0.93	---	---	---	
Carbon tetrachloride	**0.23 J**	**0.36**	**0.37**	**0.40**	**0.37**	---	---	No Further Action	
Chlorobenzene	< 0.46	< 0.14	**0.38**	< 0.14	< 0.14	---	---	---	
Chloroethane	**0.19 J**	**0.076 J**	**0.055 J**	**0.062 J**	< 0.079	---	---	---	
Chloroform	**1.2**	**0.46**	**0.36**	**3.2**	**0.17**	---	---	---	
Chloromethane	**0.27 J**	**1.2**	**1.1**	**1.4**	**0.99**	---	---	---	
Cyclohexane	**1.3**	**1.2**	**0.93**	**0.62**	**0.48**	---	---	No Further Action	
Dichlorodifluoromethane	**1.1**	**0.63**	**1.0**	**0.66**	**0.69**	---	---	---	
Ethanol	**270 E**	**120 E**	**120 E**	**710 E**	**27**	---	---	---	
Ethyl Acetate	**3.9**	**73**	**70**	**15**	**0.66 J**	---	---	---	
Ethylbenzene	**3.0**	**2.0**	**2.0**	**1.2**	**0.66**	---	---	No Further Action	
Heptane	**4.0**	**14**	**13**	**3.8**	**1.2**	---	---	No Further Action	
Hexane	< 14	< 4.2	< 4.2	**1.7 J**	< 4.2	---	---	No Further Action	
Isopropyl Alcohol	**720 E**	**22**	**17**	**96 E**	**5.7**	---	---	---	
m,p-Xylene	**8.0**	**6.7**	**6.2**	**3.9**	**2.3**	---	---	No Further Action	
Methyl isobutyl ketone (MIBK)	**2.0**	< 0.12	< 0.12	**0.78**	**0.61**	---	---	---	
Methylene chloride	< 3.5	**9.2**	**6.3**	**2.2**	**0.58 J**	60	---	No Further Action	
Naphthalene	**0.94**	**1.4**	**1.1**	**0.61**	**0.36**	---	---	No Further Action	
o-Xylene	**4.7**	**2.9**	**2.5**	**1.7**	**0.85**	---	---	No Further Action	
Propene	**13**	< 2.1	< 2.1	< 2.1	< 2.1	---	---	---	
Styrene	**9.1**	**2.5**	**2.3**	**1.0**	**0.13**	---	---	---	
Tetrachloroethene	**0.61 J**	**1.8**	**1.0**	**1.5**	**2.3**	30	300	No Further Action	
Tetrahydrofuran	**41**	**0.33 J**	**0.20 J**	**0.32 J**	**0.21 J**	---	---	---	
Toluene	**9.7**	**7.9**	**6.7**	**7.0**	**3.9**	---	---	No Further Action	
trans-1,2-Dichloroethene	< 0.40	**0.059 J**	**0.050 J**	**0.074 J**	**0.055 J**	---	---	---	
Trichloroethene	< 0.54	**3.7**	**4.1**	**1.1**	< 0.16	2	20	**Identify Source(s) & Resample or Mitigate**	
Trichlorofluoromethane	**0.88 J**	**1.2**	**1.1**	**1.2**	**1.4**	---	---	---	
Vinyl acetate	**5.2 J**	**8.5**	**6.9**	**5.3**	**3.5**	---	---	---	

Legend:

50	Decision Matrices recommend a specific action based on parameter concentrations
25	Parameter was detected at concentrations exceeding the NYSDOH Immediate Action Levels
5.0	Parameter was detected at concentrations exceeding the NYSDOH Air Guidance Values
1.0	Parameter was detected at concentrations exceeding the laboratory reporting limit
< 1.0	Parameter was not detected at concentrations exceeding the laboratory reporting limit

Notes:
All concentrations in micrograms per cubic meter (µg/m³)
Recommendations based on May 2017 and February 2024 NYSDOH Soil Vapor/Indoor Air Matrices (Decision Matrices)
E = Reported result is estimated; value reported over verified calibration range
J = Detected but below the Reporting Limit; therefore, result is an estimated concentration
--- = Standard Not Promulgated

Table 2
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

Property 16									
Date Collected:	**11/28-11/29/2023**	**11/28-11/29/2023**	**11/28-11/29/2023**	**11/28-11/29/2023**	**11/28-11/29/2023**	**NYSDOH Air Guidance Values**	**NYSDOH Immediate Action Levels**	**NYSDOH May 2017 / February 2024 Matrix Recommendations**	**Final Action Recommended**
Sample Locations:	**Sub-Slab Soil Vapor Concentrations**	**Basement Indoor Air Concentrationss**	**First Floor Indoor Air Concentrations**	**Second Floor Indoor Air Concentrationss**	**Outdoor Air Concentrationss**				
Volatile Organic Compounds (µg/m³)									
1,1,2-Trichlorotrifluoroethane (Freon 113)	**0.43 J**	**0.47 J**	**0.52 J**	**0.56 J**	**0.43 J**	---	---	---	**Identify Source(s) & Resample or Mitigate**
1,2,4-Trimethylbenzene	**6.3**	**3.3**	**3.8**	**2.8**	**0.21**	---	---	No Further Action	
1,2-Dichloroethane	< 0.81	**0.073 J**	< 0.14	< 0.14	< 0.14	---	---	---	
1,2-Dichlorotetrafluoroethane (Freon 114)	< 1.4	**0.10 J**	**0.15 J**	< 0.24	< 0.24	---	---	---	
1,3,5-Trimethylbenzene	**2.6**	**0.95**	**1.2**	**0.83**	< 0.17	---	---	No Further Action	
1-Ethyl-4-methyl-benzene	**1.3**	**0.51**	**0.63**	**0.34**	< 0.17	---	---	---	
2-Butanone (MEK)	**8.9 J**	**1.4 J**	< 4.1	**1.3 J**	< 4.1	---	---	---	
2-Hexanone (Methyl butyl ketone/MBK)	< 0.82	< 0.14	< 0.14	< 0.14	**0.11 J**	---	---	---	
Acetone	**51**	**64**	**66**	**55**	**3.8**	---	---	---	
Benzene	**0.98**	**0.72**	**0.65**	**0.72**	**0.45**	---	---	No Further Action	
Bromomethane	< 0.78	< 0.14	**0.14**	< 0.14	< 0.14	---	---	---	
Carbon tetrachloride	**0.48 J**	**0.54**	**0.58**	**0.49**	**0.61**	---	---	No Further Action	
Chloroform	**0.35 J**	**0.13 J**	**0.16 J**	**0.20**	**0.072 J**	---	---	---	
Chloromethane	**0.99**	**0.79**	**0.96**	**0.82**	**0.75**	---	---	---	
Cyclohexane	**1.3**	**2.7**	**3.0**	**2.2**	< 0.12	---	---	No Further Action	
Dichlorodifluoromethane	**1.8**	**2.3**	**2.2**	**2.0**	**2.3**	---	---	---	
Ethanol	**71**	**52**	**59**	**270 E**	**8.4**	---	---	---	
Ethyl Acetate	**12**	**19**	**15**	**14**	**0.96 J**	---	---	---	
Ethylbenzene	**1.3**	**0.80**	**0.73**	**0.84**	**0.22**	---	---	No Further Action	
Heptane	**30**	**68**	**78**	**56**	**0.33**	---	---	**Identify Source(s) & Resample or Mitigate**	
Isopropyl Alcohol	**130**	**14**	**12**	**13**	**2.8 J**	---	---	---	
m,p-Xylene	**4.2**	**2.8**	**2.2**	**2.6**	**0.62**	---	---	No Further Action	
Methylene chloride	< 6.9	**2.6**	**2.3**	**2.2**	**0.46 J**	60	---	No Further Action	
Methyltertbutyl ether	< 0.72	< 0.13	< 0.13	**0.065 J**	< 0.13	---	---	---	
Naphthalene	< 1.0	**0.29**	< 0.18	**0.28**	**0.14 J**	---	---	No Further Action	
o-Xylene	**1.5**	**1.0**	**0.93**	**1.0**	**0.23**	---	---	No Further Action	
Propene	**8.5 J**	< 2.4	< 2.4	< 2.4	< 2.4	---	---	---	
Styrene	**0.99**	**0.48**	**0.52**	**0.47**	< 0.15	---	---	---	
Tetrachloroethene	**1.1 J**	**0.20 J**	**0.22 J**	**0.27**	**0.22 J**	30	300	No Further Action	
Tetrahydrofuran	**6.3**	**0.25 J**	**0.26 J**	< 1.0	< 1.0	---	---	---	
Toluene	**3.9**	**2.2**	**2.1**	**2.1**	**0.82**	---	---	No Further Action	
Trichloroethene	**0.56 J**	**1.4**	**1.4**	**0.97**	< 0.19	2	20	**Identify Source(s) & Resample or Mitigate**	
Trichlorofluoromethane	**0.88 J**	**1.2**	**1.2**	**1.3**	**1.1**	---	---	---	
Vinyl acetate	**4.4 J**	**3.1**	**3.1**	**2.5 J**	**0.61 J**	---	---	---	

Legend:

50	Decision Matrices recommend a specific action based on parameter concentrations
25	Parameter was detected at concentrations exceeding the NYSDOH Immediate Action Levels
5.0	Parameter was detected at concentrations exceeding the NYSDOH Air Guidance Values
1.0	Parameter was detected at concentrations exceeding the laboratory reporting limit
< 1.0	Parameter was not detected at concentrations exceeding the laboratory reporting limit

Notes:
All concentrations in micrograms per cubic meter (µg/m³)
Recommendations based on May 2017 and February 2024 NYSDOH Soil Vapor/Indoor Air Matrices (Decision Matrices)
E = Reported result is estimated; value reported over verified calibration range
J = Detected but below the Reporting Limit; therefore, result is an estimated concentration
--- = Standard Not Promulgated

Table 2
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

Property 17								
Date Collected:	**1/23-1/24/2023**	**1/23-1/24/2023**	**1/23-1/24/2023**	**1/23-1/24/2023**	**NYSDOH Air Guidance Values**	**NYSDOH Immediate Action Levels**	**NYSDOH May 2017 / February 2024 Matrix Recommendations**	**Final Action Recommended**
Sample Locations:	**Sub-Slab Soil Vapor Concentrationss**	**Basement Indoor Air Concentrationss**	**First Floor Indoor Air Concentrationss**	**Outdoor Air Concentrationss**				
Volatile Organic Compounds (µg/m³)								
1,1,1-Trichloroethane	**1.3**	< 0.27	< 0.27	< 0.27	---	---	No Further Action	**No Further Action**
1,1,2-Trichlorotrifluoroethane (Freon 113)	**0.57 J**	**0.52 J**	**0.66 J**	**0.62 J**	---	---	---	
1,2,4-Trimethylbenzene	**0.24 J**	**0.12 J**	**1.2**	**0.12 J**	---	---	No Further Action	
1,2-Dichlorobenzene	**0.72**	< 0.30	< 0.30	< 0.30	---	---	---	
1,3,5-Trimethylbenzene	< 0.25	< 0.25	**0.34**	< 0.25	---	---	No Further Action	
1,4-Dichlorobenzene	**0.72**	< 0.30	< 0.30	< 0.30	---	---	---	
1-Ethyl-4-methyl-benzene	< 0.25	< 0.25	**0.26**	< 0.25	---	---	---	
Acetone	**8.8**	**6.1**	**15**	**6.1**	---	---	---	
Acrolein	**0.73 J**	< 2.3	**0.64 J**	< 2.3	---	---	---	
Benzene	**0.29**	**0.85**	**1.0**	**0.82**	---	---	No Further Action	
Carbon disulfide	**0.27 J**	< 1.6	< 1.6	< 1.6	---	---	---	
Carbon tetrachloride	**0.30 J**	**0.53**	**0.55**	**0.55**	---	---	No Further Action	
Chloroform	**5.3**	< 0.24	**0.73**	< 0.24	---	---	---	
Chloromethane	**0.52**	**1.2**	**1.2**	**1.2**	---	---	---	
Cyclohexane	**0.18**	< 0.17	**0.19**	< 0.17	---	---	No Further Action	
Dichlorodifluoromethane	**2.8**	**2.7**	**2.8**	**2.8**	---	---	---	
Ethanol	**46**	**19**	**130 D**	**9.7**	---	---	---	
Ethyl Acetate	< 1.8	< 1.8	**1.3 J**	< 1.8	---	---	---	
Ethylbenzene	**0.22**	< 0.22	**0.47**	< 0.22	---	---	No Further Action	
Heptane	**0.39**	**0.23**	**1.9**	**0.21**	---	---	No Further Action	
Hexane	**1.2 J**	< 7.0	< 7.0	< 7.0	---	---	No Further Action	
Isopropyl Alcohol	**16**	**5.9**	**5.8**	**6.8**	---	---	---	
m,p-Xylene	**0.47**	**0.30 J**	**1.8**	**0.30 J**	---	---	No Further Action	
Methyl isobutyl ketone (MIBK)	**0.32**	< 0.20	< 0.20	< 0.20	---	---	---	
Methylene chloride	< 1.7	**0.81 J**	< 1.7	< 1.7	60	---	No Further Action	
Naphthalene	**0.28**	< 0.26	< 0.26	< 0.26	---	---	No Further Action	
o-Xylene	**0.26**	**0.13 J**	**0.79**	**0.13 J**	---	---	No Further Action	
Propene	**1.5 J**	< 3.4	< 3.4	< 3.4	---	---	---	
Styrene	**0.24**	< 0.21	**0.24**	< 0.21	---	---	---	
Tetrachloroethene	**3.7**	< 0.34	< 0.34	< 0.34	30	30	No Further Action	
Tetrahydrofuran	**0.50 J**	**0.34 J**	< 1.5	< 1.5	---	---	---	
Toluene	**0.95**	**0.69**	**1.2**	**1.4**	---	---	No Further Action	
Trichlorofluoromethane	**1.3**	**1.4**	**1.4**	**1.3**	---	---	---	
Vinyl acetate	**1.1 J**	< 1.8	< 1.8	< 1.8	---	---	---	

Legend:

50	Decision Matrices recommend a specific action based on parameter concentrations
25	Parameter was detected at concentrations exceeding the NYSDOH Immediate Action Levels
5.0	Parameter was detected at concentrations exceeding the NYSDOH Air Guidance Values
1.0	Parameter was detected at concentrations exceeding the laboratory reporting limit
< 1.0	Parameter was not detected at concentrations exceeding the laboratory reporting limit

Notes:
All concentrations in micrograms per cubic meter (µg/m³)
Recommendations based on May 2017 NYSDOH Soil Vapor/Indoor Air Matrices (Decision Matrices)
E = Reported result is estimated; value reported over verified calibration range
J = Detected but below the Reporting Limit; therefore, result is an estimated concentration
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Table 2
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

Property 18								
Date Collected:	**5/10-5/11/2023**	**5/10-5/11/2023**	**5/10-5/11/2023**	**5/10-5/11/2023**	**NYSDOH Air Guidance Values**	**NYSDOH Immediate Action Levels**	**NYSDOH May 2017 / February 2024 Matrix Recommendations**	**Final Action Recommended**
Sample Locations:	**Sub-Slab Soil Vapor Concentrationss**	**Basement Indoor Air Concentrationss**	**First Floor Indoor Air Concentrationss**	**Outdoor Air Concentrationss**				
Volatile Organic Compounds (µg/m³)								
1,1,1-Trichloroethane	**0.53**	< 0.15	< 0.15	< 0.15	---	---	No Further Action	**No Further Action**
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	**1.1**	**1.1**	**0.53**	**0.58**	---	---	---	
1,1-Dichloroethene	< 0.30	< 0.11	**0.11**	< 0.11	---	---	No Further Action	
1,2,4-Trimethylbenzene	**1.1**	**0.78**	**0.67**	**0.54**	---	---	No Further Action	
1,2-Dichloropropane	< 0.25	< 0.087	**0.17**	< 0.087	---	---	---	
1,3,5-Trimethylbenzene	**0.30**	**0.22**	**0.17**	**0.16**	---	---	No Further Action	
1,4-Dichlorobenzene	< 0.39	**0.30**	**0.18**	**0.14**	---	---	---	
1,4-Dioxane	**0.71**	< 0.10	< 0.10	< 0.10	---	---	---	
2-Butanone (MEK)	**5.8**	**1.7**	**1.3**	< 1.1	---	---	---	
2-Hexanone (MBK)	< 0.20	**0.40**	< 0.071	< 0.071	---	---	---	
4-Ethyltoluene	< 0.30	**0.20**	**0.15**	**0.13**	---	---	---	
Acetone	**180**	**19**	**47**	**6.9**	---	---	---	
Benzene	**0.35**	**0.48**	**0.46**	**0.43**	---	---	No Further Action	
Bromodichloromethane	**0.51**	< 0.16	< 0.16	< 0.16	---	---	---	
Bromomethane	< 0.26	**0.10**	< 0.090	< 0.090	---	---	---	
Carbon Disulfide	**1.8**	**0.33**	**0.13**	< 0.10	---	---	---	
Carbon Tetrachloride	< 0.50	**0.41**	**0.46**	**0.45**	---	---	No Further Action	
Chloroform	**74**	**0.85**	**1.2**	**0.16**	---	---	---	
Chloromethane	**0.25**	**1.0**	**1.1**	**1.0**	---	---	---	
Cyclohexane	< 0.21	**0.26**	**0.14**	**0.20**	---	---	No Further Action	
Dichlorodifluoromethane (Freon 12)	< 0.48	**1.7**	**2.0**	**2.1**	---	---	---	
Ethanol	**27**	**69**	**1400**	**28**	---	---	---	
Ethyl Acetate	< 1.8	**2.2**	**5.1**	**0.68**	---	---	---	
Ethylbenzene	**0.34**	**0.67**	**0.43**	**0.35**	---	---	No Further Action	
Heptane	**0.36**	**0.60**	**0.49**	**0.44**	---	---	No Further Action	
Isopropanol	**230**	**6.9**	**25**	**2.5**	---	---	---	
m&p-Xylene	**1.1**	**2.6**	**1.3**	**1.0**	---	---	No Further Action	
Naphthalene	**0.40**	**0.19**	**0.16**	< 0.14	---	---	No Further Action	
o-Xylene	**0.56**	**0.92**	**0.58**	**0.41**	---	---	No Further Action	
Styrene	**0.32**	**0.45**	**0.35**	< 0.078	---	---	---	
Tetrachloroethene	**2.2**	**0.54**	**0.30**	**0.26**	30	300	No Further Action	
Tetrahydrofuran	**0.82**	< 0.17	**0.57**	< 0.17	---	---	---	
Toluene	**13**	**2.6**	**2.4**	**2.0**	---	---	No Further Action	
Trichloroethene	**0.38**	< 0.13	< 0.13	< 0.13	2	20	No Further Action	
Trichlorofluoromethane (Freon 11)	**1.5**	**1.5**	**1.2**	**1.3**	---	---	---	
Vinyl Acetate	< 1.9	**1.8**	**1.8**	< 0.66	---	---	---	

Legend:

50	Decision Matrices recommend a specific action based on parameter concentrations
25	Parameter was detected at concentrations exceeding the NYSDOH Immediate Action Levels
5.0	Parameter was detected at concentrations exceeding the NYSDOH Air Guidance Values
1.0	Parameter was detected at concentrations exceeding the laboratory reporting limit
< 1.0	Parameter was not detected at concentrations exceeding the laboratory reporting limit

Notes:
All concentrations in micrograms per cubic meter (µg/m³)
Recommendations based on May 2017 NYSDOH Soil Vapor/Indoor Air Matrices (Decision Matrices)
E = Reported result is estimated; value reported over verified calibration range
J = Detected but below the Reporting Limit; therefore, result is an estimated concentration
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Table 2
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

Property 18								
Date Collected:	**11/28-11/29/2023**	**11/28-11/29/2023**	**11/28-11/29/2023**	**11/28-11/29/2023**	**NYSDOH Air Guidance Values**	**NYSDOH Immediate Action Levels**	**NYSDOH May 2017 / February 2024 Matrix Recommendations**	**Final Action Recommended**
Sample Locations:	**Sub-Slab Soil Vapor Concentrations**	**Basement Indoor Air Concentrationss**	**First Floor Indoor Air Concentrationss**	**Outdoor Air Concentrationss**				
Volatile Organic Compounds (µg/m³)								
1,1,1-Trichloroethane	**1.1**	< 0.19	< 0.19	< 0.19	---	---	No Further Action	**No Further Action**
1,1,2-Trichlorotrifluoroethane (Freon 113)	**0.74 J**	**0.47 J**	**0.81 J**	**0.50 J**	---	---	---	
1,1-Dichloroethene	< 0.79	< 0.14	< 0.14	**0.21**	---	---	No Further Action	
1,2,4-Trimethylbenzene	**6.6**	**0.40**	**0.42**	**0.18**	---	---	No Further Action	
1,2-Dichloroethane	< 0.81	< 0.14	**0.079 J**	< 0.14	---	---	---	
1,2-Dichloropropane	< 0.92	< 0.16	**0.11 J**	< 0.16	---	---	---	
1,2-Dichlorotetrafluoroethane (Freon 114)	< 1.4	**0.11 J**	< 0.24	< 0.24	---	---	---	
1,3,5-Trimethylbenzene	**2.2**	**0.11 J**	**0.13 J**	< 0.17	---	---	No Further Action	
1,4-Dichlorobenzene	< 1.2	**0.19 J**	**0.16 J**	< 0.21	---	---	---	
1-Ethyl-4-methyl-benzene	**1.4**	< 0.17	< 0.17	< 0.17	---	---	---	
2-Butanone (MEK)	**11 J**	< 4.1	**1.6 J**	**2.7 J**	---	---	---	
2-Hexanone (Methyl butyl ketone/MBK)	< 0.82	**0.30**	**0.51**	**0.49**	---	---	---	
Acetone	**27**	**6.9**	**48**	**10**	---	---	---	
Benzene	**1.1**	**0.44**	**0.65**	**0.75**	---	---	No Further Action	
Carbon disulfide	< 6.2	< 1.1	< 1.1	**0.40 J**	---	---	---	
Carbon tetrachloride	**0.43 J**	**0.61**	**0.49**	**0.49**	---	---	No Further Action	
Chloroethane	< 0.53	< 0.092	< 0.092	**0.064 J**	---	---	---	
Chloroform	**2.8**	**0.79**	**0.90**	< 0.17	---	---	---	
Chloromethane	**0.28 J**	**0.75**	**1.3**	**1.0**	---	---	---	
Cyclohexane	**0.51 J**	**0.11 J**	< 0.12	**0.28**	---	---	No Further Action	
Dichlorodifluoromethane	**2.6**	**2.5**	**4.0**	**2.1**	---	---	---	
Ethanol	**85**	**16**	**830 E**	**9.4**	---	---	---	
Ethyl Acetate	**5.1 J**	< 1.3	**6.1**	< 1.3	---	---	---	
Ethylbenzene	**1.1**	**0.40**	**0.30**	**0.29**	---	---	No Further Action	
Heptane	**1.2**	**0.57**	**0.66**	**6.2**	---	---	No Further Action	
Hexane	< 28	< 4.9	< 4.9	**5.9**	---	---	No Further Action	
Isopropyl Alcohol	**230**	**3.2 J**	**8.0**	**2.3 J**	---	---	---	
m,p-Xylene	**3.5**	**1.4**	**1.0**	**0.68**	---	---	No Further Action	
Methylene chloride	< 6.9	**0.74 J**	**0.47 J**	**0.49 J**	60	---	No Further Action	
Naphthalene	< 1.0	**0.22**	**0.31**	< 0.18	---	---	No Further Action	
o-Xylene	**1.3**	**0.49**	**0.41**	**0.42**	---	---	No Further Action	
Propene	**28**	< 2.4	< 2.4	< 2.4	---	---	---	
Styrene	**0.65 J**	**0.19**	**0.29**	< 0.15	---	---	---	
Tetrachloroethene	**0.73 J**	**0.53**	**0.35**	**0.41**	30	300	No Further Action	
Tetrahydrofuran	**11**	< 1.0	< 1.0	**0.33 J**	---	---	---	
Toluene	**3.9**	**1.2**	**1.6**	**1.1**	---	---	No Further Action	
Trichlorofluoromethane	**1.4 J**	**1.2**	**1.4**	**1.3**	---	---	---	
Vinyl acetate	< 14	**1.3 J**	**2.3 J**	**3.3**	---	---	---	

Legend:

50	Decision Matrices recommend a specific action based on parameter concentrations
25	Parameter was detected at concentrations exceeding the NYSDOH Immediate Action Levels
5.0	Parameter was detected at concentrations exceeding the NYSDOH Air Guidance Values
1.0	Parameter was detected at concentrations exceeding the laboratory reporting limit
< 1.0	Parameter was not detected at concentrations exceeding the laboratory reporting limit

Notes:
All concentrations in micrograms per cubic meter (µg/m³)
Recommendations based on May 2017 and February 2024 NYSDOH Soil Vapor/Indoor Air Matrices (Decision Matrices)
E = Reported result is estimated; value reported over verified calibration range
J = Detected but below the Reporting Limit; therefore, result is an estimated concentration
--- = Standard Not Promulgated

Table 2
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

Property 21								
Date Collected:	**1/19-1/20/2023**	**1/19-1/20/2023**	**1/19-1/20/2023**	**1/19-1/20/2023**	**NYSDOH Air Guidance Values**	**NYSDOH Immediate Action Levels**	**NYSDOH May 2017 / February 2024 Matrix Recommendations**	**Final Action Recommended**
Sample Locations:	**Sub-Slab Soil Vapor Concentrationss**	**Basement Indoor Air Concentrationss**	**First Floor Indoor Air Concentrationss**	**Outdoor Air Concentrations**				
Volatile Organic Compounds (µg/m³)								
1,1,1-Trichloroethane	**2.4**	< 0.27	< 0.27	< 0.27	---	---	No Further Action	**Mitigate**
1,1,2-Trichlorotrifluoroethane (Freon 113)	**0.71 J**	**0.90 J**	**0.93 J**	**0.64 J**	---	---	---	
1,1-Dichloroethane	**0.25**	< 0.20	< 0.20	< 0.20	---	---	---	
1,2,4-Trimethylbenzene	**0.91**	**0.55**	**0.56**	**0.35**	---	---	No Further Action	
1,2-Dichloroethane	< 0.20	**0.21**	< 0.20	< 0.20	---	---	---	
1,2-Dichloropropane	< 0.23	**0.26**	< 0.23	< 0.23	---	---	---	
1,3 Butadiene	**0.31**	**0.21**	**0.18**	**0.16**	---	---	---	
1,3,5-Trimethylbenzene	**0.27**	**0.21 J**	**0.15 J**	< 0.25	---	---	No Further Action	
1,4-Dichlorobenzene	< 0.30	**0.24 J**	**0.22 J**	< 0.30	---	---	---	
1,4-Dioxane	< 1.8	**0.42 J**	< 1.8	< 1.8	---	---	---	
1-Ethyl-4-methyl-benzene	**0.25**	**0.17 J**	< 0.25	< 0.25	---	---	---	
2-Butanone (MEK)	**3.7 J**	**9.9**	**3.1 J**	< 5.9	---	---	---	
2-Hexanone (Methyl butyl ketone/MBK)	**1.1**	**0.72**	< 0.20	**0.23**	---	---	---	
Acetone	**4.1 J**	**32**	**24**	**12**	---	---	---	
Acrolein	< 2.3	**1.8 J**	**1.2 J**	< 2.3	---	---	---	
Benzene	**0.57**	**1.3**	**1.1**	**0.81**	---	---	No Further Action	
Bromodichloromethane	< 0.34	**0.29 J**	< 0.34	< 0.34	---	---	---	
Bromomethane	< 0.19	**0.15 J**	**0.14 J**	< 0.19	---	---	---	
Carbon disulfide	**1.3 J**	**0.24 J**	< 1.6	< 1.6	---	---	---	
Carbon tetrachloride	< 0.31	**0.75**	**0.74**	< 0.31	---	---	No Further Action	
Chlorobenzene	< 0.23	**0.17 J**	< 0.23	< 0.23	---	---	---	
Chloroethane	< 0.13	**0.14**	< 0.13	< 0.13	---	---	---	
Chloroform	**16**	**0.68**	**0.63**	< 0.24	---	---	---	
Chloromethane	**0.30**	**1.4**	**1.7**	**0.84**	---	---	---	
cis-1,2-Dichloroethene	**2.4**	< 0.20	< 0.20	< 0.20	---	---	No Further Action	
Cyclohexane	**0.94**	**0.42**	**0.32**	**0.13 J**	---	---	No Further Action	
Dichlorodifluoromethane	**2.1**	**2.0**	**2.5**	**1.3**	---	---	---	
Ethanol	**2.8 J**	**59**	**110**	**4.5**	---	---	---	
Ethyl Acetate	< 1.8	**7.1**	**1.4 J**	< 1.8	---	---	---	
Ethylbenzene	**0.37**	**0.40**	**0.34**	**0.26**	---	---	No Further Action	
Heptane	**1.0**	**1.2**	**1.5**	**0.25**	---	---	No Further Action	
Hexane	**26**	**1.3 J**	**1.0 J**	< 7.0	---	---	No Further Action	
Isopropyl Alcohol	< 4.9	**3.5 J**	**3.7 J**	**2.3 J**	---	---	---	
m,p-Xylene	**1.1**	**1.1**	**1.1**	**0.66**	---	---	No Further Action	
Methyl isobutyl ketone (MIBK)	< 0.20	**0.90**	< 0.20	< 0.20	---	---	---	
Naphthalene	**0.48**	< 0.26	**0.26 J**	< 0.26	---	---	No Further Action	
o-Xylene	**0.48**	**0.46**	**0.40**	**0.28**	---	---	No Further Action	
Propene	**7.3**	< 3.4	< 3.4	< 3.4	---	---	---	
Styrene	**0.44**	**0.23**	**0.20 J**	< 0.21	---	---	---	
Tetrachloroethene	**650**	**2.1**	**1.0**	**0.28 J**	30	300	No Further Action	
Tetrahydrofuran	**0.45 J**	**17**	**4.7**	< 1.5	---	---	---	
Toluene	**1.8**	**3.5**	**2.0**	**5.1**	---	---	No Further Action	
trans-1,2-Dichloroethene	**0.16 J**	< 0.20	< 0.20	< 0.20	---	---	---	
Trichloroethene	**67**	**0.29**	< 0.27	< 0.27	2	20	**Mitigate**	
Trichlorofluoromethane	**2.5**	**1.7**	**2.5**	**1.6**	---	---	---	
Vinyl acetate	< 1.8	**2.7**	**1.4 J**	**1.1 J**	---	---	---	

Legend:

50	Decision Matrices recommend a specific action based on parameter concentrations
25	Parameter was detected at concentrations exceeding the NYSDOH Immediate Action Levels
5.0	Parameter was detected at concentrations exceeding the NYSDOH Air Guidance Values
1.0	Parameter was detected at concentrations exceeding the laboratory reporting limit
< 1.0	Parameter was not detected at concentrations exceeding the laboratory reporting limit

Notes:
All concentrations in micrograms per cubic meter (µg/m³)
Recommendations based on May 2017 NYSDOH Soil Vapor/Indoor Air Matrices (Decision Matrices)
E = Reported result is estimated; value reported over verified calibration range
J = Detected but below the Reporting Limit; therefore, result is an estimated concentration
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Table 2
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

Property 23								
Date Collected:	**12/13-12/14/2023**	**12/13-12/14/2023**	**12/13-12/14/2023**	**12/13-12/14/2023**	**NYSDOH Air Guidance Values**	**NYSDOH Immediate Action Levels**	**NYSDOH May 2017 / February 2024 Matrix Recommendations**	**Final Action Recommended**
Sample Locations:	**Sub-Slab Soil Vapor Concentrations**	**Basement Indoor Air Concentrationss**	**First Floor Indoor Air Concentrations**	**Outdoor Air Concentrations**				
Volatile Organic Compounds (µg/m³)								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	**0.72**	**0.61**	**0.61**	**0.64**	---	---	---	
1,1-Dichloroethane	**0.13**	< 0.045	< 0.045	< 0.045	---	---	---	
1,1-Dichloroethene	< 0.11	< 0.039	**0.13**	< 0.039	---	---	No Further Action	
1,2,4-Trimethylbenzene	**6.2**	**0.32**	< 0.079	**0.25**	---	---	No Further Action	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	< 0.28	**0.14**	**0.12**	**0.14**	---	---	---	
1,2-Dichloroethane	< 0.15	**0.088**	**0.11**	**0.10**	---	---	---	
1,2-Dichloropropane	< 0.13	**0.045**	< 0.044	< 0.044	---	---	---	
1,3,5-Trimethylbenzene	**2.4**	< 0.088	< 0.088	< 0.088	---	---	No Further Action	
2-Butanone (MEK)	**7.5**	< 1.2	**1.3**	**1.8**	---	---	---	
2-Hexanone (MBK)	< 0.18	< 0.062	**0.083**	**0.29**	---	---	---	
4-Ethyltoluene	**1.3**	**0.075**	< 0.074	< 0.075	---	---	---	
Acetone	**29**	**14**	**20**	**11**	---	---	---	
Benzene	**0.88**	**0.93**	**1.4**	**0.97**	---	---	No Further Action	
Bromodichloromethane	**0.31**	< 0.064	**0.14**	< 0.064	---	---	---	
Carbon Disulfide	**0.67**	< 0.21	< 0.21	< 0.21	---	---	---	
Carbon Tetrachloride	**0.63**	**0.58**	**0.52**	**0.59**	---	---	No Further Action	
Chloroethane	**0.18**	< 0.058	**0.073**	< 0.058	---	---	---	
Chloroform	**24**	**0.38**	**1.2**	**0.16**	---	---	---	
Chloromethane	**0.47**	**0.95**	**1.1**	**1.0**	---	---	---	
cis-1,2-Dichloroethene	**0.39**	< 0.043	**0.075**	< 0.043	---	---	No Further Action	**No Further Action**
Cyclohexane	**0.20**	**0.30**	**0.25**	**0.31**	---	---	No Further Action	
Dichlorodifluoromethane (Freon 12)	**2.7**	**2.8**	**2.8**	**2.9**	---	---	---	
Ethanol	**250**	**89**	1800	**14**	---	---	---	
Ethyl Acetate	< 1.0	**0.87**	**2.9**	< 0.36	---	---	---	
Ethylbenzene	**0.90**	**0.44**	**0.10**	**0.26**	---	---	No Further Action	
Heptane	**1.7**	**0.67**	**0.54**	**1.4**	---	---	No Further Action	
Hexane	< 4.7	< 1.6	< 1.6	**2.5**	---	---	No Further Action	
Isopropanol	**550**	**9.5**	**8.1**	**3.1**	---	---	---	
m&p-Xylene	**2.8**	**1.4**	**0.19**	**0.75**	---	---	No Further Action	
Methylene Chloride	< 0.93	**1.1**	**0.59**	**0.52**	60	---	No Further Action	
o-Xylene	**1.0**	**0.45**	**0.06**	**0.27**	---	---	No Further Action	
Styrene	**0.38**	**0.089**	< 0.079	< 0.080	---	---	---	
Tetrachloroethene	**13**	**1.1**	**1.0**	**0.50**	30	300	No Further Action	
Tetrahydrofuran	**10**	**0.23**	**0.59**	**0.37**	---	---	---	
Toluene	**4.6**	**2.7**	**1.8**	**2.3**	---	---	No Further Action	
trans-1,2-Dichloroethene	< 0.13	**0.075**	**0.086**	**0.066**	---	---	---	
Trichloroethene	**4.6**	< 0.076	< 0.076	< 0.076	2	20	No Further Action	
Trichlorofluoromethane (Freon 11)	**1.7**	**1.5**	**1.4**	**1.4**	---	---	---	
Vinyl Acetate	**1.8**	**1.3**	**2.4**	**2.3**	---	---	---	

Legend:

50	Decision Matrices recommend a specific action based on parameter concentrations
25	Parameter was detected at concentrations exceeding the NYSDOH Immediate Action Levels
5.0	Parameter was detected at concentrations exceeding the NYSDOH Air Guidance Values
1.0	Parameter was detected at concentrations exceeding the laboratory reporting limit
< 1.0	Parameter was not detected at concentrations exceeding the laboratory reporting limit

Notes:
All concentrations in micrograms per cubic meter (µg/m³)
Recommendations based on May 2017 and February 2024 NYSDOH Soil Vapor/Indoor Air Matrices (Decision Matrices)
E = Reported result is estimated; value reported over verified calibration range
J = Detected but below the Reporting Limit; therefore, result is an estimated concentration
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Table 2
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

Property 24								
Date Collected:	**1/24-1/25/2023**	**1/24-1/25/2023**	**1/24-1/25/2023**	**1/24-1/25/2023**	**NYSDOH Air Guidance Values**	**NYSDOH Immediate Action Levels**	**NYSDOH May 2017 / February 2024 Matrix Recommendations**	**Final Action Recommended**
Sample Locations:	**Sub-Slab Soil Vapor Concentrationss**	**Basement Indoor Air Concentrationss**	**First Floor Indoor Air Concentrationss**	**Outdoor Air Concentrationss**				
Volatile Organic Compounds (µg/m³)								
1,1,2-Trichlorotrifluoroethane (Freon 113)	**0.64 J**	**0.54 J**	**0.58 J**	**0.59 J**	---	---	---	**No Further Action**
1,2,4-Trimethylbenzene	**0.46**	**0.35**	**0.35**	**0.18 J**	---	---	No Further Action	
1,3,5-Trimethylbenzene	**0.13 J**	< 0.25	< 0.25	< 0.25	---	---	No Further Action	
2-Butanone (MEK)	< 5.9	< 5.9	**1.7 J**	< 5.9	---	---	---	
Acetone	**6.9**	**7.8**	**25**	**8.0**	---	---	---	
Acrolein	< 2.3	< 2.3	**2.6**	< 2.3	---	---	---	
Benzene	**1.1**	**0.84**	**1.6**	**0.97**	---	---	No Further Action	
Carbon disulfide	**0.52 J**	**0.81 J**	**0.19 J**	< 1.6	---	---	---	
Carbon tetrachloride	**0.33**	**0.52**	< 0.31	< 0.31	---	---	No Further Action	
Chloroethane	< 0.13	**0.13 J**	< 0.13	< 0.13	---	---	---	
Chloroform	**3.5**	**0.83**	**1.3**	< 0.24	---	---	---	
Chloromethane	**0.46**	**1.5**	**1.2**	**1.2**	---	---	---	
Cyclohexane	< 0.17	**0.12 J**	**0.16 J**	**0.12 J**	---	---	No Further Action	
Dichlorodifluoromethane	**3.0**	**2.9**	**3.0**	**3.1**	---	---	---	
Ethanol	**22**	**40**	**330 D**	**17**	---	---	---	
Ethyl Acetate	< 1.8	< 1.8	**1.9**	< 1.8	---	---	---	
Ethylbenzene	**0.29**	**0.22**	**0.23**	**0.14 J**	---	---	No Further Action	
Heptane	**0.24**	**0.28**	**0.58**	**0.24**	---	---	No Further Action	
Hexane	**6.8 J**	< 7.0	< 7.0	< 7.0	---	---	No Further Action	
Isopropyl Alcohol	**19**	**2.9 J**	**8.7**	**6.1**	---	---	---	
m,p-Xylene	**0.74**	**0.65**	**0.57**	**0.38 J**	---	---	No Further Action	
Methyl isobutyl ketone (MIBK)	< 0.20	**1.0**	< 0.20	< 0.20	---	---	---	
Methylene chloride	**2.4**	< 1.7	< 1.7	< 1.7	60	---	No Further Action	
Naphthalene	**0.23 J**	< 0.26	< 0.26	< 0.26	---	---	No Further Action	
o-Xylene	**0.33**	**0.26**	**0.23**	**0.13 J**	---	---	No Further Action	
Propene	**4.8**	< 3.4	< 3.4	< 3.4	---	---	---	
Styrene	**0.30**	< 0.21	**0.15 J**	< 0.21	---	---	---	
Tetrachloroethene	**5.2**	**0.94**	**0.91**	< 0.34	30	300	No Further Action	
Tetrahydrofuran	< 1.5	**0.30 J**	**1.2 J**	< 1.5	---	---	---	
Toluene	**1.5**	**0.83**	**1.2**	**0.83**	---	---	No Further Action	
Trichloroethene	**28**	< 0.27	< 0.27	< 0.27	2	20	No Further Action	
Trichlorofluoromethane	**1.5**	**1.3**	**1.4**	**1.4**	---	---	---	

Legend:

50	Decision Matrices recommend a specific action based on parameter concentrations
25	Parameter was detected at concentrations exceeding the NYSDOH Immediate Action Levels
5.0	Parameter was detected at concentrations exceeding the NYSDOH Air Guidance Values
1.0	Parameter was detected at concentrations exceeding the laboratory reporting limit
< 1.0	Parameter was not detected at concentrations exceeding the laboratory reporting limit

Notes:
All concentrations in micrograms per cubic meter (µg/m³)
Recommendations based on May 2017 NYSDOH Soil Vapor/Indoor Air Matrices (Decision Matrices)
E = Reported result is estimated; value reported over verified calibration range
J = Detected but below the Reporting Limit; therefore, result is an estimated concentration
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Table 2
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

Property 26								
Date Collected:	**1/25-1/26/2023**	**1/25-1/26/2023**	**1/25-1/26/2023**	**1/25-1/26/2023**	**NYSDOH Air Guidance Values**	**NYSDOH Immediate Action Levels**	**NYSDOH May 2017 / February 2024 Matrix Recommendations**	**Final Action Recommended**
Sample Locations:	**Sub-Slab Soil Vapor Concentrations**	**Basement Indoor Air Concentrationss**	**First Floor Indoor Air Concentrationss**	**Outdoor Air Concentrationss**				
Volatile Organic Compounds (µg/m³)								
1,1,1-Trichloroethane	**1.1**	< 0.27	< 0.27	< 0.27	---	---	No Further Action	**No Further Action**
1,1,2-Trichlorotrifluoroethane (Freon 113)	**0.53 J**	**0.58 J**	**0.66 J**	**0.59 J**	---	---	---	
1,2,4-Trimethylbenzene	**0.73**	**1.3**	**0.18 J**	**0.18 J**	---	---	No Further Action	
1,2-Dichlorobenzene	**0.22 J**	< 0.30	< 0.30	< 0.30	---	---	---	
1,3 Butadiene	< 0.11	< 0.11	**0.51**	< 0.11	---	---	---	
1,3,5-Trimethylbenzene	**0.27**	**0.18 J**	< 0.25	< 0.25	---	---	No Further Action	
1-Ethyl-4-methyl-benzene	**0.19 J**	**0.22 J**	< 0.25	< 0.25	---	---	---	
2-Butanone (MEK)	**3.4 J**	< 5.9	< 5.9	< 5.9	---	---	---	
Acetone	**110**	**8.9**	**23**	**8.0**	---	---	---	
Acrolein	**0.70 J**	< 2.3	**1.2 J**	< 2.3	---	---	---	
Benzene	**2.0**	**1.0**	**1.3**	**0.97**	---	---	No Further Action	
Bromoichloromethane	**0.31 J**	< 0.34	< 0.34	< 0.34	---	---	---	
Carbon disulfide	**1.1 J**	< 1.6	< 1.6	< 1.6	---	---	---	
Carbon tetrachloride	**0.27 J**	< 0.31	**0.57**	< 0.31	---	---	No Further Action	
Chloroform	**27**	**0.29**	**1.3**	< 0.24	---	---	---	
Chloromethane	**0.53**	**1.3**	**1.4**	**1.2**	---	---	---	
Cyclohexane	**0.63**	< 0.17	**0.13 J**	**0.12 J**	---	---	No Further Action	
Dichloroifluoromethane	**2.5**	**3.1**	**3.0**	**3.1**	---	---	---	
Ethanol	**87**	**33**	**81**	**17**	---	---	---	
Ethylbenzene	**0.82**	**0.88**	**0.20 J**	**0.14 J**	---	---	No Further Action	
Heptane	**0.91**	**0.27**	**0.64**	**0.24**	---	---	No Further Action	
Hexane	**9.2**	< 7.0	< 7.0	< 7.0	---	---	No Further Action	
Isopropyl Alcohol	**6.3**	**8.9**	**3.0 J**	**6.1**	---	---	---	
m,p-Xylene	**2.0**	**2.5**	**0.46**	**0.38 J**	---	---	No Further Action	
Methyl isobutyl ketone (MIBK)	**0.46**	**0.28**	< 0.20	< 0.20	---	---	---	
Naphthalene	**0.42**	**0.84**	**0.46**	< 0.26	---	---	No Further Action	
o-Xylene	**1.2**	**1.4**	**0.21 J**	**0.13 J**	---	---	No Further Action	
Propene	**5.8**	< 3.4	< 3.4	< 3.4	---	---	---	
Styrene	**0.34**	**0.20 J**	**0.15 J**	< 0.21	---	---	---	
Tetrachloroethene	**40**	**0.58**	**0.31 J**	< 0.34	30	300	No Further Action	
Tetrahyrofuran	**0.58 J**	< 1.5	**0.39 J**	< 1.5	---	---	---	
Toluene	**2.1**	**1.2**	**0.90**	**0.83**	---	---	No Further Action	
Trichloroethene	**2.2**	< 0.27	< 0.27	< 0.27	2	20	No Further Action	
Trichlorofluoromethane	**1.4**	**1.4**	**1.4**	**1.4**	---	---	---	
Vinyl acetate	< 1.8	< 1.8	**1.1 J**	< 1.8	---	---	---	

Legend:

50	Decision Matrices recommend a specific action based on parameter concentrations
25	Parameter was detected at concentrations exceeding the NYSDOH Immediate Action Levels
5.0	Parameter was detected at concentrations exceeding the NYSDOH Air Guidance Values
1.0	Parameter was detected at concentrations exceeding the laboratory reporting limit
< 1.0	Parameter was not detected at concentrations exceeding the laboratory reporting limit

Notes:
All concentrations in micrograms per cubic meter (µg/m³)
Recommendations based on May 2017 NYSDOH Soil Vapor/Indoor Air Matrices (Decision Matrices)
E = Reported result is estimated; value reported over verified calibration range
J = Detected but below the Reporting Limit; therefore, result is an estimated concentration
--- = Standard Not Promulgated

Table 2
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

Property 27								
Date Collected:	**2/13-2/14/2023**	**2/13-2/14/2023**	**2/13-2/14/2023**	**2/13-2/14/2023**	**NYSDOH Air Guidance Values**	**NYSDOH Immediate Action Levels**	**NYSDOH May 2017 / February 2024 Matrix Recommendations**	**Final Action Recommended**
Sample Locations:	**Sub-Slab Soil Vapor Concentrations**	**Basement Indoor Air Concentrationss**	**First Floor Indoor Air Concentrationss**	**Outdoor Air Concentrationss**				
Volatile Organic Compounds (µg/m³)								
1,1,1-Trichloroethane	**0.23 J**	< 0.27	< 0.27	< 0.27	---	---	No Further Action	**No Further Action**
1,1,2-Trichlorotrifluoroethane (Freon 113)	**0.51 J**	**0.52 J**	**0.54 J**	**0.52 J**	---	---	---	
1,2,4-Trimethylbenzene	**0.40**	**0.24 J**	**0.20 J**	**0.18 J**	---	---	No Further Action	
2-Butanone (MEK)	**1.7 J**	**1.8 J**	< 5.9	< 5.9	---	---	---	
Acetone	**4.7 J**	**54**	**16**	**8.2**	---	---	---	
Acrolein	< 2.3	**1.7 J**	**1.8 J**	< 2.3	---	---	---	
Benzene	**0.30**	**0.97**	**1.1**	**0.88**	---	---	No Further Action	
Bromoform	< 0.52	< 0.52	**0.36 J**	**0.38 J**	---	---	---	
Carbon disulfide	**1.6**	< 1.6	< 1.6	< 1.6	---	---	---	
Carbon tetrachloride	**0.31 J**	**0.55**	**0.55**	**0.47**	---	---	No Further Action	
Chloroform	**6.4**	**1.4**	**0.23 J**	< 0.24	---	---	---	
Chloromethane	**0.15 J**	**1.4**	**1.3**	**1.3**	---	---	---	
Cyclohexane	**0.28**	**0.15 J**	**0.18**	**0.14 J**	---	---	No Further Action	
Dichlorodifluoromethane	**2.9**	**2.6**	**3.2**	**2.8**	---	---	---	
Ethanol	**6.1**	**57**	**80**	**33**	---	---	---	
Ethyl Acetate	< 1.8	< 1.8	**2.2**	< 1.8	---	---	---	
Ethylbenzene	**0.27**	**0.19 J**	**0.19 J**	**0.18 J**	---	---	No Further Action	
Heptane	**0.31**	**0.51**	**0.39**	**0.35**	---	---	No Further Action	
Isopropyl Alcohol	**12**	**13**	**63**	**110**	---	---	---	
m,p-Xylene	**0.57**	**0.51**	**0.49**	**0.45**	---	---	No Further Action	
Methyl isobutyl ketone (MIBK)	< 0.20	**0.23**	**0.17 J**	< 0.20	---	---	---	
Naphthalene	**0.56**	**0.20 J**	< 0.26	< 0.26	---	---	No Further Action	
o-Xylene	**0.30**	**0.20 J**	**0.22**	**0.16 J**	---	---	No Further Action	
Propene	**2.0 J**	< 3.4	< 3.4	< 3.4	---	---	---	
Styrene	**0.52**	< 0.21	< 0.21	< 0.21	---	---	---	
Tetrachloroethene	**7.3**	**0.96**	**0.42**	**0.30 J**	30	300	No Further Action	
Tetrahydrofuran	**1.4 J**	< 1.5	< 1.5	< 1.5	---	---	---	
Toluene	**0.84**	**0.89**	**1.1**	**0.90**	---	---	No Further Action	
Trichloroethene	**4.2**	< 0.27	< 0.27	< 0.27	2	20	No Further Action	
Trichlorofluoromethane	**1.3**	**1.3**	**1.3**	**1.3**	---	---	---	

Legend:

50	Decision Matrices recommend a specific action based on parameter concentrations
25	Parameter was detected at concentrations exceeding the NYSDOH Immediate Action Levels
5.0	Parameter was detected at concentrations exceeding the NYSDOH Air Guidance Values
1.0	Parameter was detected at concentrations exceeding the laboratory reporting limit
< 1.0	Parameter was not detected at concentrations exceeding the laboratory reporting limit

Notes:
All concentrations in micrograms per cubic meter (µg/m³)
Recommendations based on May 2017 NYSDOH Soil Vapor/Indoor Air Matrices (Decision Matrices)
E = Reported result is estimated; value reported over verified calibration range
J = Detected but below the Reporting Limit; therefore, result is an estimated concentration
--- = Standard Not Promulgated

Table 2
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

Property 28							
Date Collected:	**1/24-1/25/2023**	**1/24-1/25/2023**	**1/24-1/25/2023**	**NYSDOH Air Guidance Values**	**NYSDOH Immediate Action Levels**	**NYSDOH May 2017 / February 2024 Matrix Recommendations**	**Final Action Recommended**
Sample Locations:	**First Floor Indoor Air Concentrationss**	**First Floor Indoor Air Concentrationss**	**Outdoor Air Concentrationss**				
Volatile Organic Compounds (µg/m³)							
1,1,2-Trichlorotrifluoroethane (Freon 113)	**0.81 J**	**0.54 J**	**0.59 J**	---	---	---	**Identify Source(s) or Resample or Mitigate**
1,2,4-Trimethylbenzene	**1.3**	**1.1**	**0.18 J**	---	---	No Further Action	
1,3,5-Trimethylbenzene	**0.37**	**0.34**	< 0.25	---	---	No Further Action	
1-Ethyl-4-methyl-benzene	**0.23 J**	**0.20 J**	< 0.25	---	---	---	
2-Butanone (MEK)	**12**	**12**	< 5.9	---	---	---	
Acetone	**1900**	**2000**	**8.0**	---	---	---	
Acrolein	**1.1 J**	< 2.3	< 2.3	---	---	---	
Benzene	**1.6**	**1.1**	**0.97**	---	---	No Further Action	
Carbon disulfdie	**20**	< 1.6	< 1.6	---	---	---	
Carbon tetrachloride	**0.60**	**0.54**	< 0.31	---	---	No Further Action	
Chloroethane	**0.12 J**	< 0.13	< 0.13	---	---	---	
Chloroform	**0.24**	< 0.24	< 0.24	---	---	---	
Chloromethane	**2.7**	**1.8**	**1.2**	---	---	---	
cis-1,2-dichloroethene	**0.19 J**	< 0.20	< 0.20	---	---	No Further Action	
Cyclohexane	**0.74**	**0.79**	**0.12 J**	---	---	No Further Action	
Dichloroifluoromethane	**3.2**	**3.2**	**3.1**	---	---	---	
Ethanol	**160**	**160**	**17**	---	---	---	
Ethyl Acetate	**9.1**	**7.0**	< 1.8	---	---	---	
Ethylbenzene	**2.1**	**2.3**	**0.14 J**	---	---	No Further Action	
Heptane	**2.5**	**2.6**	**0.24**	---	---	No Further Action	
Hexane	**3.2 J**	**4.3 J**	< 7.0	---	---	No Further Action	
Isopropyl Alcohol	**890**	**1100**	**6.1**	---	---	---	
m,p-Xylene	**8.8**	**9.4**	**0.38 J**	---	---	No Further Action	
Methyl isobutyl ketone (MIBK)	**1.7**	< 0.20	< 0.20	---	---	---	
Methylene chloride	**1.1 J**	**0.84 J**	< 1.7	60	---	No Further Action	
Naphthalene	**0.66**	**0.36**	< 0.26	---	---	No Further Action	
o-Xylene	**2.9**	**2.9**	**0.13 J**	---	---	No Further Action	
Styrene	**0.33**	**0.23**	< 0.21	---	---	---	
Tetrachloroethene	**2.1**	**1.3**	< 0.34	30	300	No Further Action	
Tetrahyrofuran	**1.0 J**	**0.42 J**	< 1.5	---	---	---	
Toluene	**71**	**90**	**0.83**	---	---	**Identify Source(s) or Resample or Mitigate**	
Trichloroethene	**0.92**	**0.51**	< 0.27	2	20	No Further Action	
Trichlorofluoromethane	**1.3**	**1.4**	**1.4**	---	---	---	
Vinyl acetate	**2.8**	< 1.8	< 1.8	---	---	---	

Legend:

50	Decision Matrices recommend a specific action based on parameter concentrations
25	Parameter was detected at concentrations exceeding the NYSDOH Immediate Action Levels
5.0	Parameter was detected at concentrations exceeding the NYSDOH Air Guidance Values
1.0	Parameter was detected at concentrations exceeding the laboratory reporting limit
< 1.0	Parameter was not detected at concentrations exceeding the laboratory reporting limit

Notes:
All concentrations in micrograms per cubic meter (µg/m³)
Recommendations based on May 2017 NYSDOH Soil Vapor/Indoor Air Matrices (Decision Matrices)
E = Reported result is estimated; value reported over verified calibration range
J = Detected but below the Reporting Limit; therefore, result is an estimated concentration
--- = Standard Not Promulgated

Table 2
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

Property 29									
Date Collected:	**1/24-1/25/2023**	**1/24-1/25/2023**	**1/24-1/25/2023**	**1/24-1/25/2023**	**1/24-1/25/2023**	**NYSDOH Air Guidance Values**	**NYSDOH Immediate Action Levels**	**NYSDOH May 2017 / February 2024 Matrix Recommendations**	**Final Action Recommended**
Sample Locations:	**Sub-Slab Soil Vapor Concentrationss**	**Basement Indoor Air Concentrationss Boiler Room**	**Basement Indoor Air Concentrationss Living Room**	**First Floor Indoor Air Concentrationss**	**Outdoor Air Concentrationss**				
Volatile Organic Compounds (µg/m³)									
1,1,1-Trichloroethane	**0.37**	< 0.27	< 0.27	< 0.27	< 0.27	---	---	No Further Action	
1,1,2-Trichlorotrifluoroethane (Freon 113)	**0.55 J**	**0.66 J**	**0.62 J**	**0.60 J**	**0.59 J**	---	---	---	
1,2,4-Trichlorobenzene	< 0.37	< 0.37	**0.45**	< 0.37	< 0.37	---	---	---	
1,2,4-Trimethylbenzene	**13**	**0.88**	**0.58**	**0.54**	**0.18 J**	---	---	No Further Action	
1,2-Dichloroethane	< 0.20	**0.28**	**0.25**	**0.26**	< 0.20	---	---	---	
1,3,5-Trimethylbenzene	**3.4**	**0.24 J**	**0.15 J**	**0.13 J**	< 0.25	---	---	No Further Action	
1-Ethyl-4-methyl-benzene	**1.2**	**0.16 J**	< 0.25	< 0.25	< 0.25	---	---	---	
2-Butanone (MEK)	**7.1**	**1.8 J**	**2.2 J**	**1.9 J**	< 5.9	---	---	---	
2-Hexanone (Methyl butyl ketone/MBK)	**1.7**	< 0.20	< 0.20	< 0.20	< 0.20	---	---	---	
Acetone	**35**	**290**	**260**	**250**	**8.0**	---	---	---	
Acrolein	**0.79 J**	< 2.3	**1.1 J**	**0.62 J**	< 2.3	---	---	---	
Benzene	**1.9**	**0.91**	**1.0**	**1.0**	**0.97**	---	---	No Further Action	
Bromodichloromethane	< 0.34	**0.78**	< 0.34	< 0.34	< 0.34	---	---	---	
Carbon disulfide	**1.6**	**0.19 J**	**0.50 J**	**0.39 J**	< 1.6	---	---	---	
Carbon tetrachloride	**0.31 J**	**0.38**	< 0.31	< 0.31	< 0.31	---	---	No Further Action	
Chloroethane	**0.31**	< 0.13	< 0.13	< 0.13	< 0.13	---	---	---	
Chloroform	**9.5**	**6.4**	**1.7**	**2.1**	< 0.24	---	---	---	
Chloromethane	**0.28**	**1.3**	**1.4**	**1.4**	**1.2**	---	---	---	
cis-1,2-dichloroethene	< 0.20	**0.17 J**	< 0.20	< 0.20	< 0.20	---	---	No Further Action	
Cyclohexane	**1.3**	**0.26**	**0.38**	**0.34**	**0.12 J**	---	---	No Further Action	**Mitigate**
Dichloroifluoromethane	**3.1**	**3.8**	**2.9**	**2.9**	**3.1**	---	---	---	
Ethanol	**58**	**170**	**260**	**370**	**17**	---	---	---	
Ethyl Acetate	< 1.8	**3.9**	**2.4**	**2.6**	< 1.8	---	---	---	
Ethylbenzene	**0.36**	**1.3**	**0.61**	**0.60**	**0.14 J**	---	---	No Further Action	
Heptane	**2.8**	**2.8**	**1.2**	**1.2**	**0.24**	---	---	No Further Action	
Hexane	**13**	**1.0 J**	**1.1 J**	**1.0 J**	< 7.0	---	---	No Further Action	
Isopropyl Alcohol	**4.9**	**210**	**190**	**170**	**6.1**	---	---	---	
m,p-Xylene	**0.88**	**5.2**	**2.0**	**2.1**	**0.38 J**	---	---	No Further Action	
Methyl isobutyl ketone (MIBK)	**1.0**	**0.63**	**0.63**	**0.66**	< 0.20	---	---	---	
Naphthalene	**2.1**	**1.6**	**0.66**	**1.1**	< 0.26	---	---	No Further Action	
o-Xylene	**0.41**	**1.7**	**0.68**	**0.74**	**0.13 J**	---	---	No Further Action	
Propene	**7.4**	**17**	< 3.4	< 3.4	< 3.4	---	---	---	
Styrene	**0.39**	**0.35**	**0.41**	**0.33**	< 0.21	---	---	---	
Tetrachloroethene	**14**	**3.2**	**0.89**	**0.92**	< 0.34	---	---	No Further Action	
Tetrahyrofuran	**0.55 J**	**0.37 J**	**0.50 J**	**0.60 J**	< 1.5	30	300	---	
Toluene	**3.0**	**12**	**11**	**11**	**0.83**	---	---	No Further Action	
trans-1,2-dichloroethene	**0.26**	< 0.20	**0.28**	< 0.20	< 0.20	---	---	---	
Trichloroethene	**29**	**1.3**	**1.6**	**1.4**	< 0.27	2	20	**Mtigate**	
Trichlorofluoromethane	**1.4**	**1.4**	**1.4**	**1.4**	**1.4**	---	---	---	

Legend:

50	Decision Matrices recommend a specific action based on parameter concentrations
25	Parameter was detected at concentrations exceeding the NYSDOH Immediate Action Levels
5.0	Parameter was detected at concentrations exceeding the NYSDOH Air Guidance Values
1.0	Parameter was detected at concentrations exceeding the laboratory reporting limit
< 1.0	Parameter was not detected at concentrations exceeding the laboratory reporting limit

Notes:
All concentrations in micrograms per cubic meter (µg/m³)
Recommendations based on May 2017 NYSDOH Soil Vapor/Indoor Air Matrices (Decision Matrices)
E = Reported result is estimated; value reported over verified calibration range
J = Detected but below the Reporting Limit; therefore, result is an estimated concentration
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Table 2
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

Property 30								
Date Collected:	**2/13-2/14/2023**	**2/13-2/14/2023**	**2/13-2/14/2023**	**2/13-2/14/2023**	**NYSDOH Air Guidance Values**	**NYSDOH Immediate Action Levels**	**NYSDOH May 2017 / February 2024 Matrix Recommendations**	**Final Action Recommended**
Sample Locations:	**Sub-Slab Soil Vapor Concentrations**	**Basement Indoor Air Concentrationss**	**First Floor Indoor Air Concentrationss**	**Outdoor Air Concentrationss**				
Volatile Organic Compounds (µg/m³)								
1,1,1-Trichloroethane	**0.36**	< 0.27	< 0.27	< 0.27	---	---	No Further Action	**No Further Action**
1,1,2-Trichlorotrifluoroethane (Freon 113)	**0.55 J**	**0.58 J**	**0.54 J**	**0.52 J**	---	---	---	
1,2,4-Trimethylbenzene	**0.58**	**0.24 J**	**0.30**	**0.18 J**	---	---	No Further Action	
1,3,5-Trimethylbenzene	**0.17**	< 0.25	< 0.25	< 0.25	---	---	No Further Action	
1-Ethyl-4-methyl-benzene	**0.12 J**	< 0.25	< 0.25	< 0.25	---	---	---	
2-Butanone (MEK)	**3.7**	< 5.9	< 5.9	< 5.9	---	---	---	
2-Hexanone (Methyl butyl ketone/MBK)	**0.65**	< 0.20	< 0.20	< 0.20	---	---	---	
Acetone	**26**	**14**	**26**	**8.2**	---	---	---	
Acrolein	**0.81 J**	**1.1 J**	**1.2 J**	< 2.3	---	---	---	
Benzene	**1.1**	**0.93**	**1.1**	**0.88**	---	---	No Further Action	
Bromoform	< 0.31	< 0.52	< 0.52	**0.38 J**	---	---	---	
Carbon disulfide	**1.3**	< 1.6	< 1.6	< 1.6	---	---	---	
Carbon tetrachloride	**0.31**	**0.6**	**0.45**	**0.47**	---	---	No Further Action	
Chloroethane	**0.17**	< 0.13	< 0.13	< 0.13	---	---	---	
Chloroform	**4.9**	< 0.24	< 0.24	< 0.24	---	---	---	
Chloromethane	**0.47**	**1.4**	**1.4**	**1.3**	---	---	---	
Cyclohexane	**0.36**	**0.19**	**0.32**	**0.14 J**	---	---	No Further Action	
Dichlorodifluoromethane	**2.9**	**2.7**	**2.7**	**2.8**	---	---	---	
Ethanol	**48**	**21**	**41**	**33**	---	---	---	
Ethyl Acetate	< 1.1	< 1.8	**1.9**	< 1.8	---	---	---	
Ethylbenzene	**0.37**	**0.31**	**0.36**	**0.18 J**	---	---	No Further Action	
Heptane	**0.56**	**0.42**	**0.71**	**0.35**	---	---	No Further Action	
Isopropyl Alcohol	**230**	**38**	**140**	**110**	---	---	---	
m,p-Xylene	**0.91**	**0.81**	**1.0**	**0.45**	---	---	No Further Action	
Methyl isobutyl ketone (MIBK)	< 0.12	< 0.20	**0.14 J**	< 0.20	---	---	---	
Methylene chloride	< 1.0	< 1.7	**1.1 J**	< 1.7	60	---	No Further Action	
Naphthalene	**0.23**	< 0.26	< 0.26	< 0.26	---	---	No Further Action	
o-Xylene	**0.42**	**0.27**	**0.39**	**0.16 J**	---	---	No Further Action	
Propene	**2.5**	< 3.4	< 3.4	< 3.4	---	---	---	
Styrene	**0.79**	< 0.21	< 0.21	< 0.21	---	---	---	
Tetrachloroethene	**11**	**0.36**	**0.36**	**0.30 J**	30	300	No Further Action	
Tetrahydrofuran	**1.5**	< 1.5	< 1.5	< 1.5	---	---	---	
Toluene	**1.8**	**0.89**	**1.2**	**0.90**	---	---	No Further Action	
Trichloroethene	**0.70**	< 0.27	< 0.27	< 0.27	2	20	No Further Action	
Trichlorofluoromethane	**1.5**	**1.4**	**1.4**	**1.3**	---	---	---	

Legend:

50	Decision Matrices recommend a specific action based on parameter concentrations
25	Parameter was detected at concentrations exceeding the NYSDOH Immediate Action Levels
5.0	Parameter was detected at concentrations exceeding the NYSDOH Air Guidance Values
1.0	Parameter was detected at concentrations exceeding the laboratory reporting limit
< 1.0	Parameter was not detected at concentrations exceeding the laboratory reporting limit

Notes:
All concentrations in micrograms per cubic meter (µg/m³)
Recommendations based on May 2017 NYSDOH Soil Vapor/Indoor Air Matrices (Decision Matrices)
E = Reported result is estimated; value reported over verified calibration range
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