ATHENICA ENVIRONMENTAL SERVICES, INC.
Environmental Engineering Consultants

A NYC WBE COMPANY

October 30, 2018

Steve Matri
Renatus Group
271 Madison Avenue, 18th Floor
New York, New York 10016

RE: **Soil Vapor Intrusion Study**
141-143 Irving Avenue, 38 Broad Street, and 40 Broad Street
Port Chester, New York 10573
Tax IDs: 142.22-2-71, 142.22-2-74, 142.22-2-75
Athenica Project No. 18-132-1020

Dear Mr. Matri:

Athenica Environmental Services, Inc. (Athenica) has prepared this letter report summarizing the results of the Soil Vapor Intrusion (SVI) study conducted at the above-referenced properties in Port Chester, New York (Site). The SVI study was conducted in general accordance with Athenica's proposal dated October 17, 2018 and the New York State Department of Health (NYSDOH) *Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, dated October 2006 and updated May 2017 (NYSDOH Guidance Document).

Background

The Site consists of three individual tax lots, each of which is developed with one or two (adjoined) 2-story buildings with basements. The buildings at 38 and 40 Broad Street each have commercial use on the ground floor with residential use above, and the building at 141-143 Irving Avenue is a 2-story residential structure. The Site boundaries and use of adjoining properties is shown on Figure 1.

A Phase I Environmental Site Assessment (ESA) was conducted at the Site and two other surrounding properties, by Athenica October 2018. The Phase I ESA identified the following Recognized Environmental Condition(s) (RECs) associated with the Site, which warrant further investigation:

- The potential for vapor intrusion from off-Site historic auto service stations, gasoline filling stations, and dry cleaning facilities is a potential vapor encroachment condition (PVEC), which is considered to be a REC.
- The historic presence of several gasoline stations and automotive service/repair facilities in the area upgradient of the Site, combination with gasoline-related compounds detected in groundwater samples collected at a nearby property in 2013, is considered to be a REC.

Based upon the aforementioned findings, a SVI study was recommended at the Site to determine if the operations at the historic facilities have negatively impacted soil vapor and indoor air quality at the Site.

Objective/Scope of Work

The overall objective of this project was to evaluate the risk of vapor intrusion, in general accordance with the NYSDOH Guidance Document.

To accomplish the overall project objective, the investigation included the installation of two (2) soil vapor probes, and the collection of soil vapor, indoor air, and ambient outdoor air samples at the Site. The soil vapor probes were designated as SV-1 and SV-2 and were located in the cellar of 141-143 Irving Avenue (SV-1), and in the cellar of 40 Broad Street (SV-2). Two (2) indoor air samples, designated IA-1 and IA-2, were collected within the basements of each building collocated with each sub-slab sample. One (1) ambient outdoor air sample, designated OA-1, was collected in the rear yard of 141-143 Irving Avenue. The Site building at 38 Broad Street was inaccessible at the time of sampling, and no air samples were collected from that location. The locations of the soil vapor, indoor air, and ambient outdoor air samples are shown on Figure 2. The investigation methodologies are further described in the following subsection.

Methodology

On October 22, 2018, Athenica conducted soil vapor, indoor air, and ambient outdoor air sampling at the Site. As prescribed in the NYSDOH Guidance Document, Athenica performed building inspections prior to sample collection at the Site. The pre-sampling inspections included evaluation of the Site buildings, floor layout, air flows, storage or use of volatile organic compounds (VOCs), and physical conditions within the building. A photoionization detector (PID) was utilized to identify potential sources of VOCs in the building. PID readings in indoor air within the Site buildings were not elevated in comparison to ambient exterior concentrations. The highest measured indoor air PID reading was 0.1 part per million (ppm). Please note that other factors such as humidity can affect PID readings. A pre-sampling inspection was not conducted at 38 Broad Street due to its inaccessibility. The results of the pre-sampling inspections are documented on the indoor air quality questionnaire and building inventory forms in Appendix A of this report.

Subsequent to completion of the pre-sampling building inspection, Athenica installed the two vapor probes. For each probe, a portable hammer drill was utilized to core a ⅝" diameter hole through the concrete slab to install the temporary soil vapor implants. The temporary soil vapor probes, comprised of a VAPOR PIN® brass fitting, connected to ¼-inch diameter inert polyethylene tubing, were installed immediately below the foundation slab, in general conformance to the design provided in the NYSDOH Guidance Document.

Prior to sampling, each soil vapor probe was leak-checked using helium gas, in accordance with NYSDOH protocols to verify the integrity of the soil vapor probe seals. A shroud served to keep the helium in contact with the probes during testing. A portable helium detector was used to analyze samples of soil vapor from each shallow soil vapor sample probe for the helium prior to any sampling. The sampling points were both confirmed to be adequately sealed prior to sampling.

After purging approximately three volumes of air from the temporary soil vapor probes at a flow rate less than 0.2 liters per minute, two soil vapor samples, as well as two indoor air and one ambient outdoor air samples, were collected for laboratory analysis into laboratory provided pre-cleaned 6-liter SUMMA canisters. The samples were submitted to York Analytical Laboratories, Inc. (York) of Stratford, Connecticut, for analysis for VOCs utilizing United States Environmental Protection Agency (USEPA) Method TO-15. The soil vapor, indoor air, and ambient outdoor air samples were collected simultaneously at a flow rate of less than 0.2 liters per minute.

A soil vapor sampling log is provided in Appendix B. Photographs taken during the SVI sampling are provided in Appendix C.

Results/Findings

VOCs detected in the soil vapor, indoor air, and ambient outdoor air samples are summarized in Table 1. The analytical laboratory report for the collected samples is provided in Appendix D.

An assessment of the sample results for the VOCs included in the NYSDOH Decision Matrices is provided in Table 2. Risk of soil vapor intrusion was evaluated by comparison to the NYSDOH Guidance Document Decision Matrices (updated May 2017) for trichloroethene (TCE), 1,1-dichloroethene, cis-1,2-dichloroethene, and carbon tetrachloride ("Matrix A Compounds"); tetrachloroethene (PCE), methylene chloride, and 1,1,1-trichloroethane ("Matrix B Compounds"); and vinyl chloride ("Matrix C Compounds"). In this approach, the risk associated with soil vapor intrusion for these VOCs is evaluated by comparison of their concentrations in indoor air and soil vapor, to provide a decision for warranted actions in accordance with the matrices in the NYSDOH Guidance Document. Concentrations of other (non-matrix) VOCs detected in the samples were evaluated by comparison to the 90th percentile values of VOCs found in indoor air of commercial buildings according to the USEPA 2001 study: Building Assessment and Survey Evaluation (BASE) data (NYSDOH Guidance Document, Table C2).

Findings of the SVI study indicate that the Matrix A compound carbon tetrachloride was detected in both indoor air samples. However, these concentrations were similar to that detected in the outdoor ambient air sample, and carbon tetrachloride was not detected in any of the soil vapor samples. The Matrix A compound TCE was detected in soil vapor sample SV-1, but not in SV-2, either of the indoor air samples, or the outdoor air sample. The Matrix B compound PCE was detected in both soil vapor samples; PCE was detected in one of the two indoor air samples at a significantly lower concentration than in the soil vapor samples. Additionally, the Matrix B compound methylene chloride was detected in both indoor ambient air samples but was not detected in any of the soil vapor samples. Several of the non-matrix VOCs were detected in indoor air sample IA-2 at a concentration exceeding their 90th percentile value, including

ethyl benzene, o-xylene, and p-&m-xylenes. According to the NYSDOH Guidance Document decision matrices, a decision of "No Further Action" is applicable to all of the detected VOCs.

Conclusions/Recommendations

Based on the results of the SVI Study, indoor air quality at the Site is currently not affected by soil vapor intrusion. As a result, no further action is recommended regarding potential vapor intrusion at the Site buildings at 141-143 Irving Avenue and 40 Broad Street. Athenica cannot guarantee that vapor intrusion is not present at 38 Broad Street, but based on its interstitial location, and the results from the other Site buildings, no further action is recommended at this time.

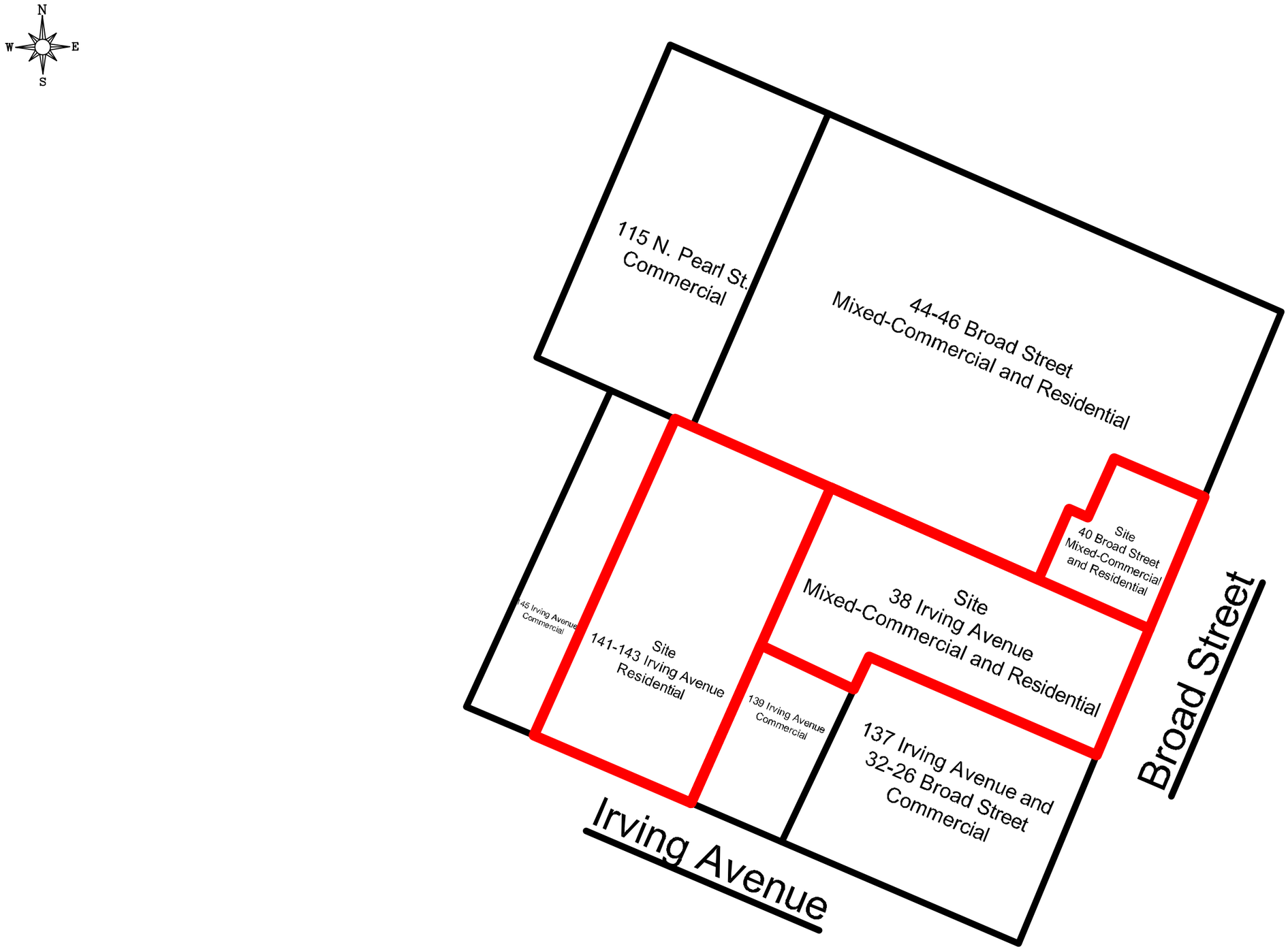
Please contact us if you have any questions or require additional information.

Sincerely,
ATHENICA ENVIRONMENTAL SERVICES, INC.

Evan Greenberg EIT
Junior Engineer

Kenneth P. Wenz, Jr., PG, LEP
Senior Project Manager

FIGURES



LEGEND:

Site Boundary

ATHENICA ENVIRONMENTAL SERVICES, INC.
Environmental Engineering Consultants
45-09 GREENPOINT AVENUE
LONG ISLAND CITY, NY 11104
TEL: (718) 784 - 7490
FAX: (718) 784 - 4085

Date: October 29, 2018
Drawn by: Evan Greenberg
Checked by: Ken Wenz
Drawing Scale: NOT TO SCALE
Project No.: 18-132-1020

Site: 141-143 Irving Avenue and 40 Broad Street, Port Chester, New York 10573

Figure: 1
Title: Site Boundary Map

LEGEND:

- SV-X Soil Vapor Sample
- IA-X Indoor Ambient Air Sample
- OA-X Outdoor Ambient Air Sample

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Figure: 2

Title: Sample Location Map

TABLES

Table 1
Soil Vapor Intrusion Analytical Summary Table for Volatile Organic Compounds
141-143 Irving Avenue and 40 Broad Street
Port Chester, New York

	141-143 Irving Avenue				40 Broad Street							
Sample Name	**SV-1**		**IA-1**		**SV-2**		**IA-2**		**OA-1**		**USEPA 2001 BASE 90th percentile (Indoor Air)**	**NYSDOH Vapor Intrusion Decision Matrices - Updated May 2017 (Soil Vapor)**
Laboratory Name	**18J1090-01**		**18J1090-03**		**18J1090-02**		**18J1090-04**		**18J1090-05**			
Sampling Date	**10/22/2018**		**10/22/2018**		**10/22/2018**		**10/22/2018**		**10/22/2018**			
Matrix	**Soil Vapor**		**Indoor Air**		**Soil Vapor**		**Indoor Air**		**Outdoor Air**			
Units	**ug/m^3**		**ug/m^3**		**ug/m^3**		**ug/m^3**		**ug/m^3**			
	Results	**Q**	**Results**	**Q**	**Results**	**Q**	**Results**	**Q**	**Results**	**Q**	**ug/m^3**	**ug/m^3**
1,1,1,2-Tetrachloroethane	<1	U	<0.61	U	<0.96	U	<0.52	U	<0.58	U	~	NC
1,1,1-Trichloroethane	<0.83	U	<0.48	U	<0.76	U	<0.41	U	<0.46	U	**20.6**	**100^B**
1,1,2,2-Tetrachloroethane	<1	U	<0.61	U	<0.96	U	<0.52	U	<0.58	U	~	NC
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	<1.2	U	<0.68	U	<1.1	U	<0.58	U	<0.64	U	**3.5**	NC
1,1,2-Trichloroethane	<0.83	U	<0.48	U	<0.76	U	<0.41	U	<0.46	U	**1.5**	NC
1,1-Dichloroethane	<0.62	U	<0.36	U	<0.57	U	<0.31	U	<0.34	U	**0.7**	NC
1,1-Dichloroethylene	<0.15	U	<0.088	U	<0.14	U	<0.075	U	<0.083	U	**1.4**	**6^A**
1,2,4-Trichlorobenzene	<1.1	U	<0.66	U	<1	U	<0.56	U	<0.62	U	**6.8**	NC
1,2,4-Trimethylbenzene	**8.5**		**0.52**		**0.96**		**2.1**		<0.41	U	**9.5**	NC
1,2-Dibromoethane	<1.2	U	<0.68	U	<1.1	U	<0.58	U	<0.65	U	**1.5**	NC
1,2-Dichlorobenzene	<0.92	U	<0.53	U	<0.84	U	<0.45	U	<0.51	U	**1.2**	NC
1,2-Dichloroethane	<0.62	U	<0.36	U	<0.56	U	<0.31	U	<0.34	U	**0.9**	NC
1,2-Dichloropropane	<0.7	U	<0.41	U	<0.65	U	<0.35	U	<0.39	U	**1.6**	NC
1,2-Dichlorotetrafluoroethane	<1.1	U	<0.62	U	<0.98	U	<0.53	U	<0.59	U	**6.8**	NC
1,3,5-Trimethylbenzene	**4**		<0.44	U	<0.69	U	**0.67**		<0.41	U	**3.7**	NC
1,3-Butadiene	<1	U	<0.59	U	<0.93	U	<0.5	U	<0.56	U	**3**	NC
1,3-Dichlorobenzene	<0.92	U	<0.53	U	<0.84	U	<0.45	U	<0.51	U	**2.4**	NC
1,3-Dichloropropane	<0.7	U	<0.41	U	<0.65	U	<0.35	U	<0.39	U	~	NC
1,4-Dichlorobenzene	**6**		<0.53	U	**14**		<0.45	U	<0.51	U	**5.5**	NC
1,4-Dioxane	<1.1	U	<0.64	U	<1	U	<0.54	U	<0.61	U	~	NC
2-Butanone	**13**		**0.76**		**12**		**0.96**		**0.52**		**12**	NC
2-Hexanone	<1.2	U	<0.73	U	<1.1	U	<0.62	U	<0.69	U	~	NC
3-Chloropropene	<2.4	U	<1.4	U	<2.2	U	<1.2	U	<1.3	U	~	NC
4-Methyl-2-pentanone	**1.8**		<0.36	U	**1**		<0.31	U	<0.34	U	**6**	NC
Acetone	**54**		**7.3**		**58**		**25**		**4.2**		**98.9**	NC
Acrylonitrile	<0.33	U	<0.19	U	<0.3	U	<0.16	U	<0.18	U	~	NC
Benzene	**0.63**		**0.96**		**1.2**		**2.7**		**0.59**		**9.4**	NC
Benzyl chloride	<0.79	U	<0.46	U	<0.72	U	<0.39	U	<0.44	U	**6.8**	NC
Bromodichloromethane	<1	U	<0.59	U	<0.94	U	<0.51	U	<0.56	U	~	NC
Bromoform	<1.6	U	<0.92	U	<1.4	U	<0.78	U	<0.87	U	~	NC
Bromomethane	<0.59	U	<0.34	U	<0.54	U	<0.29	U	<0.33	U	**1.7**	NC
Carbon disulfide	**1.7**		<0.28	U	**2**		<0.24	U	<0.26	U	**4.2**	NC
Carbon tetrachloride	<0.24	U	**0.5**		<0.22	U	**0.47**		**0.42**		**1.3**	**6^A**
Chlorobenzene	<0.7	U	<0.41	U	<0.64	U	<0.35	U	<0.39	U	**0.9**	NC
Chloroethane	<0.4	U	<0.23	U	<0.37	U	<0.2	U	<0.22	U	**1.1**	NC
Chloroform	**5.3**		<0.43	U	<0.68	U	<0.37	U	<0.41	U	**1.1**	NC
Chloromethane	<0.31	U	<0.18	U	<0.29	U	**0.97**		<0.17	U	**3.7**	NC
cis-1,2-Dichloroethylene	<0.15	U	<0.088	U	<0.14	U	<0.075	U	<0.083	U	**1.9**	**6^A**
cis-1,3-Dichloropropylene	<0.69	U	<0.4	U	<0.63	U	<0.34	U	<0.38	U	**2.3**	NC
Cyclohexane	<0.52	U	<0.3	U	<0.48	U	**0.39**		<0.29	U	~	NC
Dibromochloromethane	<1.3	U	<0.75	U	<1.2	U	<0.64	U	<0.72	U	~	NC
Dichlorodifluoromethane	**1.9**		**1.6**		**2**		**1.6**		**1.5**		**16.5**	NC
Ethyl acetate	<1.1	U	**1.1**		<1	U	<0.54	U	<0.61	U	**5.4**	NC
Ethyl Benzene	**0.93**		**12**		**0.61**		**2.2**		**0.37**		**5.7**	NC
Hexachlorobutadiene	<1.6	U	<0.94	U	<1.5	U	<0.81	U	<0.9	U	**6.8**	NC
Isopropanol	**7.2**		<0.44	U	**8**		**3.3**		<0.41	U	**250**	NC
Methyl Methacrylate	<0.62	U	<0.36	U	<0.57	U	<0.31	U	<0.34	U	~	NC
Methyl tert-butyl ether (MTBE)	<0.55	U	<0.32	U	<0.5	U	<0.27	U	<0.3	U	**11.5**	NC
Methylene chloride	<1.1	U	**1.1**		<0.97	U	**1.1**		**0.79**		**10**	**100^B**
n-Heptane	<0.62	U	**0.4**		<0.57	U	**1.1**		<0.34	U	~	NC
n-Hexane	<0.54	U	**0.53**		<0.49	U	**1.1**		**0.44**		**10.2**	NC
o-Xylene	**1.7**		**10**		**0.61**		**2.7**		**0.4**		**7.9**	NC
p- & m- Xylenes	**4**		**44**		**1.6**		**7.3**		**1.2**		**22.2**	NC
p-Ethyltoluene	**3.7**		**0.57**		**0.69**		**2.3**		<0.41	U	**3.6**	NC
Propylene	**2.5**		**0.87**		**2.4**		**8.4**		**0.43**		~	NC
Styrene	<0.65	U	**0.45**		**1.2**		**0.71**		<0.36	U	**1.9**	NC
Tetrachloroethylene	**81**		**0.9**		**1.4**		<0.13	U	<0.14	U	**15.9**	**100^B**
Tetrahydrofuran	**6.1**		<0.52	U	**4.7**		<0.45	U	<0.5	U	~	NC
Toluene	**1.7**		**3.1**		**5.9**		**10**		**2**		**43**	NC
trans-1,2-Dichloroethylene	<0.6	U	<0.35	U	<0.55	U	<0.3	U	<0.33	U	~	NC
trans-1,3-Dichloropropylene	<0.69	U	<0.4	U	<0.63	U	<0.34	U	<0.38	U	**1.3**	NC
Trichloroethylene	**6.4**		<0.12	U	<0.19	U	<0.1	U	<0.11	U	**4.2**	**6^A**
Trichlorofluoromethane (Freon 11)	<0.86	U	**1.4**		**1.4**		**1.8**		**1.2**		**18.1**	NC
Vinyl acetate	<0.54	U	<0.31	U	<0.49	U	<0.27	U	<0.3	U	~	NC
Vinyl bromide	<0.67	U	<0.39	U	<0.61	U	<0.33	U	<0.37	U	~	NC
Vinyl Chloride	<0.097	U	<0.057	U	<0.089	U	<0.048	U	<0.054	U	**1.9**	**6^C**

NOTES:

All compounds concentrations are reported in micrograms per cubic meter (ug/m^3)

Q is the Qualifier Column with definitions as follows:

U=analyte not detected at or above the level indicated

Bold values are detected compounds above minimum detectable quantities

Bold and highlighted values are detected above respective comparison standards

Refer to sample matrices when comparing to the applicable regulatory standards as follows:

Indoor air sample(s) are compared to the USEPA Building Assessment and Survey Evaluation (BASE) 90th Percentile values for VOCs in commercial properties (2001)

Soil vapor sample(s) are compared to the NYSDOH Mitigation Value for Decision Matrices Compounds (2017)

USEPA BASE values for indoor air have been amended and denoted with applicable NYSDOH Decision Matrices Compounds (Matrices A, B, and C)

Table 2
NYSDOH Decision Matrices Comparison
141-143 Irving Avenue and 40 Broad Street
Port Chester, New York

	141-143 Irving Avenue			40 Broad Street		
Sample ID	**SV-1**	**IA-1**	**NYSDOH Matrix Decision Outcome (See Note 1)**	**SV-2**	**IA-2**	**NYSDOH Matrix Decision Outcome (See Note 1)**
Lab Sample ID	**L1802465-01**	**L1802465-04**		**L1802465-02**	**L1802465-04**	
Sampling Date	**1/23/2018**	**1/23/2018**		**1/23/2018**	**1/23/2018**	
Sample Matrix	**Soil Vapor**	**Indoor Air**		**Soil Vapor**	**Indoor Air**	
Dilution Factor	**1.523**	**0.886**		**1.396**	**0.755**	
Unit of Measure	**ug/m3**	**ug/m3**		**ug/m3**	**ug/m3**	
MATRIX A COMPOUNDS						
Carbon tetrachloride	<0.24	**0.5**	**No Further Action**	<0.22	**0.47**	**No Further Action**
Trichloroethene	**6.40**	<0.12	**No Further Action**	<0.19	<0.1	**No Further Action**
Cis-1,2-Dichloroethene	<0.15	<0.088	**No Further Action**	<0.14	<0.075	**No Further Action**
1,1-Dichloroethene	<0.15	<0.088	**No Further Action**	<0.14	<0.075	**No Further Action**
MATRIX B COMPOUNDS						
1,1,1-Trichloroethane	<0.83	<0.48	**No Further Action**	<0.76	<0.41	**No Further Action**
Tetrachloroethylene	**81.00**	**0.9**	**No Further Action**	**1.40**	<0.13	**No Further Action**
Methylene Chloride	<1.10	**1.1**	**No Further Action**	<0.97	**1.1**	**No Further Action**
MATRIX C COMPOUNDS						
Vinyl Chloride	<0.097	<0.057	**No Further Action**	<0.089	<0.048	**No Further Action**

NOTES:

1. Decision Evaluation Matrix Outcomes are based on those presented in the NYSDOH Soil Vapor Intrusion Guidance Document (updated May 2017) for the indicated compounds.

No Further Action:

Given that the compound was not detected in the indoor air sample and that the concentration detected in the sub-slab vapor sample is not expected to significantly affect indoor air quality, no additional actions are needed to address human exposures.

MONITOR:

Monitoring of the detected

APPENDIX A
PRE-SAMPLING BUILDING INSPECTION FORM

141-143 Irving Avenue

OSR – 3

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

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

Preparer's Name Evan Greenberg Date/Time Prepared 10/23/18

Preparer's Affiliation Atlantic Environmental Services Phone No. 718-704-7490

Purpose of Investigation SVI Study

1. OCCUPANT:

Interviewed: Y (N)

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

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

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

Interviewed: Y / N

Last Name: Esposito First Name: James

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

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

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

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

If multiple units, how many? 2

If the property is commercial, type?

Business Type(s) _____

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

Other characteristics:

Number of floors 2 Building age 1930s

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

4. AIRFLOW

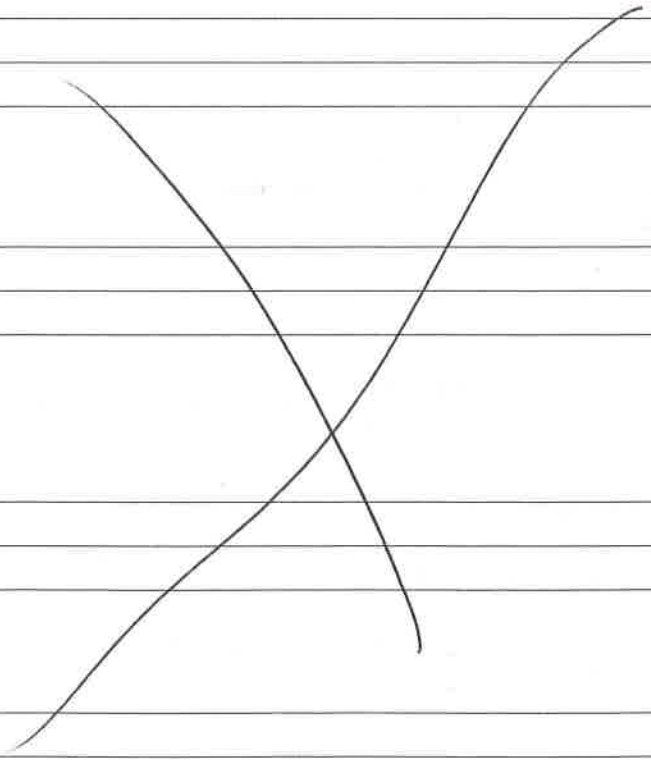
Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

Airflow near source

Outdoor air infiltration

Infiltration into air ducts



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

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

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

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

Cracks in floor. Sump in corner, Cracks in wall

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

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

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

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Nat Gas

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

Are there air distribution ducts present? (Y) N

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

7. OCCUPANCY

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

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

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Are there odors in the building? Y / N
If yes, please describe: Some cans (Sugar/mold)

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

If yes, what types of solvents are used? _____

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

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

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

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

9. WATER AND SEWAGE

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

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

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

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

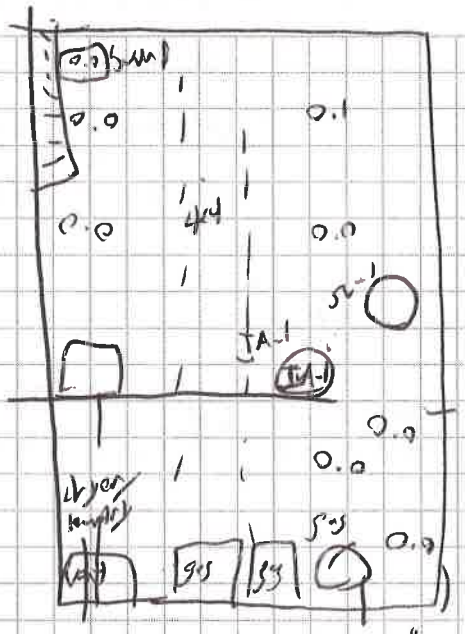
c. Responsibility for costs associated with reimbursement explained? Y / N

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

11. FLOOR PLANS

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

Basement:



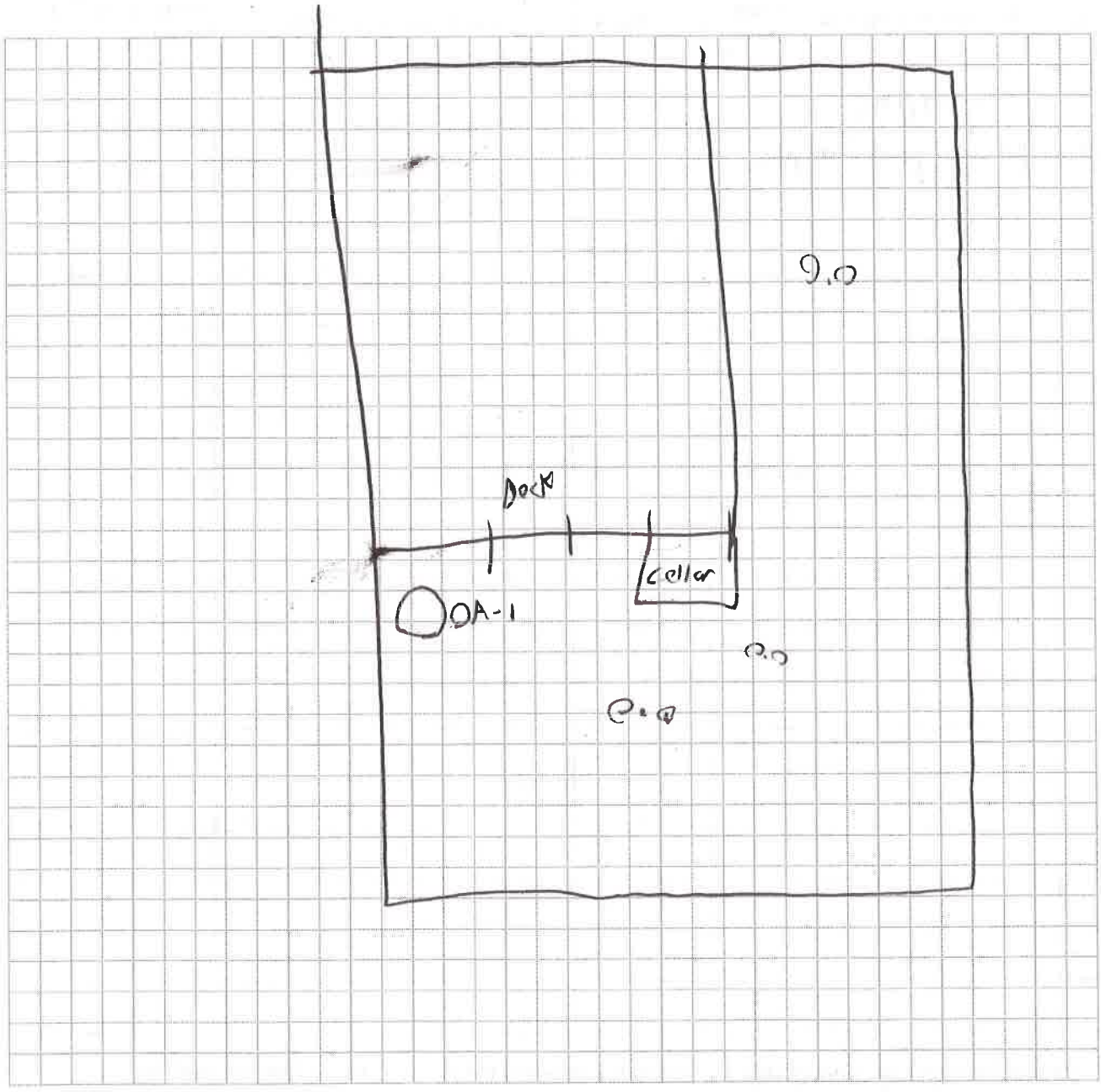
First Floor:

N/A

12. OUTDOOR PLOT

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

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



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: Mini Rae 3000

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

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
All	0.0 ppm					
except	painted pipe 0.1 ppm					

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

40

OSR – 3 ~~30~~ Broad Street

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

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

Preparer's Name Evan Greenberg Date/Time Prepared 10/22/2018

Preparer's Affiliation Athenian Environmental Services Phone No. 718-704-7490

Purpose of Investigation SVI Study

1. OCCUPANT:

Interviewed: Y / (N)

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

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

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

Interviewed: (Y) N

Last Name: Eliopoulos First Name: James

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential School (Commercial/Multi-use) 1st fl Commercial 2nd fl residential
Industrial Church Other: _____

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

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

If multiple units, how many? 3, residential - 2X commercial

If the property is commercial, type?

Business Type(s) salon, tattoo rental offices

Does it include residences (i.e., multi-use)? (Y) / N If yes, how many? 1

Other characteristics:

Number of floors 1/2 Building age 1930s - 1950s

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

4. AIRFLOW

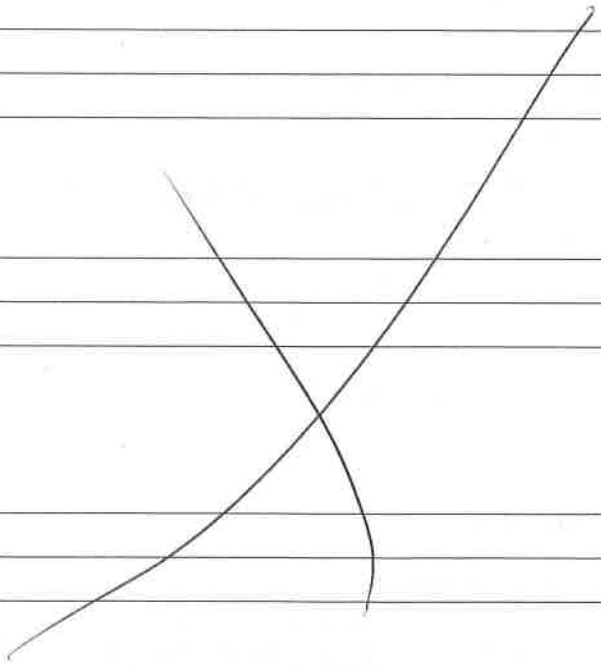
Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

Airflow near source

Outdoor air infiltration

Infiltration into air ducts



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

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

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

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

Cracks. vent along side of wall. water leaking. dry well on floor

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

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

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

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Natural gas

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

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

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

7. OCCUPANCY

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

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	Storage
1st Floor	commercial tedi rental shop / Commercial salon
2nd Floor	residential
3rd Floor	
4th Floor	

8. FACTORS THAT MAY influence INDOOR AIR QUALITY

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

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

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / (N) / NA
Please specify 3 gas cans

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

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

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

g. Is there smoking in the building? (Y) N How frequently? often, cigar smell

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

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

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

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

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

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

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

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

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

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

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

If yes, what types of solvents are used? _____

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

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

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

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

9. WATER AND SEWAGE

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

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

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

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

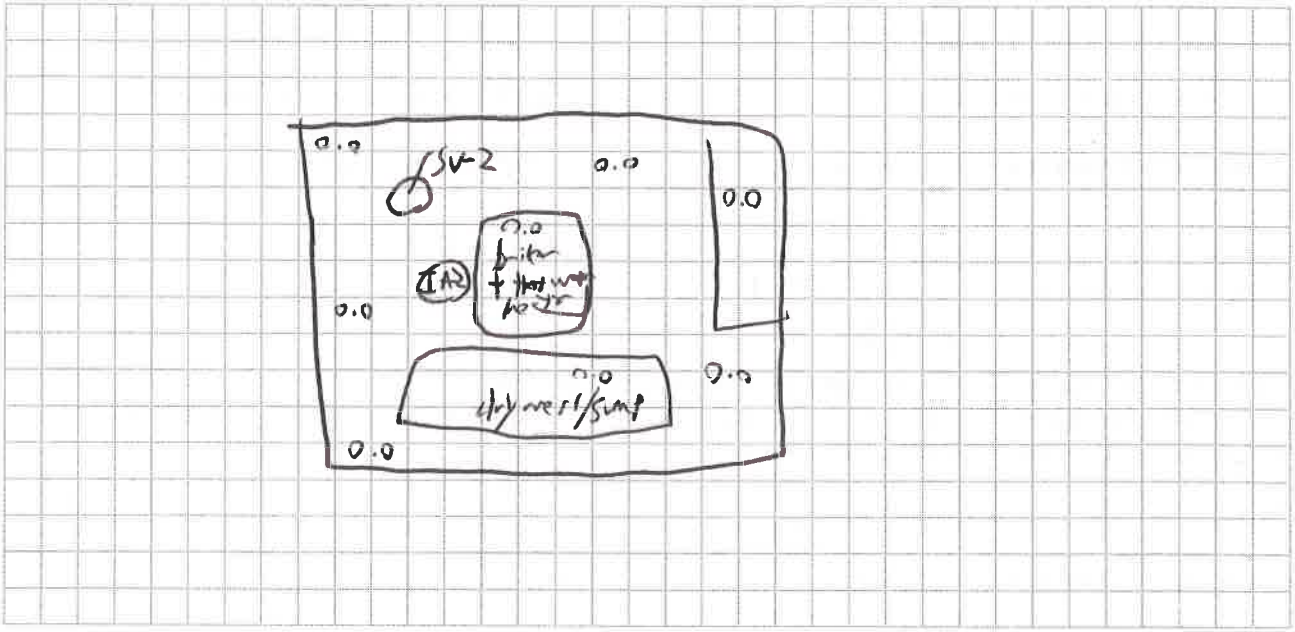
c. Responsibility for costs associated with reimbursement explained? Y / N

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

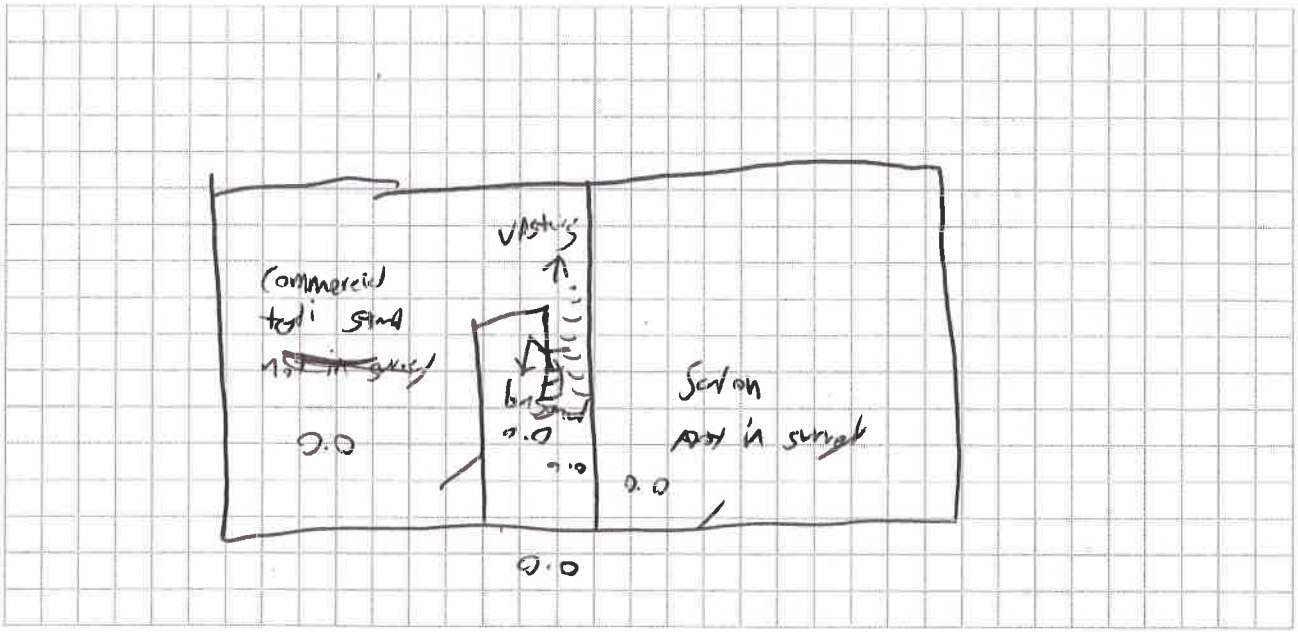
11. FLOOR PLANS

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

Basement:



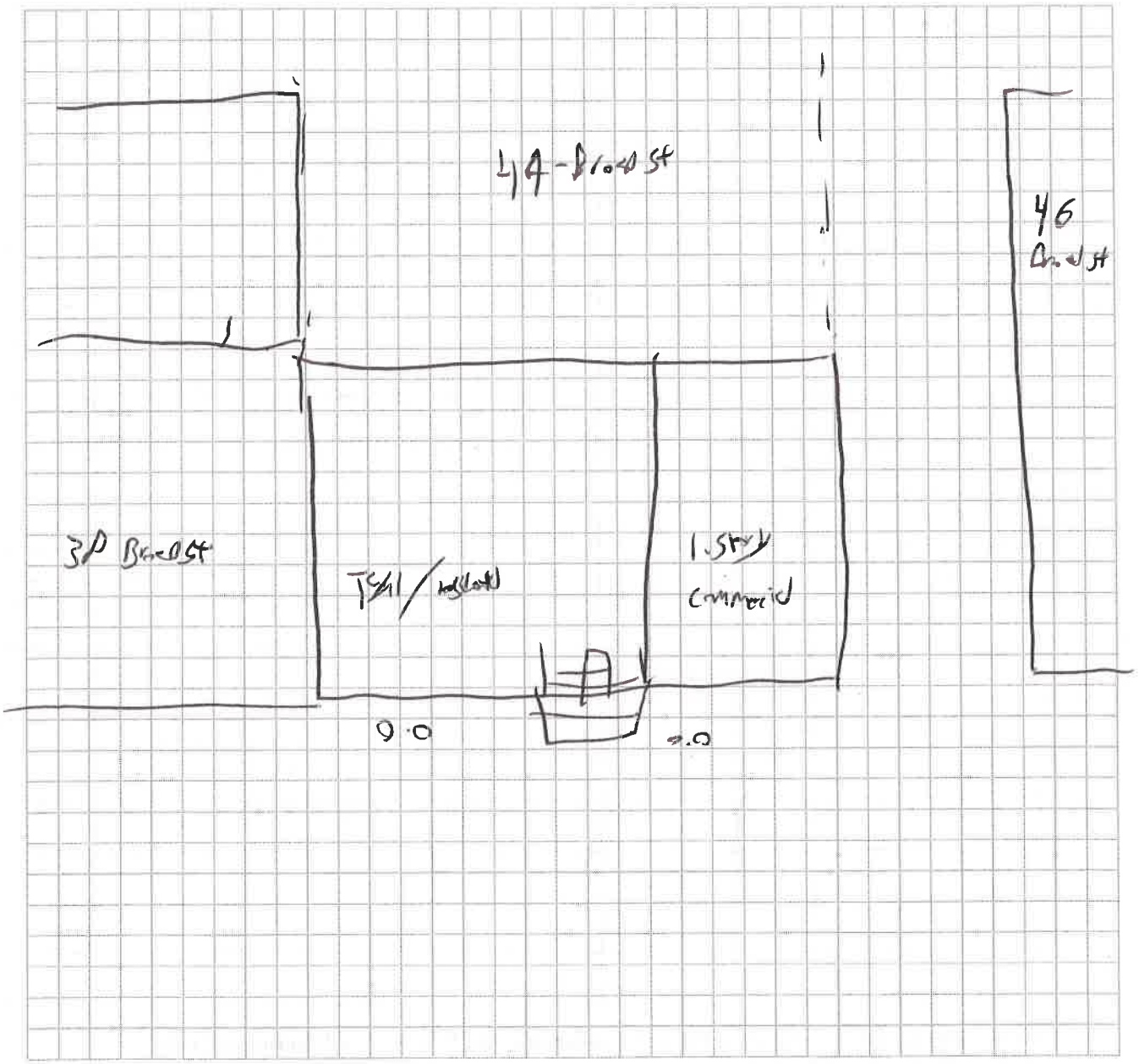
First Floor:



12. OUTDOOR PLOT

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

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



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: _____

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

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
Ayi	O.g					

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

APPENDIX B
SOIL VAPOR SAMPLING LOG

ATHENICA ENVIRONMENTAL SERVICES, INC.
Environmental Engineering Consultants

45-09 Greenpoint Avenue
Long Island City, NY 11104
p: 718-784-7490 f: 718-784-4085
e: info@athenica.com

Site Address: 141-143 Irving Avenue and 40 Broad Street

Job Number: 18-132-1020

Field Representative: Evan Greenberg

Weather: Cloudy, 50°F

Start Date: 10/22/2018 **End Date:** 10/22/2018

Sample Identification			Flow Controller Readout (L/min)	Sampling Time		Cannister Pressure (Hg)	
Athenica	Laboratory						
Sample ID	Cannister #	Controller #		Start	End	Start	End
SV-1	28318	6875	0.2	11:05 AM	1:05 PM	-31	-5
IA-1	22081	7091	0.2	11:05 AM	1:05 PM	-27.5	-6
OA-1	24114	6866	0.2	11:05 AM	1:05 PM	-28.5	-6
SV-2	41127	7417	0.2	11:00 AM	1:10 PM	-28	-2
IA-2	28855	5414	0.2	11:00 AM	1:10 PM	-29	-4

APPENDIX C
PHOTOGRAPHS

View of the Site building at 141-143 Irving Avenue.

View of a handheld PID with 0.0ppm reading for volatile organic compounds in the air.

View of a vapor probe installed in the cellar slab.

View of a helium leak check being performed at the location of SV-1.

View of sample SV-1.

View of indoor air sample IA-1.

View of ambient outdoor sample OA-1.

View of the cellar of 40 Broad Street, the location of SV-2 and IA-2.

View of a helium leak check being performed at the location of SV-2.

View of the repaired concrete slab in 141-143 Irving Avenue.

APPENDIX D
LABORATORY ANALYTICAL REPORT

Technical Report

prepared for:

Athenica Environmental Services, Inc.
45-09 Greenpoint Avenue
Long Island City NY, 11104
Attention: Evan Greenberg

Report Date: 10/26/2018
Client Project ID: 18-133-1020 Port Chester SVI
York Project (SDG) No.: 18J1090

Report Date: 10/26/2018
Client Project ID: 18-133-1020 Port Chester SVI
York Project (SDG) No.: 18J1090

Athenica Environmental Services, Inc.
45-09 Greenpoint Avenue
Long Island City NY, 11104
Attention: Evan Greenberg

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 22, 2018 and listed below. The project was identified as your project: **18-133-1020 Port Chester SVI**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
18J1090-01	SV-1	Soil Vapor	10/22/2018	10/22/2018
18J1090-02	SV-2	Soil Vapor	10/22/2018	10/22/2018
18J1090-03	IA-1	Indoor Ambient Air	10/22/2018	10/22/2018
18J1090-04	IA-2	Indoor Ambient Air	10/22/2018	10/22/2018
18J1090-05	OA-1	Outdoor Ambient Ai	10/22/2018	10/22/2018

General Notes for York Project (SDG) No.: 18J1090

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:

Date: 10/26/2018

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: SV-1 **York Sample ID:** 18J1090-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1090	18-133-1020 Port Chester SVI	Soil Vapor	October 22, 2018 1:05 pm	10/22/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.0	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.83	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.0	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.2	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.83	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.62	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.15	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.1	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	**1,2,4-Trimethylbenzene**	**8.5**		ug/m³	0.75	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.2	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.92	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.62	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.70	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.1	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	**1,3,5-Trimethylbenzene**	**4.0**		ug/m³	0.75	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	1,3-Butadiene	ND		ug/m³	1.0	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.92	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.70	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:			
106-46-7	**1,4-Dichlorobenzene**	**6.0**		ug/m³	0.92	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND		ug/m³	1.1	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**13**		ug/m³	0.45	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: SV-1 **York Sample ID:** 18J1090-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1090	18-133-1020 Port Chester SVI	Soil Vapor	October 22, 2018 1:05 pm	10/22/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ug/m³	1.2	1.523	EPA TO-15 Certifications:	10/23/2018 12:00	10/24/2018 01:51	AS
107-05-1	3-Chloropropene	ND		ug/m³	2.4	1.523	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 01:51	AS
108-10-1	**4-Methyl-2-pentanone**	**1.8**		ug/m³	0.62	1.523	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 01:51	AS
67-64-1	**Acetone**	**54**		ug/m³	0.72	1.523	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 01:51	AS
107-13-1	Acrylonitrile	ND		ug/m³	0.33	1.523	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 01:51	AS
71-43-2	**Benzene**	**0.63**		ug/m³	0.49	1.523	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 01:51	AS
100-44-7	Benzyl chloride	ND		ug/m³	0.79	1.523	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 01:51	AS
75-27-4	Bromodichloromethane	ND		ug/m³	1.0	1.523	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 01:51	AS
75-25-2	Bromoform	ND		ug/m³	1.6	1.523	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 01:51	AS
74-83-9	Bromomethane	ND		ug/m³	0.59	1.523	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 01:51	AS
75-15-0	**Carbon disulfide**	**1.7**		ug/m³	0.47	1.523	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 01:51	AS
56-23-5	Carbon tetrachloride	ND		ug/m³	0.24	1.523	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 01:51	AS
108-90-7	Chlorobenzene	ND		ug/m³	0.70	1.523	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 01:51	AS
75-00-3	Chloroethane	ND		ug/m³	0.40	1.523	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 01:51	AS
67-66-3	**Chloroform**	**5.3**		ug/m³	0.74	1.523	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 01:51	AS
74-87-3	Chloromethane	ND		ug/m³	0.31	1.523	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 01:51	AS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.15	1.523	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 01:51	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.69	1.523	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 01:51	AS
110-82-7	Cyclohexane	ND		ug/m³	0.52	1.523	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 01:51	AS
124-48-1	Dibromochloromethane	ND		ug/m³	1.3	1.523	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 01:51	AS
75-71-8	**Dichlorodifluoromethane**	**1.9**		ug/m³	0.75	1.523	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 01:51	AS
141-78-6	* Ethyl acetate	ND		ug/m³	1.1	1.523	EPA TO-15 Certifications:	10/23/2018 12:00	10/24/2018 01:51	AS

Sample Information

Client Sample ID: SV-1 **York Sample ID:** 18J1090-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1090	18-133-1020 Port Chester SVI	Soil Vapor	October 22, 2018 1:05 pm	10/22/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	**Ethyl Benzene**	**0.93**		ug/m³	0.66	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.6	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-63-0	**Isopropanol**	**7.2**		ug/m³	0.75	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
80-62-6	Methyl Methacrylate	ND		ug/m³	0.62	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.55	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-09-2	Methylene chloride	ND		ug/m³	1.1	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-82-5	n-Heptane	ND		ug/m³	0.62	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-54-3	n-Hexane	ND		ug/m³	0.54	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-47-6	**o-Xylene**	**1.7**		ug/m³	0.66	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
179601-23-1	**p- & m- Xylenes**	**4.0**		ug/m³	1.3	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
622-96-8	*** p-Ethyltoluene**	**3.7**		ug/m³	0.75	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:			
115-07-1	*** Propylene**	**2.5**		ug/m³	0.26	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:			
100-42-5	Styrene	ND		ug/m³	0.65	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
127-18-4	**Tetrachloroethylene**	**81**		ug/m³	0.26	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
109-99-9	*** Tetrahydrofuran**	**6.1**		ug/m³	0.90	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:			
108-88-3	**Toluene**	**1.7**		ug/m³	0.57	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.60	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.69	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	**Trichloroethylene**	**6.4**		ug/m³	0.20	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	0.86	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ug/m³	0.54	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ug/m³	0.67	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: SV-1 **York Sample ID:** 18J1090-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1090	18-133-1020 Port Chester SVI	Soil Vapor	October 22, 2018 1:05 pm	10/22/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m³	0.097	1.523	EPA TO-15	10/23/2018 12:00	10/24/2018 01:51	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*95.1 %*	*70-130*

Sample Information

Client Sample ID: SV-2 **York Sample ID:** 18J1090-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1090	18-133-1020 Port Chester SVI	Soil Vapor	October 22, 2018 1:10 pm	10/22/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.96	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.76	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.96	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.1	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.76	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.57	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.14	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.0	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	**1,2,4-Trimethylbenzene**	**0.96**		ug/m³	0.69	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.1	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.84	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.56	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: SV-2 **York Sample ID:** 18J1090-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1090	18-133-1020 Port Chester SVI	Soil Vapor	October 22, 2018 1:10 pm	10/22/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.65	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.98	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.69	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	1,3-Butadiene	ND		ug/m³	0.93	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.84	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.65	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:			
106-46-7	**1,4-Dichlorobenzene**	**14**		ug/m³	0.84	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND		ug/m³	1.0	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**12**		ug/m³	0.41	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
591-78-6	* 2-Hexanone	ND		ug/m³	1.1	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:			
107-05-1	3-Chloropropene	ND		ug/m³	2.2	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-10-1	**4-Methyl-2-pentanone**	**1.0**		ug/m³	0.57	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-64-1	**Acetone**	**58**		ug/m³	0.66	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-13-1	Acrylonitrile	ND		ug/m³	0.30	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
71-43-2	**Benzene**	**1.2**		ug/m³	0.45	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
100-44-7	Benzyl chloride	ND		ug/m³	0.72	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-27-4	Bromodichloromethane	ND		ug/m³	0.94	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-25-2	Bromoform	ND		ug/m³	1.4	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-83-9	Bromomethane	ND		ug/m³	0.54	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-15-0	**Carbon disulfide**	**2.0**		ug/m³	0.43	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
56-23-5	Carbon tetrachloride	ND		ug/m³	0.22	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-90-7	Chlorobenzene	ND		ug/m³	0.64	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: SV-2 **York Sample ID:** 18J1090-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1090	18-133-1020 Port Chester SVI	Soil Vapor	October 22, 2018 1:10 pm	10/22/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		ug/m³	0.37	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 02:43	AS
67-66-3	Chloroform	ND		ug/m³	0.68	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 02:43	AS
74-87-3	Chloromethane	ND		ug/m³	0.29	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 02:43	AS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.14	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 02:43	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.63	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 02:43	AS
110-82-7	Cyclohexane	ND		ug/m³	0.48	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 02:43	AS
124-48-1	Dibromochloromethane	ND		ug/m³	1.2	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 02:43	AS
75-71-8	**Dichlorodifluoromethane**	**2.0**		ug/m³	0.69	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 02:43	AS
141-78-6	* Ethyl acetate	ND		ug/m³	1.0	1.396	EPA TO-15 Certifications:	10/23/2018 12:00	10/24/2018 02:43	AS
100-41-4	**Ethyl Benzene**	**0.61**		ug/m³	0.61	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 02:43	AS
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.5	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 02:43	AS
67-63-0	**Isopropanol**	**8.0**		ug/m³	0.69	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 02:43	AS
80-62-6	Methyl Methacrylate	ND		ug/m³	0.57	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 02:43	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.50	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 02:43	AS
75-09-2	Methylene chloride	ND		ug/m³	0.97	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 02:43	AS
142-82-5	n-Heptane	ND		ug/m³	0.57	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 02:43	AS
110-54-3	n-Hexane	ND		ug/m³	0.49	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 02:43	AS
95-47-6	**o-Xylene**	**0.61**		ug/m³	0.61	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 02:43	AS
179601-23-1	**p- & m- Xylenes**	**1.6**		ug/m³	1.2	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 02:43	AS
622-96-8	*** p-Ethyltoluene**	**0.69**		ug/m³	0.69	1.396	EPA TO-15 Certifications:	10/23/2018 12:00	10/24/2018 02:43	AS
115-07-1	*** Propylene**	**2.4**		ug/m³	0.24	1.396	EPA TO-15 Certifications:	10/23/2018 12:00	10/24/2018 02:43	AS
100-42-5	**Styrene**	**1.2**		ug/m³	0.59	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 02:43	AS

Sample Information

Client Sample ID: SV-2 **York Sample ID:** 18J1090-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1090	18-133-1020 Port Chester SVI	Soil Vapor	October 22, 2018 1:10 pm	10/22/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	**Tetrachloroethylene**	**1.4**		ug/m³	0.24	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
109-99-9	*** Tetrahydrofuran**	**4.7**		ug/m³	0.82	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:			
108-88-3	**Toluene**	**5.9**		ug/m³	0.53	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.55	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.63	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	Trichloroethylene	ND		ug/m³	0.19	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.4**		ug/m³	0.78	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ug/m³	0.49	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ug/m³	0.61	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-01-4	Vinyl Chloride	ND		ug/m³	0.089	1.396	EPA TO-15	10/23/2018 12:00	10/24/2018 02:43	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*98.6 %*	*70-130*

Sample Information

Client Sample ID: IA-1 **York Sample ID:** 18J1090-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1090	18-133-1020 Port Chester SVI	Indoor Ambient Air	October 22, 2018 1:05 pm	10/22/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.61	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.48	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.61	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.68	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: IA-1 **York Sample ID:** 18J1090-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1090	18-133-1020 Port Chester SVI	Indoor Ambient Air	October 22, 2018 1:05 pm	10/22/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.48	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.36	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.088	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.66	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
95-63-6	**1,2,4-Trimethylbenzene**	**0.52**		ug/m³	0.44	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.68	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.53	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.36	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.41	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.62	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.44	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
106-99-0	1,3-Butadiene	ND		ug/m³	0.59	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.53	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.41	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.53	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
123-91-1	1,4-Dioxane	ND		ug/m³	0.64	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
78-93-3	**2-Butanone**	**0.76**		ug/m³	0.26	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
591-78-6	* 2-Hexanone	ND		ug/m³	0.73	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:			
107-05-1	3-Chloropropene	ND		ug/m³	1.4	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.36	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-64-1	**Acetone**	**7.3**		ug/m³	0.42	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
107-13-1	Acrylonitrile	ND		ug/m³	0.19	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			

Sample Information

Client Sample ID: IA-1 **York Sample ID:** 18J1090-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1090	18-133-1020 Port Chester SVI	Indoor Ambient Air	October 22, 2018 1:05 pm	10/22/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	**Benzene**	**0.96**		ug/m³	0.28	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
100-44-7	Benzyl chloride	ND		ug/m³	0.46	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-27-4	Bromodichloromethane	ND		ug/m³	0.59	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-25-2	Bromoform	ND		ug/m³	0.92	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-83-9	Bromomethane	ND		ug/m³	0.34	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-15-0	Carbon disulfide	ND		ug/m³	0.28	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
56-23-5	**Carbon tetrachloride**	**0.50**		ug/m³	0.14	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-90-7	Chlorobenzene	ND		ug/m³	0.41	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-00-3	Chloroethane	ND		ug/m³	0.23	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-66-3	Chloroform	ND		ug/m³	0.43	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-87-3	Chloromethane	ND		ug/m³	0.18	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.088	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.40	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-82-7	Cyclohexane	ND		ug/m³	0.30	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
124-48-1	Dibromochloromethane	ND		ug/m³	0.75	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-71-8	**Dichlorodifluoromethane**	**1.6**		ug/m³	0.44	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
141-78-6	* **Ethyl acetate**	**1.1**		ug/m³	0.64	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:			
100-41-4	**Ethyl Benzene**	**12**		ug/m³	0.38	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.94	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-63-0	Isopropanol	ND		ug/m³	0.44	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
80-62-6	Methyl Methacrylate	ND		ug/m³	0.36	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.32	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: IA-1 **York Sample ID:** 18J1090-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1090	18-133-1020 Port Chester SVI	Indoor Ambient Air	October 22, 2018 1:05 pm	10/22/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	**Methylene chloride**	**1.1**		ug/m³	0.62	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-82-5	**n-Heptane**	**0.40**		ug/m³	0.36	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-54-3	**n-Hexane**	**0.53**		ug/m³	0.31	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-47-6	**o-Xylene**	**10**		ug/m³	0.38	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
179601-23-1	**p- & m- Xylenes**	**44**		ug/m³	0.77	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
622-96-8	* **p-Ethyltoluene**	**0.57**		ug/m³	0.44	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:			
115-07-1	* **Propylene**	**0.87**		ug/m³	0.15	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:			
100-42-5	**Styrene**	**0.45**		ug/m³	0.38	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
127-18-4	**Tetrachloroethylene**	**0.90**		ug/m³	0.15	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.52	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:			
108-88-3	**Toluene**	**3.1**		ug/m³	0.33	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.35	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.40	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	Trichloroethylene	ND		ug/m³	0.12	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.4**		ug/m³	0.50	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ug/m³	0.31	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ug/m³	0.39	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-01-4	Vinyl Chloride	ND		ug/m³	0.057	0.886	EPA TO-15	10/23/2018 12:00	10/24/2018 03:42	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*98.6 %*	*70-130*

Sample Information

Client Sample ID: IA-2 **York Sample ID:** 18J1090-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1090	18-133-1020 Port Chester SVI	Indoor Ambient Air	October 22, 2018 1:10 pm	10/22/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.52	0.755	EPA TO-15 Certifications:	10/23/2018 12:00	10/24/2018 04:40	AS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.41	0.755	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 04:40	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.52	0.755	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 04:40	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.58	0.755	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 04:40	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.41	0.755	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 04:40	AS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.31	0.755	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 04:40	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.075	0.755	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 04:40	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.56	0.755	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 04:40	AS
95-63-6	**1,2,4-Trimethylbenzene**	**2.1**		ug/m³	0.37	0.755	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 04:40	AS
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.58	0.755	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 04:40	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.45	0.755	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 04:40	AS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.31	0.755	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 04:40	AS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.35	0.755	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 04:40	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.53	0.755	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 04:40	AS
108-67-8	**1,3,5-Trimethylbenzene**	**0.67**		ug/m³	0.37	0.755	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 04:40	AS
106-99-0	1,3-Butadiene	ND		ug/m³	0.50	0.755	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 04:40	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.45	0.755	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 04:40	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.35	0.755	EPA TO-15 Certifications:	10/23/2018 12:00	10/24/2018 04:40	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.45	0.755	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 04:40	AS
123-91-1	1,4-Dioxane	ND		ug/m³	0.54	0.755	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 04:40	AS
78-93-3	**2-Butanone**	**0.96**		ug/m³	0.22	0.755	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 04:40	AS
591-78-6	* 2-Hexanone	ND		ug/m³	0.62	0.755	EPA TO-15 Certifications:	10/23/2018 12:00	10/24/2018 04:40	AS

Sample Information

Client Sample ID: IA-2 **York Sample ID:** 18J1090-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1090	18-133-1020 Port Chester SVI	Indoor Ambient Air	October 22, 2018 1:10 pm	10/22/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	1.2	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.31	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-64-1	**Acetone**	**25**		ug/m³	0.36	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-13-1	Acrylonitrile	ND		ug/m³	0.16	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
71-43-2	**Benzene**	**2.7**		ug/m³	0.24	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
100-44-7	Benzyl chloride	ND		ug/m³	0.39	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-27-4	Bromodichloromethane	ND		ug/m³	0.51	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-25-2	Bromoform	ND		ug/m³	0.78	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-83-9	Bromomethane	ND		ug/m³	0.29	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-15-0	Carbon disulfide	ND		ug/m³	0.24	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
56-23-5	**Carbon tetrachloride**	**0.47**		ug/m³	0.12	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-90-7	Chlorobenzene	ND		ug/m³	0.35	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-00-3	Chloroethane	ND		ug/m³	0.20	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-66-3	Chloroform	ND		ug/m³	0.37	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-87-3	**Chloromethane**	**0.97**		ug/m³	0.16	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.075	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.34	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-82-7	**Cyclohexane**	**0.39**		ug/m³	0.26	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
124-48-1	Dibromochloromethane	ND		ug/m³	0.64	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-71-8	**Dichlorodifluoromethane**	**1.6**		ug/m³	0.37	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
141-78-6	* Ethyl acetate	ND		ug/m³	0.54	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:			
100-41-4	**Ethyl Benzene**	**2.2**		ug/m³	0.33	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: IA-2 **York Sample ID:** 18J1090-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1090	18-133-1020 Port Chester SVI	Indoor Ambient Air	October 22, 2018 1:10 pm	10/22/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.81	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-63-0	**Isopropanol**	**3.3**		ug/m³	0.37	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
80-62-6	Methyl Methacrylate	ND		ug/m³	0.31	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.27	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-09-2	**Methylene chloride**	**1.1**		ug/m³	0.52	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-82-5	**n-Heptane**	**1.1**		ug/m³	0.31	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-54-3	**n-Hexane**	**1.1**		ug/m³	0.27	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-47-6	**o-Xylene**	**2.7**		ug/m³	0.33	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
179601-23-1	**p- & m- Xylenes**	**7.3**		ug/m³	0.66	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
622-96-8	*** p-Ethyltoluene**	**2.3**		ug/m³	0.37	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:			
115-07-1	*** Propylene**	**8.4**		ug/m³	0.13	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:			
100-42-5	**Styrene**	**0.71**		ug/m³	0.32	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
127-18-4	Tetrachloroethylene	ND		ug/m³	0.13	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.45	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:			
108-88-3	**Toluene**	**10**		ug/m³	0.28	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.30	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.34	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	Trichloroethylene	ND		ug/m³	0.10	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.8**		ug/m³	0.42	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ug/m³	0.27	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ug/m³	0.33	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-01-4	Vinyl Chloride	ND		ug/m³	0.048	0.755	EPA TO-15	10/23/2018 12:00	10/24/2018 04:40	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: IA-2 **York Sample ID:** 18J1090-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1090	18-133-1020 Port Chester SVI	Indoor Ambient Air	October 22, 2018 1:10 pm	10/22/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*96.8 %*			*70-130*					

Sample Information

Client Sample ID: OA-1 **York Sample ID:** 18J1090-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1090	18-133-1020 Port Chester SVI	Outdoor Ambient Air	October 22, 2018 1:05 pm	10/22/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.58	0.841	EPA TO-15 Certifications:	10/23/2018 12:00	10/24/2018 05:38	AS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.46	0.841	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 05:38	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.58	0.841	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 05:38	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.64	0.841	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 05:38	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.46	0.841	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 05:38	AS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.34	0.841	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 05:38	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.083	0.841	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 05:38	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.62	0.841	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 05:38	AS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.41	0.841	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 05:38	AS
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.65	0.841	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 05:38	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.51	0.841	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 05:38	AS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.34	0.841	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 05:38	AS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.39	0.841	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 05:38	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.59	0.841	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2018 12:00	10/24/2018 05:38	AS

Sample Information

Client Sample ID: **OA-1** **York Sample ID:** **18J1090-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1090	18-133-1020 Port Chester SVI	Outdoor Ambient Air	October 22, 2018 1:05 pm	10/22/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.41	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	1,3-Butadiene	ND		ug/m³	0.56	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.51	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.39	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.51	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND		ug/m³	0.61	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**0.52**		ug/m³	0.25	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
591-78-6	* 2-Hexanone	ND		ug/m³	0.69	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:			
107-05-1	3-Chloropropene	ND		ug/m³	1.3	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.34	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-64-1	**Acetone**	**4.2**		ug/m³	0.40	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-13-1	Acrylonitrile	ND		ug/m³	0.18	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
71-43-2	**Benzene**	**0.59**		ug/m³	0.27	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
100-44-7	Benzyl chloride	ND		ug/m³	0.44	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-27-4	Bromodichloromethane	ND		ug/m³	0.56	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-25-2	Bromoform	ND		ug/m³	0.87	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-83-9	Bromomethane	ND		ug/m³	0.33	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-15-0	Carbon disulfide	ND		ug/m³	0.26	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
56-23-5	**Carbon tetrachloride**	**0.42**		ug/m³	0.13	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-90-7	Chlorobenzene	ND		ug/m³	0.39	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-00-3	Chloroethane	ND		ug/m³	0.22	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-66-3	Chloroform	ND		ug/m³	0.41	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: OA-1 **York Sample ID:** 18J1090-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1090	18-133-1020 Port Chester SVI	Outdoor Ambient Air	October 22, 2018 1:05 pm	10/22/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	ND		ug/m³	0.17	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.083	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.38	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
110-82-7	Cyclohexane	ND		ug/m³	0.29	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
124-48-1	Dibromochloromethane	ND		ug/m³	0.72	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-71-8	**Dichlorodifluoromethane**	**1.5**		ug/m³	0.42	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
141-78-6	* Ethyl acetate	ND		ug/m³	0.61	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:			
100-41-4	**Ethyl Benzene**	**0.37**		ug/m³	0.37	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.90	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-63-0	Isopropanol	ND		ug/m³	0.41	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
80-62-6	Methyl Methacrylate	ND		ug/m³	0.34	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.30	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-09-2	**Methylene chloride**	**0.79**		ug/m³	0.58	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
142-82-5	n-Heptane	ND		ug/m³	0.34	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
110-54-3	**n-Hexane**	**0.44**		ug/m³	0.30	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
95-47-6	**o-Xylene**	**0.40**		ug/m³	0.37	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
179601-23-1	**p- & m- Xylenes**	**1.2**		ug/m³	0.73	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.41	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:			
115-07-1	*** Propylene**	**0.43**		ug/m³	0.14	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:			
100-42-5	Styrene	ND		ug/m³	0.36	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
127-18-4	Tetrachloroethylene	ND		ug/m³	0.14	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.50	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:			

Sample Information

Client Sample ID: **OA-1** **York Sample ID:** **18J1090-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1090	18-133-1020 Port Chester SVI	Outdoor Ambient Air	October 22, 2018 1:05 pm	10/22/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	**Toluene**	**2.0**		ug/m³	0.32	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.33	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.38	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	Trichloroethylene	ND		ug/m³	0.11	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.2**		ug/m³	0.47	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ug/m³	0.30	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ug/m³	0.37	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-01-4	Vinyl Chloride	ND		ug/m³	0.054	0.841	EPA TO-15	10/23/2018 12:00	10/24/2018 05:38	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*95.6 %*	*70-130*

Sample and Data Qualifiers Relating to This Work Order

QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
CCV-A	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>30% Difference for average Rf). This applies to dectected analytes only.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record - AIR

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 18J1090

Your Page 1 of 1

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: Athenica Environmental Services	Company:	Company:	18-133-1020	RUSH - Next Day
Address: 45-09 Greenpoint Ave Sunnyside, NY 11104	Address: Same	Address: Same	YOUR Project Name: Port Chester SVI	RUSH - Two Day
Phone.: 718-784-7490	Phone.:	Phone.:		RUSH - Three Day
Contact: Evan Greenberg	Contact:	Contact: Josiane Charles		RUSH - Four Day X
E-mail: Labresults@Athenica.com	E-mail:	E-mail: JCharles@Athenica.com	YOUR PO#:	Standard (5-7 Day)

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Evan Greenberg

Samples Collected by: (print your name above and sign below)

~~Evan Greenberg~~ [signature]

Air Matrix Codes	Samples From		Report / EDD Type (circle selections)			YORK Reg. Comp.
AI - Indoor Ambient Air	New York	X	Summary Report	CT RCP	Standard Excel EDD	Compared to the following Regulation(s): (please fill in)
AO - Outdoor Amb. Air	New Jersey		QA Report	CT RCP DQA/DUE	EQuIS (Standard)	
AE - Vapor Extraction Well/ Process Gas/Effluent	Connecticut		NY ASP A Package	NJDEP Reduced Deliv.	NYSDEC EQuIS	
	Pennsylvania		NY ASP B Package	NJDKQP	NJDEP SRP HazSite	
AS - Soil Vapor/Sub-Slab	Other		Other:			

Certified Canisters: Batch X Individual ___

Please enter the following REQUIRED Field Data

Reporting Units: ug/m³ X ppbv ___ ppmv ___

Sample Identification	Date/Time Sampled	Air Matrix	Canister Vacuum Before Sampling (in Hg)	Canister Vacuum After Sampling (in Hg)	Canister ID	Flow Cont. ID	Analysis Requested
SV-1	10/22/18 11:05-13:05	AS	-31	-5	28318	6875	To-15 VOCs
SV-2	10/22/18 11:00-13:10	AS	-28	-2	41127	7417	To-15 VOCs
~~SV-3~~	~~10/22/18~~	~~AS~~					~~To-15 VOCs~~
IA-1	10/22/18 11:05-13:05	AI	-27.5	-6	22081	7091	
IA-2	10/22/18 11:00-13:10	AI	-29	-4	28855	5414	
~~IA-3~~	~~10/22/18~~	~~AI~~					
OA-1	10/22/18 11:05-13:05	AO	-28.5	-6	24114	6866	

Comments: SV-3, IA-3 Not Sampled

Detection Limits Required
≤ 1 ug/m³ ___ NYSDEC V1 Limits ✓
Routine Survey ___ Other ___

Sampling Media
6 Liter Canister X
Tedlar Bag

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
[signature] Athenica Environmental	10/22/18 1445	Peter Schoyle York	10-22-18 1445	[signature] Secure Storage York	10-22-18 1900
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				[signature]	10-22-18 1900