



April 2, 2021

Joseph Jones
Project Manager
Division of Environmental Remediation
Bureau of Technical Support
625 Broadway, 11th Floor
Albany, NY 12233-7020

*Former Atlas Graphics Site
567 Main Street
NYSDEC Site # 130043A
Westbury, New York*

Dear Mr. Jones:

Seacliff Environmental Geology PC (Seacliff) has prepared this report to document the soil vapor and indoor air sampling at the above referenced property in accordance with the December 1, 2020 Work Plan approved by the NYSDEC on February 26, 2021.

Background

H.D.P Printing Corp. is the current owner of the former Atlas Graphics site, located at 567 Main Street, Westbury, New York and identified on the Nassau County Tax Map as: Section 11, Block 164, Lot 78 ("Site"). The Site is listed in the Registry of Inactive Hazardous Waste Disposal Sites in New York State as Site No. 130043A with a classification "2" pursuant to ECL Section 271305. It is the NYSDEC's understanding that H.D.P Printing Corp. is proposing to transfer title and control to the Site.

In 2005, the Site was designated as an SVI Legacy site requiring evaluation of the soil vapor intrusion pathway for the on-Site building. On February 16, 2010, a contractor representing the NYSDEC collected three (3) air samples from beneath, two (2) from within and one (1) outside, the Site building.

The purpose of the sampling was to assess the potential for site-related contamination to enter the building and affect the indoor air quality through soil vapor intrusion. Tetrachloroethene (PCE) and trichloroethene (TCE), each considered site-related contaminants, were detected.

PCE was detected in indoor air within the Site building at concentrations of 27 and 28 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). At the time, these concentrations were below the NYSDOH

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indoor air guideline of 100 ug/m³ but were near the current NYSDOH indoor air guideline of 30 ug/m³.

TCE was detected in the indoor air at concentrations of 1.9 and 1.6 ug/m³. The current NYSDOH indoor air guideline for TCE is 2 ug/m³. In addition, PCE and TCE were detected at (maximum of 4,200 ug/m³ and 31 ,000 ug/m³ respectively) in soil vapor beneath the building.

Methodology

The sampling was conducted on March 11, 2021. Sub-slab vapor samples and co-located indoor air samples were collected at the locations shown on Figure 1. The samples were collected in 6L Summa Canisters over an eight-hour period to simulate the exposure scenario for a workplace with a single shift.

Stainless steel vapor implants were installed below the slab in both sampling locations- the northern and southern portions of the building. There were no PID readings recorded nor was there any odor in the soils removed from below the slab. The points were sealed tightly to prevent indoor air from affecting the implant samples.

Summa canisters were hooked up to the implants and sampling began early the morning of March 11. One indoor air sampling canister was co-located with each sub slab implant. Representative photos are included in Attachment A.

The building was completely vacant. No chemicals were observed even in the bathrooms. The front door was the only entrance accessed. After the canisters were turned on, the front door was briefly opened a total of four times.

The outside (ambient air) canister was set on the east side of the building. No PID readings were recorded but there was a persistent odor of engine exhaust especially in the afternoon hours.

The samples were picked up by lab courier and brought to York Analytical Laboratories, Stratford, CT (NYSDOH ID #10854). EPA Method TO-15 low level sim was used to analyze the air samples.

Results

The results are reported in ug/m³ on Table 1 and the laboratory report is provided as Attachment B.

PCE was detected in indoor air within the building at concentrations of 1.7 and 1.5 ug/m³. These concentrations are below the NYSDOH indoor air guideline of 30 ug/m³.

TCE was detected in the indoor air at concentrations of 2.0 and 1.4 ug/m³. The current NYSDOH indoor air guideline for TCE is 2 ug/m³.

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PCE and TCE were detected at maximum concentrations of 360 ug/m³ and 1800 ug/m³ in soil vapor beneath the building.

TCE was not detected in the outside (ambient) air sample but PCE was detected at 2.7 ug/m³ (higher concentration than the two indoor air samples).

Data validation services for the samples were provided by L.A.B. Validation Corp. of East Northport. The Data Usability Report (DUSR) is included in Attachment C. The laboratory data were deemed acceptable.

Please call or email me if you have any questions.

James M. DeMartinis

James M. DeMartinis PG
Senior Geologist

CC Richard Degenhardt
Ken Robinson Esq.

Figure

Tables



Table 1
 567 Main Street, Westbury, NY
 Soil Vapor and Indoor/Outside Ambient Air
 By EPA Method TO-15

	Location:	VP-1	IA-1	VP-2	IA-2	Outside
	Sampling Date:	3/11/2021	3/11/2021	3/11/2021	3/11/2021	3/11/2021
Analytes	Unit:					
1,1,1,2-Tetrachloroethane	ug/m ³	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/m ³	4.2	ND	19	ND	ND
1,1,2,2-Tetrachloroethane	ug/m ³	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ug/m ³	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ug/m ³	ND	ND	ND	ND	ND
1,1-Dichloroethane	ug/m ³	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ug/m ³	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ug/m ³	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ug/m ³	11	1.7	14	1.9	3.3
1,2-Dibromoethane	ug/m ³	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ug/m ³	ND	ND	ND	ND	ND
1,2-Dichloroethane	ug/m ³	ND	ND	ND	ND	ND
1,2-Dichloropropane	ug/m ³	ND	ND	ND	ND	ND
1,2-Dichlorotetrafluoroethane	ug/m ³	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ug/m ³	3.1	0.52	ND	0.54	0.78
1,3-Butadiene	ug/m ³	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ug/m ³	ND	ND	ND	ND	ND
1,3-Dichloropropane	ug/m ³	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ug/m ³	ND	ND	ND	ND	ND
1,4-Dioxane	ug/m ³	ND	ND	ND	ND	ND
2-Butanone	ug/m ³	7.4	1.4	34	1.2	3.0
2-Hexanone	ug/m ³	ND	ND	ND	ND	ND
3-Chloropropene	ug/m ³	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	ug/m ³	ND	0.86	ND	ND	1.7
Acetone	ug/m ³	54	10	1100	12	18
Acrylonitrile	ug/m ³	ND	ND	ND	ND	ND
Benzene	ug/m ³	4.5	0.98	7.4	1.5	1.0
Benzyl chloride	ug/m ³	ND	ND	ND	ND	ND
Bromodichloromethane	ug/m ³	ND	ND	ND	ND	ND
Bromoform	ug/m ³	ND	ND	ND	ND	ND
Bromomethane	ug/m ³	ND	ND	ND	ND	ND
Carbon disulfide	ug/m ³	ND	ND	ND	ND	ND
Carbon tetrachloride	ug/m ³	ND	0.44	ND	0.40	0.40
Chlorobenzene	ug/m ³	ND	ND	ND	ND	ND
Chloroethane	ug/m ³	ND	ND	ND	ND	ND
Chloroform	ug/m ³	ND	ND	ND	ND	ND
Chloromethane	ug/m ³	ND	1.1	ND	1.2	1.2
cis-1,2-Dichloroethylene	ug/m ³	1.3	ND	2.6	ND	ND
cis-1,3-Dichloropropylene	ug/m ³	ND	ND	ND	ND	ND
Cyclohexane	ug/m ³	2.8	0.70	5.7	1.5	0.69
Dibromochloromethane	ug/m ³	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ug/m ³	2.7	2.2	ND	2.3	2.2
Ethyl acetate	ug/m ³	ND	0.79	ND	ND	1.1
Ethyl Benzene	ug/m ³	29	1.7	12	2.0	1.5
Hexachlorobutadiene	ug/m ³	ND	ND	ND	ND	ND
Isopropanol	ug/m ³	6.3	7.5	14	5.2	36
Methyl Methacrylate	ug/m ³	ND	0.50	7.5	2.0	1.0
Methyl tert-butyl ether (MTBE)	ug/m ³	ND	ND	ND	ND	ND
Methylene chloride	ug/m ³	30	5.1	59	25	3.5
n-Heptane	ug/m ³	8.8	1.0	12	1.9	0.95
n-Hexane	ug/m ³	8.1	1.4	19	3.5	1.4



Table 1
 567 Main Street, Westbury, NY
 Soil Vapor and Indoor/Outside Ambient Air
 By EPA Method TO-15

o-Xylene	ug/m ³	72	2.7	17	3.4	2.4
p- & m- Xylenes	ug/m ³	150	7.2	45	9.0	5.8
p-Ethyltoluene	ug/m ³	13	1.5	15	1.7	2.6
Propylene	ug/m ³	ND	ND	9.4	ND	ND
Styrene	ug/m ³	ND	ND	ND	ND	ND
Tetrachloroethylene	ug/m³	34	1.7	360	1.5	2.7
Tetrahydrofuran	ug/m ³	ND	ND	ND	0.92	0.87
Toluene	ug/m ³	28	6.4	46	5.9	6.3
trans-1,2-Dichloroethylene	ug/m ³	ND	ND	ND	0.55	ND
trans-1,3-Dichloropropylene	ug/m ³	ND	ND	ND	ND	ND
Trichloroethylene	ug/m³	710	2.0	1800	1.4	ND
Trichlorofluoromethane (Freon 11)	ug/m ³	5.9	1.2	10	1.2	1.2
Vinyl acetate	ug/m ³	ND	ND	ND	ND	ND
Vinyl bromide	ug/m ³	ND	ND	ND	ND	ND
Vinyl Chloride	ug/m ³	ND	ND	ND	ND	ND

ND - Not detected. Please refer to the laboratory report in Attachment B.

Attachment A



Photo 1 Interior of building facing north from front entrance.

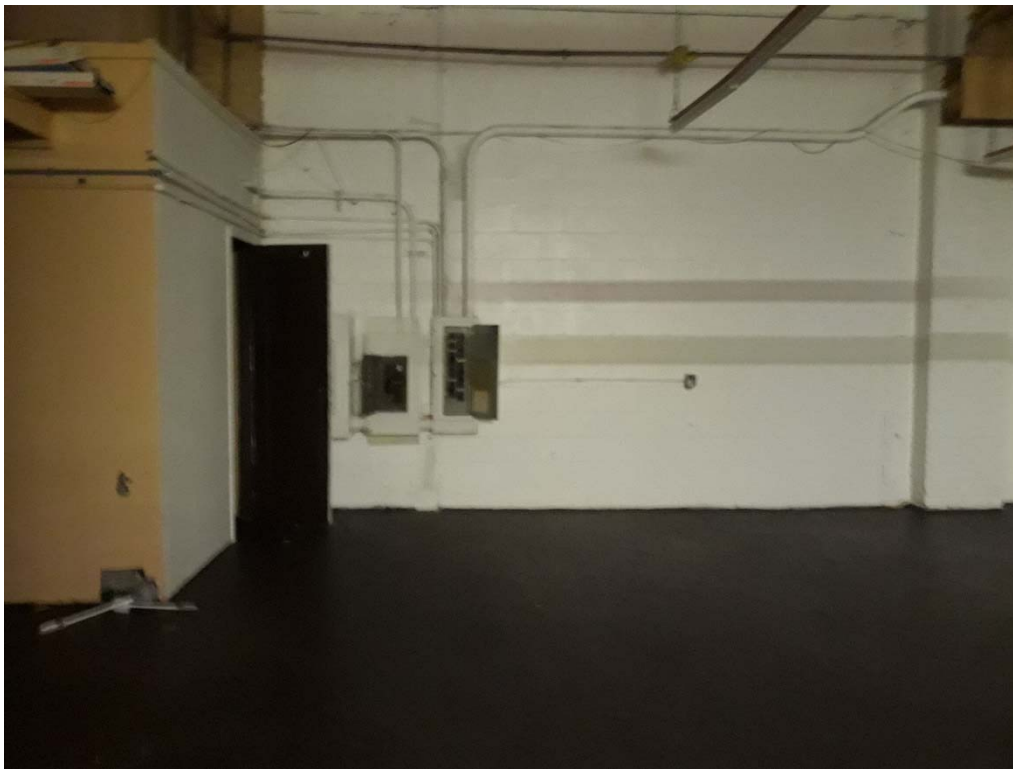


Photo 2 Facing east.



Photo 3- Facing north to south toward front entrance.

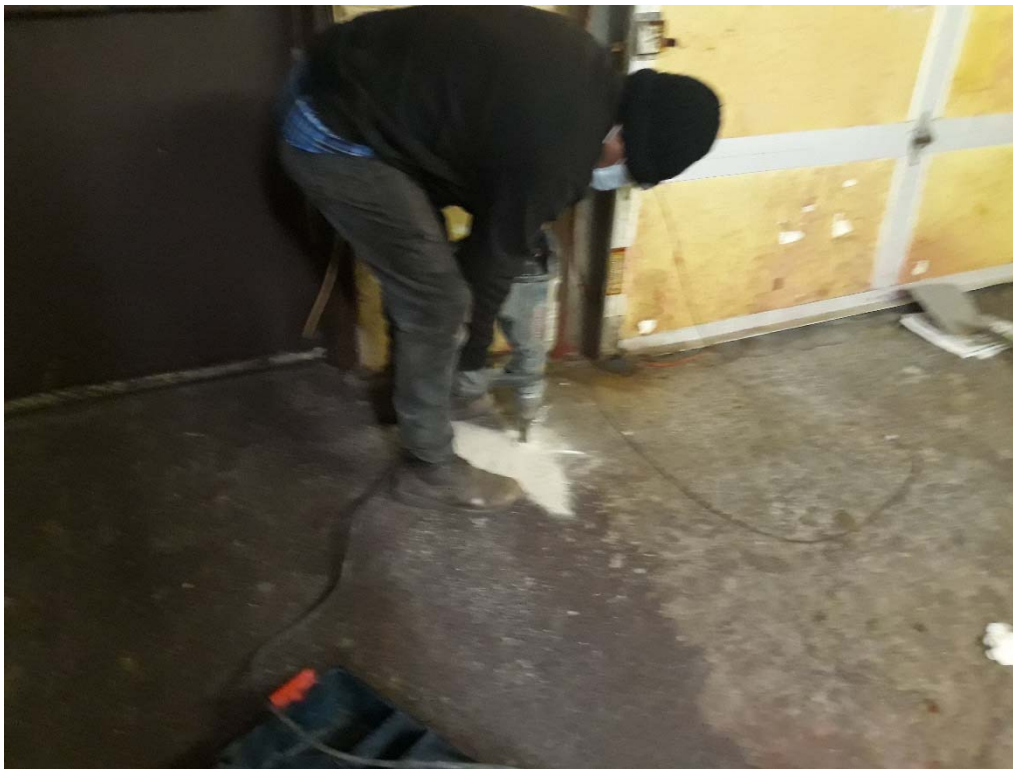


Photo 4- Installing vapor implant at location VP-1.



Photo 5- Stainless steel vapor implant.



Photo 6- Samples VP-1 and IA-2.



Photo 7 -Samples VP-2 and IA-2.

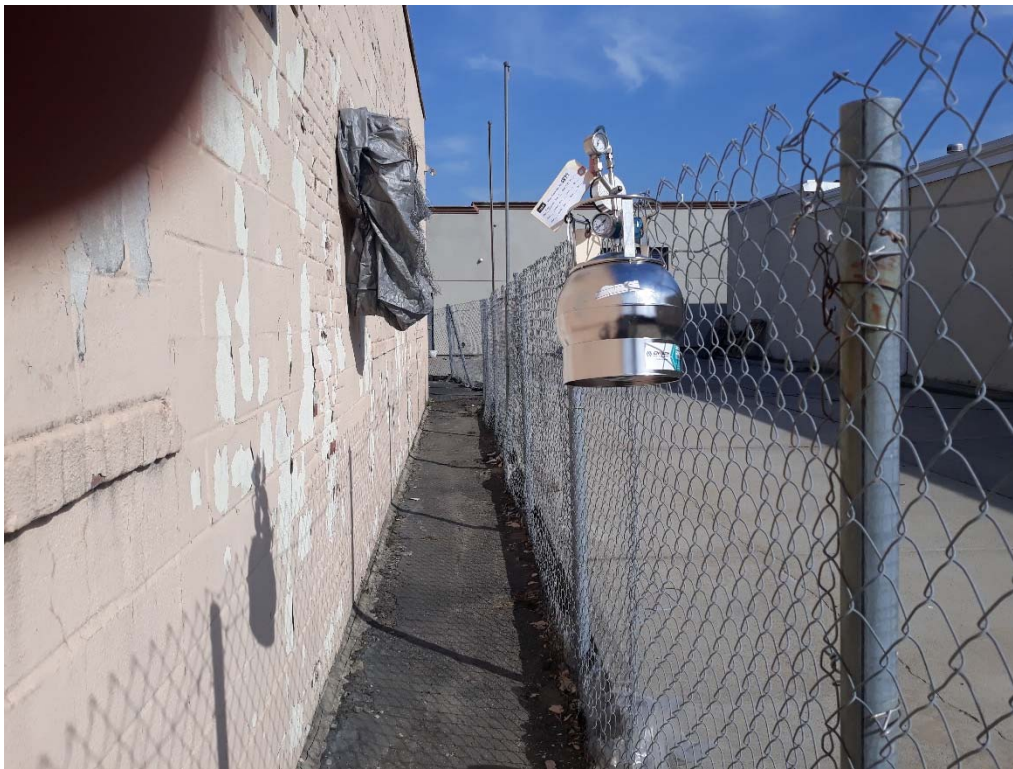
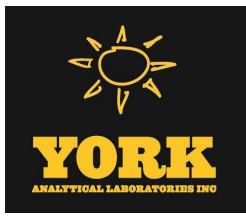


Photo 8- Outside canister.

Attachment B



Technical Report

prepared for:

Seacliff Environmental Geology PC
49 Seacliff Avenue
Miller Place NY, 11764
Attention: Jim DeMartinis

Report Date: 03/19/2021
Client Project ID: 567 Main Street Westbury, NY
York Project (SDG) No.: 21C0634

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 03/19/2021
Client Project ID: 567 Main Street Westbury, NY
York Project (SDG) No.: 21C0634

Seacliff Environmental Geology PC
49 Seacliff Avenue
Miller Place NY, 11764
Attention: Jim DeMartinis

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 March 12, 2021 and listed below. The project was identified as your project: **567 Main Street Westbury, NY**.

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.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
21C0634-01	VP-1	Soil Vapor	03/11/2021	03/12/2021
21C0634-02	IA-1	Indoor Ambient Air	03/11/2021	03/12/2021
21C0634-03	VP-2	Soil Vapor	03/11/2021	03/12/2021
21C0634-04	IA-2	Indoor Ambient Air	03/11/2021	03/12/2021
21C0634-05	Outside	Outdoor Ambient Ai	03/11/2021	03/12/2021

General Notes for York Project (SDG) No.: 21C0634

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:



Benjamin Gulizia
Laboratory Director

Date: 03/19/2021





Sample Information

Client Sample ID: VP-1

York Sample ID: 21C0634-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21C0634

567 Main Street Westbury, NY

Soil Vapor

March 11, 2021 12:00 am

03/12/2021

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/m ³	3.1	4.57	EPA TO-15 Certifications:	03/18/2021 10:00	03/18/2021 18:12	AS
71-55-6	1,1,1-Trichloroethane	4.2		ug/m ³	2.5	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	3.1	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	3.5	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	2.5	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
75-34-3	1,1-Dichloroethane	ND		ug/m ³	1.8	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.45	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	3.4	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
95-63-6	1,2,4-Trimethylbenzene	11		ug/m ³	2.2	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
106-93-4	1,2-Dibromoethane	ND		ug/m ³	3.5	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	2.7	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
107-06-2	1,2-Dichloroethane	ND		ug/m ³	1.8	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
78-87-5	1,2-Dichloropropane	ND		ug/m ³	2.1	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	3.2	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
108-67-8	1,3,5-Trimethylbenzene	3.1		ug/m ³	2.2	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
106-99-0	1,3-Butadiene	ND		ug/m ³	3.0	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	2.7	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	2.1	4.57	EPA TO-15 Certifications:	03/18/2021 10:00	03/18/2021 18:12	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	2.7	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
123-91-1	1,4-Dioxane	ND		ug/m ³	3.3	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
78-93-3	2-Butanone	7.4		ug/m ³	1.3	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
591-78-6	* 2-Hexanone	ND		ug/m ³	3.7	4.57	EPA TO-15 Certifications:	03/18/2021 10:00	03/18/2021 18:12	AS



Sample Information

Client Sample ID: VP-1

York Sample ID: 21C0634-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21C0634

567 Main Street Westbury, NY

Soil Vapor

March 11, 2021 12:00 am

03/12/2021

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/m ³	7.2	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	1.9	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
67-64-1	Acetone	54		ug/m ³	2.2	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
107-13-1	Acrylonitrile	ND		ug/m ³	0.99	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
71-43-2	Benzene	4.5		ug/m ³	1.5	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
100-44-7	Benzyl chloride	ND		ug/m ³	2.4	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
75-27-4	Bromodichloromethane	ND		ug/m ³	3.1	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
75-25-2	Bromoform	ND		ug/m ³	4.7	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
74-83-9	Bromomethane	ND		ug/m ³	1.8	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
75-15-0	Carbon disulfide	ND		ug/m ³	1.4	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
56-23-5	Carbon tetrachloride	ND		ug/m ³	0.72	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
108-90-7	Chlorobenzene	ND		ug/m ³	2.1	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
75-00-3	Chloroethane	ND		ug/m ³	1.2	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
67-66-3	Chloroform	ND		ug/m ³	2.2	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
74-87-3	Chloromethane	ND		ug/m ³	0.94	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
156-59-2	cis-1,2-Dichloroethylene	1.3		ug/m ³	0.45	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	2.1	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
110-82-7	Cyclohexane	2.8		ug/m ³	1.6	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
124-48-1	Dibromochloromethane	ND		ug/m ³	3.9	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
75-71-8	Dichlorodifluoromethane	2.7		ug/m ³	2.3	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
141-78-6	* Ethyl acetate	ND		ug/m ³	3.3	4.57	EPA TO-15 Certifications:	03/18/2021 10:00	03/18/2021 18:12	AS
100-41-4	Ethyl Benzene	29		ug/m ³	2.0	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
87-68-3	Hexachlorobutadiene	ND		ug/m ³	4.9	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS



Sample Information

Client Sample ID: VP-1

York Sample ID: 21C0634-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21C0634

567 Main Street Westbury, NY

Soil Vapor

March 11, 2021 12:00 am

03/12/2021

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
67-63-0	Isopropanol	6.3		ug/m ³	2.2	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
80-62-6	Methyl Methacrylate	ND		ug/m ³	1.9	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	1.6	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
75-09-2	Methylene chloride	30		ug/m ³	3.2	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
142-82-5	n-Heptane	8.8		ug/m ³	1.9	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
110-54-3	n-Hexane	8.1		ug/m ³	1.6	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
95-47-6	o-Xylene	72		ug/m ³	2.0	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
179601-23-1	p- & m- Xylenes	150		ug/m ³	4.0	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
622-96-8	* p-Ethyltoluene	13		ug/m ³	2.2	4.57	EPA TO-15 Certifications:	03/18/2021 10:00	03/18/2021 18:12	AS
115-07-1	* Propylene	ND		ug/m ³	0.79	4.57	EPA TO-15 Certifications:	03/18/2021 10:00	03/18/2021 18:12	AS
100-42-5	Styrene	ND		ug/m ³	1.9	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
127-18-4	Tetrachloroethylene	34		ug/m ³	3.1	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
109-99-9	* Tetrahydrofuran	ND		ug/m ³	2.7	4.57	EPA TO-15 Certifications:	03/18/2021 10:00	03/18/2021 18:12	AS
108-88-3	Toluene	28		ug/m ³	1.7	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	1.8	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	2.1	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
79-01-6	Trichloroethylene	710		ug/m ³	0.61	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
75-69-4	Trichlorofluoromethane (Freon 11)	5.9		ug/m ³	2.6	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
108-05-4	Vinyl acetate	ND		ug/m ³	1.6	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
593-60-2	Vinyl bromide	ND		ug/m ³	2.0	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS
75-01-4	Vinyl Chloride	ND		ug/m ³	0.58	4.57	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/18/2021 10:00	03/18/2021 18:12	AS



Sample Information

Client Sample ID: IA-1

York Sample ID: 21C0634-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21C0634

567 Main Street Westbury, NY

Indoor Ambient Air

March 11, 2021 12:00 am

03/12/2021

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/m ³	0.60	0.878	EPA TO-15 Certifications:	03/17/2021 11:00	03/18/2021 04:14	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	0.48	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	0.60	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	0.67	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.48	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.36	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.087	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	0.65	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
95-63-6	1,2,4-Trimethylbenzene	1.7		ug/m ³	0.43	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/m ³	0.67	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.53	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.36	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.41	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	0.61	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
108-67-8	1,3,5-Trimethylbenzene	0.52		ug/m ³	0.43	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
106-99-0	1,3-Butadiene	ND		ug/m ³	0.58	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.53	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.41	0.878	EPA TO-15 Certifications:	03/17/2021 11:00	03/18/2021 04:14	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.53	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
123-91-1	1,4-Dioxane	ND		ug/m ³	0.63	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
78-93-3	2-Butanone	1.4		ug/m ³	0.26	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
591-78-6	* 2-Hexanone	ND		ug/m ³	0.72	0.878	EPA TO-15 Certifications:	03/17/2021 11:00	03/18/2021 04:14	LLJ
107-05-1	3-Chloropropene	ND		ug/m ³	1.4	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ



Sample Information

Client Sample ID: IA-1

York Sample ID: 21C0634-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21C0634

567 Main Street Westbury, NY

Indoor Ambient Air

March 11, 2021 12:00 am

03/12/2021

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
108-10-1	4-Methyl-2-pentanone	0.86		ug/m ³	0.36	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
67-64-1	Acetone	10		ug/m ³	0.42	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
107-13-1	Acrylonitrile	ND		ug/m ³	0.19	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
71-43-2	Benzene	0.98		ug/m ³	0.28	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
100-44-7	Benzyl chloride	ND		ug/m ³	0.45	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
75-27-4	Bromodichloromethane	ND		ug/m ³	0.59	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
75-25-2	Bromoform	ND		ug/m ³	0.91	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
74-83-9	Bromomethane	ND		ug/m ³	0.34	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
75-15-0	Carbon disulfide	ND		ug/m ³	0.27	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
56-23-5	Carbon tetrachloride	0.44		ug/m ³	0.14	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
108-90-7	Chlorobenzene	ND		ug/m ³	0.40	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
75-00-3	Chloroethane	ND		ug/m ³	0.23	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
67-66-3	Chloroform	ND		ug/m ³	0.43	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
74-87-3	Chloromethane	1.1		ug/m ³	0.18	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.087	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.40	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
110-82-7	Cyclohexane	0.70		ug/m ³	0.30	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
124-48-1	Dibromochloromethane	ND		ug/m ³	0.75	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
75-71-8	Dichlorodifluoromethane	2.2		ug/m ³	0.43	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
141-78-6	* Ethyl acetate	0.79		ug/m ³	0.63	0.878	EPA TO-15 Certifications:	03/17/2021 11:00	03/18/2021 04:14	LLJ
100-41-4	Ethyl Benzene	1.7		ug/m ³	0.38	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/m ³	0.94	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
67-63-0	Isopropanol	7.5		ug/m ³	0.43	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ



Sample Information

Client Sample ID: IA-1

York Sample ID: 21C0634-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21C0634

567 Main Street Westbury, NY

Indoor Ambient Air

March 11, 2021 12:00 am

03/12/2021

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
80-62-6	Methyl Methacrylate	0.50		ug/m ³	0.36	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.32	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
75-09-2	Methylene chloride	5.1		ug/m ³	0.61	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
142-82-5	n-Heptane	1.0		ug/m ³	0.36	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
110-54-3	n-Hexane	1.4		ug/m ³	0.31	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
95-47-6	o-Xylene	2.7		ug/m ³	0.38	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
179601-23-1	p- & m- Xylenes	7.2		ug/m ³	0.76	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
622-96-8	* p-Ethyltoluene	1.5		ug/m ³	0.43	0.878	EPA TO-15 Certifications:	03/17/2021 11:00	03/18/2021 04:14	LLJ
115-07-1	* Propylene	ND		ug/m ³	0.15	0.878	EPA TO-15 Certifications:	03/17/2021 11:00	03/18/2021 04:14	LLJ
100-42-5	Styrene	ND		ug/m ³	0.37	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
127-18-4	Tetrachloroethylene	1.7		ug/m ³	0.60	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
109-99-9	* Tetrahydrofuran	ND		ug/m ³	0.52	0.878	EPA TO-15 Certifications:	03/17/2021 11:00	03/18/2021 04:14	LLJ
108-88-3	Toluene	6.4		ug/m ³	0.33	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.35	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.40	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
79-01-6	Trichloroethylene	2.0		ug/m ³	0.12	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
75-69-4	Trichlorofluoromethane (Freon 11)	1.2		ug/m ³	0.49	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
108-05-4	Vinyl acetate	ND		ug/m ³	0.31	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
593-60-2	Vinyl bromide	ND		ug/m ³	0.38	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ
75-01-4	Vinyl Chloride	ND		ug/m ³	0.11	0.878	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 04:14	LLJ



Sample Information

Client Sample ID: VP-2

York Sample ID: 21C0634-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21C0634

567 Main Street Westbury, NY

Soil Vapor

March 11, 2021 12:00 am

03/12/2021

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/m ³	11	16.58	EPA TO-15 Certifications:	03/17/2021 11:00	03/18/2021 05:10	LLJ
71-55-6	1,1,1-Trichloroethane	19		ug/m ³	9.0	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	11	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	13	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	9.0	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/m ³	6.7	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	1.6	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	12	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
95-63-6	1,2,4-Trimethylbenzene	14		ug/m ³	8.2	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/m ³	13	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	10	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/m ³	6.7	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/m ³	7.7	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	12	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m ³	8.2	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
106-99-0	1,3-Butadiene	ND		ug/m ³	11	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	10	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	7.7	16.58	EPA TO-15 Certifications:	03/17/2021 11:00	03/18/2021 05:10	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	10	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
123-91-1	1,4-Dioxane	ND		ug/m ³	12	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
78-93-3	2-Butanone	34		ug/m ³	4.9	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
591-78-6	* 2-Hexanone	ND		ug/m ³	14	16.58	EPA TO-15 Certifications:	03/17/2021 11:00	03/18/2021 05:10	LLJ
107-05-1	3-Chloropropene	ND		ug/m ³	26	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ



Sample Information

Client Sample ID: VP-2

York Sample ID: 21C0634-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21C0634

567 Main Street Westbury, NY

Soil Vapor

March 11, 2021 12:00 am

03/12/2021

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
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	6.8	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
67-64-1	Acetone	1100		ug/m ³	7.9	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
107-13-1	Acrylonitrile	ND		ug/m ³	3.6	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
71-43-2	Benzene	7.4		ug/m ³	5.3	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
100-44-7	Benzyl chloride	ND		ug/m ³	8.6	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
75-27-4	Bromodichloromethane	ND		ug/m ³	11	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
75-25-2	Bromoform	ND		ug/m ³	17	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
74-83-9	Bromomethane	ND		ug/m ³	6.4	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
75-15-0	Carbon disulfide	ND		ug/m ³	5.2	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
56-23-5	Carbon tetrachloride	ND		ug/m ³	2.6	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
108-90-7	Chlorobenzene	ND		ug/m ³	7.6	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
75-00-3	Chloroethane	ND		ug/m ³	4.4	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
67-66-3	Chloroform	ND		ug/m ³	8.1	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
74-87-3	Chloromethane	ND		ug/m ³	3.4	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
156-59-2	cis-1,2-Dichloroethylene	2.6		ug/m ³	1.6	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	7.5	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
110-82-7	Cyclohexane	5.7		ug/m ³	5.7	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
124-48-1	Dibromochloromethane	ND		ug/m ³	14	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/m ³	8.2	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
141-78-6	* Ethyl acetate	ND		ug/m ³	12	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
100-41-4	Ethyl Benzene	12		ug/m ³	7.2	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/m ³	18	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
67-63-0	Isopropanol	14		ug/m ³	8.2	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ



Sample Information

Client Sample ID: VP-2

York Sample ID: 21C0634-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21C0634

567 Main Street Westbury, NY

Soil Vapor

March 11, 2021 12:00 am

03/12/2021

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
80-62-6	Methyl Methacrylate	7.5		ug/m ³	6.8	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	6.0	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
75-09-2	Methylene chloride	59		ug/m ³	12	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
142-82-5	n-Heptane	12		ug/m ³	6.8	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
110-54-3	n-Hexane	19		ug/m ³	5.8	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
95-47-6	o-Xylene	17		ug/m ³	7.2	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
179601-23-1	p- & m- Xylenes	45		ug/m ³	14	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
622-96-8	* p-Ethyltoluene	15		ug/m ³	8.2	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
115-07-1	* Propylene	9.4		ug/m ³	2.9	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
100-42-5	Styrene	ND		ug/m ³	7.1	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
127-18-4	Tetrachloroethylene	360		ug/m ³	11	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
109-99-9	* Tetrahydrofuran	ND		ug/m ³	9.8	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
108-88-3	Toluene	46		ug/m ³	6.2	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	6.6	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	7.5	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
79-01-6	Trichloroethylene	1800		ug/m ³	2.2	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
75-69-4	Trichlorofluoromethane (Freon 11)	10		ug/m ³	9.3	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
108-05-4	Vinyl acetate	ND		ug/m ³	5.8	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
593-60-2	Vinyl bromide	ND		ug/m ³	7.3	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ
75-01-4	Vinyl Chloride	ND		ug/m ³	2.1	16.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 05:10	LLJ



Sample Information

Client Sample ID: IA-2

York Sample ID: 21C0634-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21C0634

567 Main Street Westbury, NY

Indoor Ambient Air

March 11, 2021 12:00 am

03/12/2021

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/m ³	0.63	0.917	EPA TO-15 Certifications:	03/17/2021 11:00	03/18/2021 06:20	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	0.50	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	0.63	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	0.70	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.50	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.37	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.091	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	0.68	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
95-63-6	1,2,4-Trimethylbenzene	1.9		ug/m ³	0.45	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/m ³	0.70	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.55	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.37	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.42	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	0.64	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
108-67-8	1,3,5-Trimethylbenzene	0.54		ug/m ³	0.45	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
106-99-0	1,3-Butadiene	ND		ug/m ³	0.61	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.55	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.42	0.917	EPA TO-15 Certifications:	03/17/2021 11:00	03/18/2021 06:20	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.55	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
123-91-1	1,4-Dioxane	ND		ug/m ³	0.66	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
78-93-3	2-Butanone	1.2		ug/m ³	0.27	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
591-78-6	* 2-Hexanone	ND		ug/m ³	0.75	0.917	EPA TO-15 Certifications:	03/17/2021 11:00	03/18/2021 06:20	LLJ
107-05-1	3-Chloropropene	ND		ug/m ³	1.4	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ



Sample Information

Client Sample ID: IA-2

York Sample ID: 21C0634-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21C0634

567 Main Street Westbury, NY

Indoor Ambient Air

March 11, 2021 12:00 am

03/12/2021

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
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	0.38	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
67-64-1	Acetone	12		ug/m ³	0.44	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
107-13-1	Acrylonitrile	ND		ug/m ³	0.20	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
71-43-2	Benzene	1.5		ug/m ³	0.29	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
100-44-7	Benzyl chloride	ND		ug/m ³	0.47	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
75-27-4	Bromodichloromethane	ND		ug/m ³	0.61	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
75-25-2	Bromoform	ND		ug/m ³	0.95	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
74-83-9	Bromomethane	ND		ug/m ³	0.36	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
75-15-0	Carbon disulfide	ND		ug/m ³	0.29	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
56-23-5	Carbon tetrachloride	0.40		ug/m ³	0.14	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
108-90-7	Chlorobenzene	ND		ug/m ³	0.42	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
75-00-3	Chloroethane	ND		ug/m ³	0.24	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
67-66-3	Chloroform	ND		ug/m ³	0.45	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
74-87-3	Chloromethane	1.2		ug/m ³	0.19	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.091	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.42	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
110-82-7	Cyclohexane	1.5		ug/m ³	0.32	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
124-48-1	Dibromochloromethane	ND		ug/m ³	0.78	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
75-71-8	Dichlorodifluoromethane	2.3		ug/m ³	0.45	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
141-78-6	* Ethyl acetate	ND		ug/m ³	0.66	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
100-41-4	Ethyl Benzene	2.0		ug/m ³	0.40	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/m ³	0.98	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
67-63-0	Isopropanol	5.2		ug/m ³	0.45	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ



Sample Information

Client Sample ID: IA-2

York Sample ID: 21C0634-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21C0634

567 Main Street Westbury, NY

Indoor Ambient Air

March 11, 2021 12:00 am

03/12/2021

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
80-62-6	Methyl Methacrylate	2.0		ug/m ³	0.38	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.33	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
75-09-2	Methylene chloride	25		ug/m ³	0.64	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
142-82-5	n-Heptane	1.9		ug/m ³	0.38	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
110-54-3	n-Hexane	3.5		ug/m ³	0.32	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
95-47-6	o-Xylene	3.4		ug/m ³	0.40	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
179601-23-1	p- & m- Xylenes	9.0		ug/m ³	0.80	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
622-96-8	* p-Ethyltoluene	1.7		ug/m ³	0.45	0.917	EPA TO-15 Certifications:	03/17/2021 11:00	03/18/2021 06:20	LLJ
115-07-1	* Propylene	ND		ug/m ³	0.16	0.917	EPA TO-15 Certifications:	03/17/2021 11:00	03/18/2021 06:20	LLJ
100-42-5	Styrene	ND		ug/m ³	0.39	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
127-18-4	Tetrachloroethylene	1.5		ug/m ³	0.62	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
109-99-9	* Tetrahydrofuran	0.92		ug/m ³	0.54	0.917	EPA TO-15 Certifications:	03/17/2021 11:00	03/18/2021 06:20	LLJ
108-88-3	Toluene	5.9		ug/m ³	0.35	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
156-60-5	trans-1,2-Dichloroethylene	0.55		ug/m ³	0.36	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.42	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
79-01-6	Trichloroethylene	1.4		ug/m ³	0.12	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
75-69-4	Trichlorofluoromethane (Freon 11)	1.2		ug/m ³	0.52	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
108-05-4	Vinyl acetate	ND		ug/m ³	0.32	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
593-60-2	Vinyl bromide	ND		ug/m ³	0.40	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ
75-01-4	Vinyl Chloride	ND		ug/m ³	0.12	0.917	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 06:20	LLJ



Sample Information

Client Sample ID: Outside

York Sample ID: 21C0634-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21C0634

567 Main Street Westbury, NY

Outdoor Ambient Air

March 11, 2021 12:00 am

03/12/2021

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/m ³	0.72	1.053	EPA TO-15 Certifications:	03/17/2021 11:00	03/18/2021 07:31	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	0.57	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	0.72	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	0.81	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.57	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.43	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.10	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	0.78	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
95-63-6	1,2,4-Trimethylbenzene	3.3		ug/m ³	0.52	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/m ³	0.81	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.63	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.43	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.49	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	0.74	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
108-67-8	1,3,5-Trimethylbenzene	0.78		ug/m ³	0.52	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
106-99-0	1,3-Butadiene	ND		ug/m ³	0.70	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.63	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.49	1.053	EPA TO-15 Certifications:	03/17/2021 11:00	03/18/2021 07:31	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.63	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
123-91-1	1,4-Dioxane	ND		ug/m ³	0.76	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
78-93-3	2-Butanone	3.0		ug/m ³	0.31	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
591-78-6	* 2-Hexanone	ND		ug/m ³	0.86	1.053	EPA TO-15 Certifications:	03/17/2021 11:00	03/18/2021 07:31	LLJ
107-05-1	3-Chloropropene	ND		ug/m ³	1.6	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ



Sample Information

Client Sample ID: Outside

York Sample ID: 21C0634-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21C0634

567 Main Street Westbury, NY

Outdoor Ambient Air

March 11, 2021 12:00 am

03/12/2021

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
108-10-1	4-Methyl-2-pentanone	1.7		ug/m ³	0.43	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
67-64-1	Acetone	18		ug/m ³	0.50	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
107-13-1	Acrylonitrile	ND		ug/m ³	0.23	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
71-43-2	Benzene	1.0		ug/m ³	0.34	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
100-44-7	Benzyl chloride	ND		ug/m ³	0.55	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
75-27-4	Bromodichloromethane	ND		ug/m ³	0.71	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
75-25-2	Bromoform	ND		ug/m ³	1.1	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
74-83-9	Bromomethane	ND		ug/m ³	0.41	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
75-15-0	Carbon disulfide	ND		ug/m ³	0.33	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
56-23-5	Carbon tetrachloride	0.40		ug/m ³	0.17	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
108-90-7	Chlorobenzene	ND		ug/m ³	0.48	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
75-00-3	Chloroethane	ND		ug/m ³	0.28	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
67-66-3	Chloroform	ND		ug/m ³	0.51	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
74-87-3	Chloromethane	1.2		ug/m ³	0.22	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.10	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.48	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
110-82-7	Cyclohexane	0.69		ug/m ³	0.36	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
124-48-1	Dibromochloromethane	ND		ug/m ³	0.90	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
75-71-8	Dichlorodifluoromethane	2.2		ug/m ³	0.52	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
141-78-6	* Ethyl acetate	1.1		ug/m ³	0.76	1.053	EPA TO-15 Certifications:	03/17/2021 11:00	03/18/2021 07:31	LLJ
100-41-4	Ethyl Benzene	1.5		ug/m ³	0.46	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.1	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
67-63-0	Isopropanol	36		ug/m ³	0.52	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ



Sample Information

Client Sample ID: Outside

York Sample ID: 21C0634-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21C0634

567 Main Street Westbury, NY

Outdoor Ambient Air

March 11, 2021 12:00 am

03/12/2021

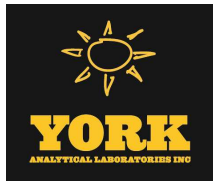
Volatile Organics, EPA TO15 Full List

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
80-62-6	Methyl Methacrylate	1.0		ug/m ³	0.43	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.38	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
75-09-2	Methylene chloride	3.5		ug/m ³	0.73	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
142-82-5	n-Heptane	0.95		ug/m ³	0.43	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
110-54-3	n-Hexane	1.4		ug/m ³	0.37	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
95-47-6	o-Xylene	2.4		ug/m ³	0.46	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
179601-23-1	p- & m- Xylenes	5.8		ug/m ³	0.91	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
622-96-8	* p-Ethyltoluene	2.6		ug/m ³	0.52	1.053	EPA TO-15 Certifications:	03/17/2021 11:00	03/18/2021 07:31	LLJ
115-07-1	* Propylene	ND		ug/m ³	0.18	1.053	EPA TO-15 Certifications:	03/17/2021 11:00	03/18/2021 07:31	LLJ
100-42-5	Styrene	ND		ug/m ³	0.45	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
127-18-4	Tetrachloroethylene	2.7		ug/m ³	0.71	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
109-99-9	* Tetrahydrofuran	0.87		ug/m ³	0.62	1.053	EPA TO-15 Certifications:	03/17/2021 11:00	03/18/2021 07:31	LLJ
108-88-3	Toluene	6.3		ug/m ³	0.40	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.42	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.48	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
79-01-6	Trichloroethylene	ND		ug/m ³	0.14	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
75-69-4	Trichlorofluoromethane (Freon 11)	1.2		ug/m ³	0.59	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
108-05-4	Vinyl acetate	ND		ug/m ³	0.37	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
593-60-2	Vinyl bromide	ND		ug/m ³	0.46	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ
75-01-4	Vinyl Chloride	ND		ug/m ³	0.13	1.053	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/17/2021 11:00	03/18/2021 07:31	LLJ



Analytical Batch Summary

Batch ID: BC10894

Preparation Method: EPA TO15 PREP

Prepared By: LJ

YORK Sample ID	Client Sample ID	Preparation Date
21C0634-02	IA-1	03/17/21
21C0634-03	VP-2	03/17/21
21C0634-04	IA-2	03/17/21
21C0634-05	Outside	03/17/21
BC10894-BLK1	Blank	03/17/21
BC10894-BS1	LCS	03/17/21
BC10894-DUP1	Duplicate	03/17/21

Batch ID: BC11111

Preparation Method: EPA TO15 PREP

Prepared By: LJ

YORK Sample ID	Client Sample ID	Preparation Date
21C0634-01	VP-1	03/18/21
BC11111-BLK1	Blank	03/18/21
BC11111-BS1	LCS	03/18/21



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BC10894 - EPA TO15 PREP

Blank (BC10894-BLK1)

Prepared & Analyzed: 03/17/2021

1,1,1,2-Tetrachloroethane	ND	0.69	ug/m ³								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.099	"								
1,2,4-Trichlorobenzene	ND	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	0.66	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	0.48	"								
Acrylonitrile	ND	0.22	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.67	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								
Carbon disulfide	ND	0.31	"								
Carbon tetrachloride	ND	0.16	"								
Chlorobenzene	ND	0.46	"								
Chloroethane	ND	0.26	"								
Chloroform	ND	0.49	"								
Chloromethane	ND	0.21	"								
cis-1,2-Dichloroethylene	ND	0.099	"								
cis-1,3-Dichloropropylene	ND	0.45	"								
Cyclohexane	ND	0.34	"								
Dibromochloromethane	ND	0.85	"								
Dichlorodifluoromethane	ND	0.49	"								
Ethyl acetate	ND	0.72	"								
Ethyl Benzene	ND	0.43	"								
Hexachlorobutadiene	ND	1.1	"								
Isopropanol	ND	0.49	"								
Methyl Methacrylate	ND	0.41	"								
Methyl tert-butyl ether (MTBE)	ND	0.36	"								
Methylene chloride	ND	0.69	"								



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit			Result					RPD	

Batch BC10894 - EPA TO15 PREP

Blank (BC10894-BLK1)

Prepared & Analyzed: 03/17/2021

n-Heptane	ND	0.41	ug/m ³
n-Hexane	ND	0.35	"
o-Xylene	ND	0.43	"
p- & m- Xylenes	ND	0.87	"
p-Ethyltoluene	ND	0.49	"
Propylene	ND	0.17	"
Styrene	ND	0.43	"
Tetrachloroethylene	ND	0.68	"
Tetrahydrofuran	ND	0.59	"
Toluene	ND	0.38	"
trans-1,2-Dichloroethylene	ND	0.40	"
trans-1,3-Dichloropropylene	ND	0.45	"
Trichloroethylene	ND	0.13	"
Trichlorofluoromethane (Freon 11)	ND	0.56	"
Vinyl acetate	ND	0.35	"
Vinyl bromide	ND	0.44	"
Vinyl Chloride	ND	0.13	"

LCS (BC10894-BS1)

Prepared & Analyzed: 03/17/2021

1,1,1,2-Tetrachloroethane	8.92		ppbv	10.0	89.2	70-130
1,1,1-Trichloroethane	9.03		"	10.0	90.3	70-130
1,1,2,2-Tetrachloroethane	8.83		"	10.0	88.3	70-130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.69		"	10.0	86.9	70-130
1,1,2-Trichloroethane	9.07		"	10.0	90.7	70-130
1,1-Dichloroethane	8.63		"	10.0	86.3	70-130
1,1-Dichloroethylene	8.53		"	10.0	85.3	70-130
1,2,4-Trichlorobenzene	8.02		"	10.0	80.2	70-130
1,2,4-Trimethylbenzene	9.25		"	10.0	92.5	70-130
1,2-Dibromoethane	9.18		"	10.0	91.8	70-130
1,2-Dichlorobenzene	8.28		"	10.0	82.8	70-130
1,2-Dichloroethane	8.70		"	10.0	87.0	70-130
1,2-Dichloropropane	9.23		"	10.0	92.3	70-130
1,2-Dichlorotetrafluoroethane	9.57		"	10.0	95.7	70-130
1,3,5-Trimethylbenzene	9.22		"	10.0	92.2	70-130
1,3-Butadiene	9.43		"	10.0	94.3	70-130
1,3-Dichlorobenzene	8.45		"	10.0	84.5	70-130
1,3-Dichloropropane	8.97		"	10.0	89.7	70-130
1,4-Dichlorobenzene	8.49		"	10.0	84.9	70-130
1,4-Dioxane	7.20		"	10.0	72.0	70-130
2-Butanone	8.90		"	10.0	89.0	70-130
2-Hexanone	8.29		"	10.0	82.9	70-130
3-Chloropropene	9.64		"	10.0	96.4	70-130
4-Methyl-2-pentanone	8.63		"	10.0	86.3	70-130
Acetone	8.04		"	10.0	80.4	70-130
Acrylonitrile	9.48		"	10.0	94.8	70-130
Benzene	8.74		"	10.0	87.4	70-130
Benzyl chloride	8.68		"	10.0	86.8	70-130
Bromodichloromethane	9.33		"	10.0	93.3	70-130
Bromoform	9.70		"	10.0	97.0	70-130
Bromomethane	9.43		"	10.0	94.3	70-130
Carbon disulfide	8.80		"	10.0	88.0	70-130



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	%REC Limits	Flag	RPD	RPD	Flag
		Limit			Result					Limit	

Batch BC10894 - EPA TO15 PREP

LCS (BC10894-BS1)

Prepared & Analyzed: 03/17/2021

Carbon tetrachloride	8.49		ppbv	10.0		84.9	70-130				
Chlorobenzene	8.48		"	10.0		84.8	70-130				
Chloroethane	9.85		"	10.0		98.5	70-130				
Chloroform	8.79		"	10.0		87.9	70-130				
Chloromethane	9.00		"	10.0		90.0	70-130				
cis-1,2-Dichloroethylene	8.39		"	10.0		83.9	70-130				
cis-1,3-Dichloropropylene	9.69		"	10.0		96.9	70-130				
Cyclohexane	9.82		"	10.0		98.2	70-130				
Dibromochloromethane	9.42		"	10.0		94.2	70-130				
Dichlorodifluoromethane	8.44		"	10.0		84.4	70-130				
Ethyl acetate	8.42		"	10.0		84.2	70-130				
Ethyl Benzene	9.03		"	10.0		90.3	70-130				
Hexachlorobutadiene	7.99		"	10.0		79.9	70-130				
Isopropanol	8.05		"	10.0		80.5	70-130				
Methyl Methacrylate	8.95		"	10.0		89.5	70-130				
Methyl tert-butyl ether (MTBE)	9.28		"	10.0		92.8	70-130				
Methylene chloride	8.37		"	10.0		83.7	70-130				
n-Heptane	9.88		"	10.0		98.8	70-130				
n-Hexane	8.68		"	10.0		86.8	70-130				
o-Xylene	9.52		"	10.0		95.2	70-130				
p- & m- Xylenes	18.5		"	20.0		92.4	70-130				
p-Ethyltoluene	9.34		"	10.0		93.4	70-130				
Propylene	8.80		"	10.0		88.0	70-130				
Styrene	9.45		"	10.0		94.5	70-130				
Tetrachloroethylene	9.23		"	10.0		92.3	70-130				
Tetrahydrofuran	9.03		"	10.0		90.3	70-130				
Toluene	9.04		"	10.0		90.4	70-130				
trans-1,2-Dichloroethylene	8.78		"	10.0		87.8	70-130				
trans-1,3-Dichloropropylene	9.61		"	10.0		96.1	70-130				
Trichloroethylene	8.83		"	10.0		88.3	70-130				
Trichlorofluoromethane (Freon 11)	8.65		"	10.0		86.5	70-130				
Vinyl acetate	7.21		"	10.0		72.1	70-130				
Vinyl bromide	9.03		"	10.0		90.3	70-130				
Vinyl Chloride	8.57		"	10.0		85.7	70-130				



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag	
Batch BC10894 - EPA TO15 PREP												
Duplicate (BC10894-DUP1)	*Source sample: 21C0602-04 (Duplicate)						Prepared & Analyzed: 03/17/2021					
1,1,1,2-Tetrachloroethane	ND	0.62	ug/m ³		ND					25		
1,1,1-Trichloroethane	ND	0.49	"		ND					25		
1,1,2,2-Tetrachloroethane	ND	0.62	"		ND					25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.69	"		ND					25		
1,1,2-Trichloroethane	ND	0.49	"		ND					25		
1,1-Dichloroethane	ND	0.37	"		ND					25		
1,1-Dichloroethylene	ND	0.090	"		ND					25		
1,2,4-Trichlorobenzene	ND	0.67	"		ND					25		
1,2,4-Trimethylbenzene	0.58	0.44	"		0.58				0.00	25		
1,2-Dibromoethane	ND	0.70	"		ND					25		
1,2-Dichlorobenzene	ND	0.54	"		ND					25		
1,2-Dichloroethane	ND	0.37	"		ND					25		
1,2-Dichloropropane	ND	0.42	"		ND					25		
1,2-Dichlorotetrafluoroethane	ND	0.63	"		ND					25		
1,3,5-Trimethylbenzene	ND	0.44	"		ND					25		
1,3-Butadiene	ND	0.60	"		ND					25		
1,3-Dichlorobenzene	ND	0.54	"		ND					25		
1,3-Dichloropropane	ND	0.42	"		ND					25		
1,4-Dichlorobenzene	ND	0.54	"		ND					25		
1,4-Dioxane	ND	0.65	"		ND					25		
2-Butanone	1.9	0.27	"		1.9				0.00	25		
2-Hexanone	ND	0.74	"		ND					25		
3-Chloropropene	ND	1.4	"		ND					25		
4-Methyl-2-pentanone	ND	0.37	"		ND					25		
Acetone	12	0.43	"		12				0.547	25		
Acrylonitrile	ND	0.20	"		ND					25		
Benzene	0.66	0.29	"		0.66				0.00	25		
Benzyl chloride	ND	0.47	"		ND					25		
Bromodichloromethane	ND	0.61	"		ND					25		
Bromoform	ND	0.94	"		ND					25		
Bromomethane	ND	0.35	"		ND					25		
Carbon disulfide	ND	0.28	"		ND					25		
Carbon tetrachloride	0.51	0.14	"		0.46				11.8	25		
Chlorobenzene	ND	0.42	"		ND					25		
Chloroethane	ND	0.24	"		ND					25		
Chloroform	ND	0.44	"		ND					25		
Chloromethane	1.1	0.19	"		1.3				17.6	25		
cis-1,2-Dichloroethylene	ND	0.090	"		ND					25		
cis-1,3-Dichloropropylene	ND	0.41	"		ND					25		
Cyclohexane	ND	0.31	"		ND					25		
Dibromochloromethane	ND	0.77	"		ND					25		
Dichlorodifluoromethane	3.5	0.45	"		3.6				1.26	25		
Ethyl acetate	0.91	0.65	"		0.88				3.64	25		
Ethyl Benzene	0.28	0.39	"		0.28				0.00	25		
Hexachlorobutadiene	ND	0.97	"		ND					25		
Isopropanol	11	0.44	"		11				1.60	25		
Methyl Methacrylate	3.0	0.37	"		3.0				1.24	25		
Methyl tert-butyl ether (MTBE)	ND	0.33	"		ND					25		
Methylene chloride	31	0.63	"		31				1.51	25		
n-Heptane	14	0.37	"		14				1.63	25		



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BC10894 - EPA TO15 PREP

Duplicate (BC10894-DUP1)	*Source sample: 21C0602-04 (Duplicate)				Prepared & Analyzed: 03/17/2021						
n-Hexane	0.67	0.32	ug/m ³		0.64					4.88	25
o-Xylene	0.39	0.39	"		0.39					0.00	25
p- & m- Xylenes	0.98	0.79	"		0.98					0.00	25
p-Ethyltoluene	0.44	0.44	"		0.44					0.00	25
Propylene	ND	0.16	"		ND						25
Styrene	ND	0.39	"		ND						25
Tetrachloroethylene	410	0.61	"		420				0.741		25
Tetrahydrofuran	ND	0.53	"		ND						25
Toluene	1.6	0.34	"		1.6				0.00		25
trans-1,2-Dichloroethylene	ND	0.36	"		ND						25
trans-1,3-Dichloropropylene	ND	0.41	"		ND						25
Trichloroethylene	12	0.12	"		12				1.24		25
Trichlorofluoromethane (Freon 11)	11	0.51	"		11				0.473		25
Vinyl acetate	ND	0.32	"		ND						25
Vinyl bromide	ND	0.40	"		ND						25
Vinyl Chloride	ND	0.12	"		ND						25

Batch BC11111 - EPA TO15 PREP

Blank (BC11111-BLK1)	Prepared & Analyzed: 03/18/2021										
1,1,1,2-Tetrachloroethane	ND	0.69	ug/m ³								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.099	"								
1,2,4-Trichlorobenzene	ND	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	0.66	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	0.48	"								
Acrylonitrile	ND	0.22	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.67	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	Limits	Flag	RPD	Limit	Flag
		Limit		Level	Result	%REC			RPD		

Batch BC11111 - EPA TO15 PREP

Blank (BC11111-BLK1)

Prepared & Analyzed: 03/18/2021

Carbon disulfide	ND	0.31	ug/m ³
Carbon tetrachloride	ND	0.16	"
Chlorobenzene	ND	0.46	"
Chloroethane	ND	0.26	"
Chloroform	ND	0.49	"
Chloromethane	ND	0.21	"
cis-1,2-Dichloroethylene	ND	0.099	"
cis-1,3-Dichloropropylene	ND	0.45	"
Cyclohexane	ND	0.34	"
Dibromochloromethane	ND	0.85	"
Dichlorodifluoromethane	ND	0.49	"
Ethyl acetate	ND	0.72	"
Ethyl Benzene	ND	0.43	"
Hexachlorobutadiene	ND	1.1	"
Isopropanol	ND	0.49	"
Methyl Methacrylate	ND	0.41	"
Methyl tert-butyl ether (MTBE)	ND	0.36	"
Methylene chloride	ND	0.69	"
n-Heptane	ND	0.41	"
n-Hexane	ND	0.35	"
o-Xylene	ND	0.43	"
p- & m- Xylenes	ND	0.87	"
p-Ethyltoluene	ND	0.49	"
Propylene	ND	0.17	"
Styrene	ND	0.43	"
Tetrachloroethylene	ND	0.68	"
Tetrahydrofuran	ND	0.59	"
Toluene	ND	0.38	"
trans-1,2-Dichloroethylene	ND	0.40	"
trans-1,3-Dichloropropylene	ND	0.45	"
Trichloroethylene	ND	0.13	"
Trichlorofluoromethane (Freon 11)	ND	0.56	"
Vinyl acetate	ND	0.35	"
Vinyl bromide	ND	0.44	"
Vinyl Chloride	ND	0.13	"



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BC11111 - EPA TO15 PREP

LCS (BC11111-BS1)

Prepared & Analyzed: 03/18/2021

1,1,1,2-Tetrachloroethane	8.88		ppbv	10.0		88.8	70-130				
1,1,1-Trichloroethane	8.74		"	10.0		87.4	70-130				
1,1,2,2-Tetrachloroethane	8.88		"	10.0		88.8	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.70		"	10.0		87.0	70-130				
1,1,2-Trichloroethane	9.23		"	10.0		92.3	70-130				
1,1-Dichloroethane	8.63		"	10.0		86.3	70-130				
1,1-Dichloroethylene	8.48		"	10.0		84.8	70-130				
1,2,4-Trichlorobenzene	7.83		"	10.0		78.3	70-130				
1,2,4-Trimethylbenzene	9.06		"	10.0		90.6	70-130				
1,2-Dibromoethane	9.12		"	10.0		91.2	70-130				
1,2-Dichlorobenzene	8.12		"	10.0		81.2	70-130				
1,2-Dichloroethane	8.42		"	10.0		84.2	70-130				
1,2-Dichloropropane	9.48		"	10.0		94.8	70-130				
1,2-Dichlorotetrafluoroethane	9.81		"	10.0		98.1	70-130				
1,3,5-Trimethylbenzene	8.95		"	10.0		89.5	70-130				
1,3-Butadiene	9.32		"	10.0		93.2	70-130				
1,3-Dichlorobenzene	8.37		"	10.0		83.7	70-130				
1,3-Dichloropropane	9.07		"	10.0		90.7	70-130				
1,4-Dichlorobenzene	8.32		"	10.0		83.2	70-130				
1,4-Dioxane	7.25		"	10.0		72.5	70-130				
2-Butanone	9.01		"	10.0		90.1	70-130				
2-Hexanone	8.31		"	10.0		83.1	70-130				
3-Chloropropene	9.74		"	10.0		97.4	70-130				
4-Methyl-2-pentanone	8.68		"	10.0		86.8	70-130				
Acetone	7.91		"	10.0		79.1	70-130				
Acrylonitrile	9.71		"	10.0		97.1	70-130				
Benzene	8.87		"	10.0		88.7	70-130				
Benzyl chloride	8.32		"	10.0		83.2	70-130				
Bromodichloromethane	9.18		"	10.0		91.8	70-130				
Bromoform	9.65		"	10.0		96.5	70-130				
Bromomethane	9.60		"	10.0		96.0	70-130				
Carbon disulfide	9.06		"	10.0		90.6	70-130				
Carbon tetrachloride	8.26		"	10.0		82.6	70-130				
Chlorobenzene	8.59		"	10.0		85.9	70-130				
Chloroethane	9.94		"	10.0		99.4	70-130				
Chloroform	8.65		"	10.0		86.5	70-130				
Chloromethane	8.74		"	10.0		87.4	70-130				
cis-1,2-Dichloroethylene	8.44		"	10.0		84.4	70-130				
cis-1,3-Dichloropropylene	9.65		"	10.0		96.5	70-130				
Cyclohexane	10.0		"	10.0		100	70-130				
Dibromochloromethane	9.32		"	10.0		93.2	70-130				
Dichlorodifluoromethane	8.25		"	10.0		82.5	70-130				
Ethyl acetate	8.34		"	10.0		83.4	70-130				
Ethyl Benzene	9.10		"	10.0		91.0	70-130				
Hexachlorobutadiene	7.76		"	10.0		77.6	70-130				
Isopropanol	8.22		"	10.0		82.2	70-130				
Methyl Methacrylate	9.07		"	10.0		90.7	70-130				
Methyl tert-butyl ether (MTBE)	9.20		"	10.0		92.0	70-130				
Methylene chloride	8.41		"	10.0		84.1	70-130				
n-Heptane	10.1		"	10.0		101	70-130				



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

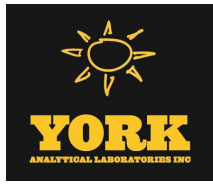
Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result					Limit			

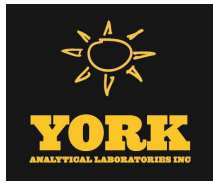
Batch BC11111 - EPA TO15 PREP

LCS (BC11111-BS1)

Prepared & Analyzed: 03/18/2021

n-Hexane	8.93		ppbv	10.0		89.3	70-130						
o-Xylene	9.46		"	10.0		94.6	70-130						
p- & m- Xylenes	18.5		"	20.0		92.4	70-130						
p-Ethyltoluene	9.29		"	10.0		92.9	70-130						
Propylene	8.90		"	10.0		89.0	70-130						
Styrene	9.46		"	10.0		94.6	70-130						
Tetrachloroethylene	9.19		"	10.0		91.9	70-130						
Tetrahydrofuran	9.37		"	10.0		93.7	70-130						
Toluene	9.07		"	10.0		90.7	70-130						
trans-1,2-Dichloroethylene	8.85		"	10.0		88.5	70-130						
trans-1,3-Dichloropropylene	9.43		"	10.0		94.3	70-130						
Trichloroethylene	8.82		"	10.0		88.2	70-130						
Trichlorofluoromethane (Freon 11)	8.45		"	10.0		84.5	70-130						
Vinyl acetate	7.05		"	10.0		70.5	70-130						
Vinyl bromide	9.22		"	10.0		92.2	70-130						
Vinyl Chloride	8.48		"	10.0		84.8	70-130						





Sample and Data Qualifiers Relating to This Work Order

E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.

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.

Attachment C

DATA USABILITY SUMMARY REPORT (DUSR)

ORGANIC ANALYSIS

**EPA Compendium Method TO-15
VOLATILE ORGANICS BY GC/MS
For Soil Vapor/Ambient Air Samples
Collected March 11, 2021
From 567 Main Street, Westbury, New York
by Seacliff Environmental Geology PC**

**SAMPLE DELIVERY GROUP NUMBER:
21C0634
York Analytical Laboratories Inc. (ELAP #12058)**

SUBMITTED TO:

**Mr. Jim DeMartinis
Seacliff Environmental Geology PC
PO Box 2085
Miller Place, NY 11764**

March 28, 2021

PREPARED BY:

**Lori A. Beyer/President
L.A.B. Validation Corp.
14 West Point Drive
East Northport, NY 11731**

Lori A. Beyer

567 Main Street, Westbury, New York; March 2021
Data Validation Report: Volatile Organics by EPA Method TO15

Table of Contents:

- Introduction
- Data Qualifier Definitions
- Sample Receipt

- 1.0 Volatile Organics by GC/MS EPA Compendium Method TO-15
 - 1.1 Holding Time
 - 1.2 Surrogate Standards
 - 1.3 Matrix Spikes (MS), Matrix Spike Duplicates (MSD), Laboratory Duplicate, Field Duplicate Analysis
 - 1.4 Laboratory Control Sample
 - 1.5 Blank Contamination
 - 1.6 GC/MS Instrument Performance Check
 - 1.7 Initial and Continuing Calibrations
 - 1.8 Internal Standards
 - 1.9 Target Compound List Identification
 - 1.10 Tentatively Identified Compounds
 - 1.11 Compound Quantification and Reported Detection Limits
 - 1.12 Overall System Performance

APPENDICES:

- A. Chain of Custody Document
- B. Case Narrative
- C. Data Summary Form Is with Qualifications

Introduction:

Validation was performed on soil vapor and ambient air samples for Volatile Organic analysis collected by Seacliff Environmental and submitted to York Analytical Laboratories for subsequent analysis under chain of custody documentation. This report contains the laboratory and validation results for the field samples itemized below. The samples were collected on March 11, 2021.

The samples were analyzed by York Analytical utilizing EPA Method TO-15 and in accordance with NYSDEC Analytical Services Protocol (2005) and submitted under NYSDEC ASP Category B equivalent deliverable requirements for the associated analytical methodology employed. The analytical testing consisted of the TO-15 Compound List.

The data was evaluated in accordance with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (Publication 9240.1-05), EPA SOP #HW31 (Revision 6-Updated September 2016) and in conjunction with the analytical methodology for which the samples were analyzed, where applicable and relevant.

The data validation report pertains to the following field samples:

Sample Identification	Laboratory Identification	Sample Matrix (Air Type)	Collection Date
VP-1	21C-634-01	Soil Vapor	03/11/2021
IA-1	21C-634-02	Indoor Ambient Air	03/11/2021
VP-2	21C-634-03	Soil Vapor	03/11/2021
IA-2	21C-634-04	Indoor Ambient Air	03/11/2021
Outside	21C-634-05	Outdoor Ambient Air	03/11/2021

Data Qualifier Definitions:

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

- U** - The analyte was analyzed for but was not detected above the reported sample quantitation limit.
- J** - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+** - The result is an estimated quantity, but the result may be biased high.
- J-** - The result is an estimated quantity, but the result may be biased low.
- NJ** - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
- UJ** - The analyte was analyzed for but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- R** - The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
- D** - Analyte concentration was obtained from diluted analysis.

Sample Receipt:

The Chain of Custody document indicates that the air samples were received on March 12, 2021 following completion of the sampling event. Sample login notes and the chain of custody indicate that at the Validated Time of Sample Receipt (VTSR) at the laboratory no discrepancies were notated and therefore the integrity of the summa canister samples is assumed to be good.

Summa Canisters were leak tested prior to collection of each sample. Initial pressure gauge is recorded on the chain of custody and is required to be approximately 30 psi with zero air. Acceptable canister pressure was observed for these samples. All canisters pass the leak check requirements.

The data summary Form I's included in Appendix C includes all usable (qualified) and unusable (rejected) results for the samples identified above and summarize the detailed narrative section of the report. Data validation qualifications have been reported on the Form I's for ease of review and verification.

NOTE:

L.A.B. Validation Corp. believes it is appropriate to note that the data validation criteria utilized for data evaluation is different than the method requirements utilized by the laboratory. Qualified data does not necessarily mean that the laboratory was non-compliant in the analysis that was performed.

1.0 Volatile Organics by EPA Compendium Method TO-15

The following method criteria were reviewed: holding times, surrogate standards, LCS, Blanks, Laboratory Duplicate, Tunes, Calibrations, Internal Standards, Target Component Identification and Quantitation, Reported Quantitation Limits and Overall System Performance. The volatile results are valid and useable as noted on the data summary table in Appendix C and within the following text:

1.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

Air samples were analyzed within the method and technical required holding times of thirty (30) days from sample collection for analysis. No qualifications were required based upon holding time criteria.

1.2 Surrogate Standards

All samples are spiked with surrogate compounds prior to sample analysis to evaluate overall laboratory performance and efficiency of the analytical technique. If the measure of surrogate concentrations is outside contract specifications, qualifications are required to be applied to associated samples and analytes.

Although Method TO15 does not mandate the addition of surrogate standards, surrogate 4-Bromofluorobenzene was used for analysis. Recovery values were acceptable.

1.3 Matrix Spikes (MS)/ Matrix Spike Duplicates (MSD)/Laboratory Duplicate /Field Duplicate Analysis

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices.

Matrix Spike/Matrix Spike Duplicate/Laboratory/Field Duplicate analysis was not performed on samples pertaining to this SDG. When performed, acceptable precision is 25%.

The following criteria are utilized for Field/Lab Duplicate analysis when performed:

Criteria	Detected Compounds	Non-Detected Compounds
The RPD is within the limits of 0 and 25%	No qualification	No qualification
The RPD >25%	J in the parent and duplicate samples	Not applicable
The RPD could not be calculated since the compound was only detected in either the parent or duplicate sample. However, the detected concentration was $\leq 2x$ the reporting limit	No qualification	No qualification
The RPD could not be calculated since the compound was only detected in either the parent or duplicate sample. However, the detected concentration was $> 2x$ the reporting limit.	J in the parent and duplicate sample	UJ in the parent of duplicate sample

No qualifications to the data were applied based on MS/MSD/Laboratory Duplicate or Field Duplicate analysis.

1.4 Laboratory Control Sample

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

The following table summarizes the LCS criteria and the data qualification guidelines for all associated field samples.

LCS	NOT QUALIFIED	J	R
% Recovery:			
Detects	70-130%	<70%, >130%	
Non-Detects	$\geq 130\%$	50-69%	<50%
Absolute RT of LCS Compounds:			
LCS Compounds in samples RT: (min)	± 0.33		≥ 0.33

Acceptable LCS was analyzed with each batch. Recovery values for all spiked compounds was determined to be $>70\%$ - $<130\%$ for all analytes. No qualifications to the data are required.

1.5 Blank Contamination

Quality assurance (QA) blanks, i.e., method, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations. Storage blanks measure cross-contamination during sample storage of the field samples and are not required for TO15 analysis. Canister blanks measure cross-contamination from the sampling media. The following table was utilized to qualify target analyte results due to method blank contamination. The largest value from all

the associated blanks is required to be utilized. The largest value from all the associated blanks is required to be utilized:

Blank Type	Blank Result	Sample Result	Action for Samples
Method, Storage, field, Trip, Instrument	Detects	Not Detected	No qualification required
	<CRQL*	<CRQL*	Report CRQL value with a U
		>= CRQL* and <2x the CRQL**	No qualification required
	>CRQL*	<= CRQL*	Report CRQL value with a U
		>=CRQL* and <= blank concentration	Report blank value for sample concentration with a U
		>= CRQL* and > blank concentration	No qualification required
	=CRQL*	<= CRQL*	Report CRQL value with a U
>CRQL*		No qualification required	
Gross Contamination**	Detects	Report blank value for sample concentration with a U	

*2x the CRQL for methylene chloride, 2-butanone, and acetone.

**4x the CRQL for methylene chloride, 2-butanone, and acetone

***Qualifications based on instrument blank results affect only the sample analyzed immediately after the sample that has target compounds that exceed the calibration range or non-target compounds that exceed 100 ug/L.

Below is a summary of the compounds in the sample and the associated qualifications that have been applied:

The table below is utilized to qualify samples with target compound results also present in certification blanks:

Certification Contamination	Sample Result	Action for Sample
>=detect limit	>5x certification contamination	No qualification required
>=detect limit	<detect limit	Detection limit "U"
>=detect limit	>=detect limit and <= 5x certification contamination level	5x certification contamination "U"
<detect limit	<=detection limit and >= detection limit	No qualification

Canister certification blank results were not provided in the lab report.

Below is a summary of the compounds in the sample and the associated qualifications that have been applied:

A) Method Blank Contamination:

Methylene Chloride (0.69 ug/m³) was detected in the method blanks associated with sample analysis. Sample concentrations were greater than the blank levels when evaluated based on the above criteria. The reported concentrations by the laboratory have not been qualified, "B."

**Methylene Chloride, Acetone and 2-Butanone are common laboratory contaminants. The end user should proceed with caution when making decisions based on these detections since these are common solvents utilized in the organic extraction laboratory and could not be negated due to lack of presence in the corresponding blanks.*

B) Field Blank Contamination:

Field Blank analysis was not required. Ambient Air samples were collected.

C) Trip Blank Contamination:

Trip Blank analysis was not required.

1.6 GC/MS Instrument Performance Check

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The Tuning standard for volatile organics is Bromofluorobenzene (BFB).

Instrument performance was generated within acceptable limits and frequency (24 hours) for Bromofluorobenzene (BFB) for all analyses.

1.7 Initial and Continuing Calibrations

Satisfactory instrument calibration is established to ensure that the instrument can produce acceptable quantitative data. An initial calibration demonstrates that the instrument can give acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for all compounds must be ≥ 0.05 in both initial and continuing calibrations. A value < 0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound in the corresponding samples will be rejected, "R".

The following compounds can be > 0.01 without qualification:

2-Butanone

Carbon Disulfide

Chloroethane

Chloromethane

1,2-Dibromoethane

1,2-Dichloropropane

1,4-Dioxane

1,2-Dibromo-3-chloropropane

Methylene Chloride

Response factors for the target analytes reported were found to be within acceptable limits (≥ 0.05) [or ≥ 0.01 for the 9 compounds above] and remaining analytes, for the initial and continuing calibrations.

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D): Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentrations. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be $< 30\%$ and %D must be $< 30\%$. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria ($> 90\%$), non-detect data may be qualified, "R", unusable. Additionally, in cases where the %RSD is $> 30\%$ and eliminating either the high or the low point of the curve does not restore the %RSD to less than or equal to 30% then positive results are qualified, "J". In cases where removal of either the low or high point restores the linearity, then only low or high-level results will be qualified, "J" in the portion of the curve where non-linearity exists. Acceptable ICV was analyzed.

Initial Calibrations: The initial calibrations provided and the %RSD was within acceptable limits (30%) and (40%) for poor responders for all requested target compounds. Initial calibration verification standard met QC requirements.

Continuing Calibrations: The continuing calibrations provided and the %D was within acceptable limits (30%) and (40%) for poor responders for all reported compounds.

1.8 Internal Standards

Internal Standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-40% to $+40\%$) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than ± 20 seconds from the associated continuing calibration standard. If the area count is outside the (-40% to $+40\%$) range of the associated standard, all positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 20 seconds, professional judgment will be used to determine either partial or total rejection of the data for that sample fraction.

Internal Standard area responses met QC requirements for all samples pertaining to this data set as compared to the continuing calibration.

1.9 Target Compound List Identification

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within ± 0.06 RRT units of the standard compound and have an ion spectrum which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound.

GC/MS spectra met the qualitative criteria for identification. Retention times were within required specifications.

1.10 Tentatively Identified Compounds (TICs)

TICs were not required for this project. When submitted, the identification must be considered tentative (both quantitative and qualitative) due to the lack of required compound specific response factors. Consequently, all concentrations should be considered estimated, "J" and because of the qualitative uncertainty should be qualified, "N" where an identification has been made.

TICs were not required with this data set. Sample chromatograms for VP-1 and VP-2 were similar and demonstrate late-eluting non-target presence which are most likely heavier molecular weight hydrocarbons.

1.11 Compound Quantification and Reported Detection Limits

GC/MS quantitative analysis are acceptable. Correct internal standards and response factors and air volumes were used to calculate final concentrations.

Sample results have been presented in ug/m³ on the laboratory reporting forms. Samples were analyzed at dilutions reported on the Form I's and final quantitation verified from raw data during the review. Any detections have been qualified, "D" by the laboratory. Analysis is acceptable.

1.12 Overall System Performance

GC/MS analytical methodology was acceptable for this analysis. The data reported agrees with the raw data provided in the final report. The laboratory provided complete data package and reported all data using acceptable protocols and laboratory qualifiers as defined in the report package.

Reviewer's Signature John A. B. W. P. Date 03/28/2021

**Appendix A
Chain of Custody Document**



York Analytical Laboratories, Inc.
120 Research Drive
Strafford, CT 06615
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record - AIR

YORK Project No.

21C0634

Your

Page _____ of _____

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.

YOUR INFORMATION		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time			
Company: <u>Seaciff Environmental</u>	Company: <u>Seaciff Environmental</u>	Company: <u>Seaciff Environmental</u>	Company: <u>Seaciff Environmental</u>	Company: <u>Seaciff Environmental</u>	Company: <u>Seaciff Environmental</u>	YOUR Project Name <u>567 Main Street Westbury, NY</u>		RUSH - Next Day	<input type="checkbox"/>		
Address: _____	Address: _____	Address: _____	Address: _____	Address: _____	Address: _____	YOUR PO#: _____		RUSH - Two Day	<input type="checkbox"/>		
Phone: _____	Phone: _____	Phone: _____	Phone: _____	Phone: _____	Phone: _____			RUSH - Three Day	<input type="checkbox"/>		
Contact: <u>Jim DeMarchis</u>	Contact: <u>Jim DeMarchis</u>	Contact: <u>Jim DeMarchis</u>	Contact: <u>Jim DeMarchis</u>	Contact: <u>Jim DeMarchis</u>	Contact: <u>Jim DeMarchis</u>			RUSH - Four Day	<input type="checkbox"/>		
E-mail: _____	E-mail: _____	E-mail: _____	E-mail: _____	E-mail: _____	E-mail: _____			Standard (5-7 Day)	<input checked="" type="checkbox"/>		
<p><u>James M DeMarchis</u> Samples Collected by: (print your name above and sign below) <u>James M DeMarchis</u></p>		<p><u>James M DeMarchis</u> Samples Collected by: (print your name above and sign below) <u>James M DeMarchis</u></p>		<p><u>Seaciff Environmental</u> Samples Collected by: (print your name above and sign below) <u>Seaciff Environmental</u></p>		<p><u>Seaciff Environmental</u> Samples Collected by: (print your name above and sign below) <u>Seaciff Environmental</u></p>		<p>YORK Reg. Comp. Regulation(s) to the following (please fill in) <u>460 factory detector limit for TCE</u> <u>≤ .25 ug/m³</u></p>			
Please enter the following REQUIRED Field Data											
Certified Canisters: Batch	Individual	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	Reporting Units: ug/m ³ X ppbv X ppmv	
		VP-1	3/11/21	AS	30	42	22078	6880	TO-15		
		JA-1	3/11/21	AI	30	4	18301	7362	TO-15		
		VP-2	3/11/21	AS	27	7	23995	5604	TO-15		
		JA-2	3/11/21	AI	30	4	16976	7084	TO-15		
		Outside	3/11/21	AO	29	5	37013	6874	TO-15		
<p>Comments: <u>Laboratory detection limit for TCE</u> <u>≤ .25 ug/m³ as per NYSDEC.</u></p>											
Samples Relinquished by / Company		Date/Time		Samples Relinquished by / Company		Date/Time		Detection Limits Required		Sampling Media	
<u>Westwood</u>		3/12/21 11:00 AM		<u>Westwood</u>		3/12/21 11:50 AM		≤ 1 ug/m ³ NYSDEC VI Limits		6 Liter Canister	
<u>J. DeMarchis / YORK</u>		3-12-21 / 1730		<u>J. DeMarchis / YORK</u>		3-12-21 / 2016		Routine Survey		Tedlar Bag	
<u>Felicit</u>		3-11-21 / 12:05		<u>Felicit</u>		3-11-21 / 12:05		Other		Date/Time	

Appendix B
Case Narrative



CASE NARRATIVE

York Project/SDG No.: 21C0634
Client: Seacliff Environmental Geology PC
Client Project ID: 567 Main Street Westbury, NY
Prepared for: Jim DeMartinis

Introduction

This Case Narrative applies only to the following samples submitted to our laboratory on **03/12/2021 15:00** as detailed on the chain-of-custody form.

The 5 sample(s) were received intact, unless otherwise noted.

Chain-of-custody was maintained from receipt through analysis in the laboratory.

Methodology

All preparation and analyses were conducted according to EPA Compendium Method TO-15 guidance.

Client Sample Information and Non-Conformances

<u>Laboratory ID</u>	<u>Sample Name</u>	<u>Matrix</u>
21C0634-01	VP-1	Air
21C0634-02	IA-1	Air
21C0634-03	VP-2	Air
21C0634-04	IA-2	Air
21C0634-05	Outside	Air

Any additional Client Sample Non-conformances are detailed in the proceeding Case Narrative Non-Conformance Summary tables.

No other problems were encountered during analysis.

QC Sample Non-Conformances

Any QC Sample Non-conformances (SCV, CCV, BS, MS, DUP) are detailed in the proceeding Case Narrative Non-Conformance Summary tables.

No other problems were encountered during analysis.

York Project/SDG no.: 21C0634 Statement

We certify that these data are in compliance with SOP requirements both technically and for completeness for other than the conditions stated above. Release of the data contained in the hard copy report and any electronic data deliverables has been authorized by the Laboratory Manager as verified by the signature on this laboratory report.

Approved by: Ben Gulizia

Seacliff Environmental Geology PC
49 Seacliff Avenue
Miller Place NY, 11764
Attention: Jim DeMartinis

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 March 12, 2021 and listed below. The project was identified as your project: **567 Main Street Westbury, NY.**

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.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
21C0634-01	VP-1	Soil Vapor	03/11/2021	03/12/2021
21C0634-02	IA-1	Indoor Ambient Air	03/11/2021	03/12/2021
21C0634-03	VP-2	Soil Vapor	03/11/2021	03/12/2021
21C0634-04	IA-2	Indoor Ambient Air	03/11/2021	03/12/2021
21C0634-05	Outside	Outdoor Ambient Air	03/11/2021	03/12/2021

for 3/12/21

General Notes for York Project (SDG) No.: 21C0634

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:



Benjamin Gulizia
Laboratory Director

Date: 03/19/2021



**Appendix C
Data Summary Form I's
With Qualifications**

Laboratory: York Analytical Laboratories, Inc. SDG: 21C0634
 Client: Seacliff Environmental Geology PC Project: 567 Main Street Westbury, NY
 Matrix: Soil Vapor Laboratory ID: 21C0634-01 File ID: TO213786.D
 Sampled: 03/11/21 00:00 Prepared: 03/18/21 10:00 Analyzed: 03/18/21 18:12
 Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL
 Batch: BC11111 Sequence: Y1C1843 Calibration: YC10005 Instrument: TO15_AIR2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m ³)	Q
630-20-6	1,1,1,2-Tetrachloroethane	4.57	3.1	U
71-55-6	1,1,1-Trichloroethane	4.57	4.2	D
79-34-5	1,1,2,2-Tetrachloroethane	4.57	3.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.57	3.5	U
79-00-5	1,1,2-Trichloroethane	4.57	2.5	U
75-34-3	1,1-Dichloroethane	4.57	1.8	U
75-35-4	1,1-Dichloroethylene	4.57	0.45	U
120-82-1	1,2,4-Trichlorobenzene	4.57	3.4	U
95-63-6	1,2,4-Trimethylbenzene	4.57	11	D
106-93-4	1,2-Dibromoethane	4.57	3.5	U
95-50-1	1,2-Dichlorobenzene	4.57	2.7	U
107-06-2	1,2-Dichloroethane	4.57	1.8	U
78-87-5	1,2-Dichloropropane	4.57	2.1	U
76-14-2	1,2-Dichlorotetrafluoroethane	4.57	3.2	U
108-67-8	1,3,5-Trimethylbenzene	4.57	3.1	D
106-99-0	1,3-Butadiene	4.57	3.0	U
541-73-1	1,3-Dichlorobenzene	4.57	2.7	U
142-28-9	1,3-Dichloropropane	4.57	2.1	U
106-46-7	1,4-Dichlorobenzene	4.57	2.7	U
123-91-1	1,4-Dioxane	4.57	3.3	U
78-93-3	2-Butanone	4.57	7.4	D
591-78-6	2-Hexanone	4.57	3.7	U
107-05-1	3-Chloropropene	4.57	7.2	U
108-10-1	4-Methyl-2-pentanone	4.57	1.9	U
67-64-1	Acetone	4.57	54	D
107-13-1	Acrylonitrile	4.57	0.99	U
71-43-2	Benzene	4.57	4.5	D
100-44-7	Benzyl chloride	4.57	2.4	U
75-27-4	Bromodichloromethane	4.57	3.1	U
75-25-2	Bromoform	4.57	4.7	U
74-83-9	Bromomethane	4.57	1.8	U
75-15-0	Carbon disulfide	4.57	1.4	U
56-23-5	Carbon tetrachloride	4.57	0.72	U
108-90-7	Chlorobenzene	4.57	2.1	U
75-00-3	Chloroethane	4.57	1.2	U
67-66-3	Chloroform	4.57	2.2	U
74-87-3	Chloromethane	4.57	0.94	U
156-59-2	cis-1,2-Dichloroethylene	4.57	1.3	D
10061-01-5	cis-1,3-Dichloropropylene	4.57	2.1	U
110-82-7	Cyclohexane	4.57	2.8	D

Laboratory: York Analytical Laboratories, Inc. SDG: 21C0634
 Client: Seacliff Environmental Geology PC Project: 567 Main Street Westbury, NY
 Matrix: Soil Vapor Laboratory ID: 21C0634-01 File ID: TQ213786.D
 Sampled: 03/11/21 00:00 Prepared: 03/18/21 10:00 Analyzed: 03/18/21 18:12
 Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL
 Batch: BC11111 Sequence: Y1C1843 Calibration: YC10005 Instrument: TO15 AIR2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m ³)	Q
124-48-1	Dibromochloromethane	4.57	3.9	U
75-71-8	Dichlorodifluoromethane	4.57	2.7	D
141-78-6	Ethyl acetate	4.57	3.3	U
100-41-4	Ethyl Benzene	4.57	29	D
87-68-3	Hexachlorobutadiene	4.57	4.9	U
67-63-0	Isopropanol	4.57	6.3	D
80-62-6	Methyl Methacrylate	4.57	1.9	U
1634-04-4	Methyl tert-butyl ether (MTBE)	4.57	1.6	U
75-09-2	Methylene chloride	4.57	30	D
142-82-5	n-Heptane	4.57	8.8	D
110-54-3	n-Hexane	4.57	8.1	D
95-47-6	o-Xylene	4.57	72	D
179601-23-1	p- & m- Xylenes	4.57	150	D
622-96-8	p-Ethyltoluene	4.57	13	D
115-07-1	Propylene	4.57	0.79	U
100-42-5	Styrene	4.57	1.9	U
127-18-4	Tetrachloroethylene	4.57	34	D
109-99-9	Tetrahydrofuran	4.57	2.7	U
108-88-3	Toluene	4.57	28	D
156-60-5	trans-1,2-Dichloroethylene	4.57	1.8	U
10061-02-6	trans-1,3-Dichloropropylene	4.57	2.1	U
79-01-6	Trichloroethylene	4.57	710	D
75-69-4	Trichlorofluoromethane (Freon 11)	4.57	5.9	D
108-05-4	Vinyl acetate	4.57	1.6	U
593-60-2	Vinyl bromide	4.57	2.0	U
75-01-4	Vinyl Chloride	4.57	0.58	U

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	201834	12.063	186919	12.075	
ISTD: 1,4-Difluorobenzene	1096228	13.635	1012611	13.641	
ISTD: d5-Chlorobenzene	989252	18.892	905424	18.895	

* Values outside of QC limits

Laboratory: York Analytical Laboratories, Inc. SDG: 21C0634
 Client: Seacliff Environmental Geology PC Project: 567 Main Street Westbury, NY
 Matrix: Indoor Ambient Air Laboratory ID: 21C0634-02 File ID: TQ213775.D
 Sampled: 03/11/21 00:00 Prepared: 03/17/21 11:00 Analyzed: 03/18/21 04:14
 Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL
 Batch: BC10894 Sequence: Y1C1841 Calibration: YC10005 Instrument: TO15 AIR2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m ³)	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.878	0.60	U
71-55-6	1,1,1-Trichloroethane	0.878	0.48	U
79-34-5	1,1,2,2-Tetrachloroethane	0.878	0.60	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.878	0.67	U
79-00-5	1,1,2-Trichloroethane	0.878	0.48	U
75-34-3	1,1-Dichloroethane	0.878	0.36	U
75-35-4	1,1-Dichloroethylene	0.878	0.087	U
120-82-1	1,2,4-Trichlorobenzene	0.878	0.65	U
95-63-6	1,2,4-Trimethylbenzene	0.878	1.7	D
106-93-4	1,2-Dibromoethane	0.878	0.67	U
95-50-1	1,2-Dichlorobenzene	0.878	0.53	U
107-06-2	1,2-Dichloroethane	0.878	0.36	U
78-87-5	1,2-Dichloropropane	0.878	0.41	U
76-14-2	1,2-Dichlorotetrafluoroethane	0.878	0.61	U
108-67-8	1,3,5-Trimethylbenzene	0.878	0.52	D
106-99-0	1,3-Butadiene	0.878	0.58	U
541-73-1	1,3-Dichlorobenzene	0.878	0.53	U
142-28-9	1,3-Dichloropropane	0.878	0.41	U
106-46-7	1,4-Dichlorobenzene	0.878	0.53	U
123-91-1	1,4-Dioxane	0.878	0.63	U
78-93-3	2-Butanone	0.878	1.4	D
591-78-6	2-Hexanone	0.878	0.72	U
107-05-1	3-Chloropropene	0.878	1.4	U
108-10-1	4-Methyl-2-pentanone	0.878	0.86	D
67-64-1	Acetone	0.878	10	D
107-13-1	Acrylonitrile	0.878	0.19	U
71-43-2	Benzene	0.878	0.98	D
100-44-7	Benzyl chloride	0.878	0.45	U
75-27-4	Bromodichloromethane	0.878	0.59	U
75-25-2	Bromoform	0.878	0.91	U
74-83-9	Bromomethane	0.878	0.34	U
75-15-0	Carbon disulfide	0.878	0.27	U
56-23-5	Carbon tetrachloride	0.878	0.44	D
108-90-7	Chlorobenzene	0.878	0.40	U
75-00-3	Chloroethane	0.878	0.23	U
67-66-3	Chloroform	0.878	0.43	U
74-87-3	Chloromethane	0.878	1.1	D
156-59-2	cis-1,2-Dichloroethylene	0.878	0.087	U
10061-01-5	cis-1,3-Dichloropropylene	0.878	0.40	U
110-82-7	Cyclohexane	0.878	0.70	D

Laboratory: York Analytical Laboratories, Inc. SDG: 21C0634
 Client: Seacliff Environmental Geology PC Project: 567 Main Street Westbury, NY
 Matrix: Indoor Ambient Air Laboratory ID: 21C0634-02 File ID: TQ213775.D
 Sampled: 03/11/21 00:00 Prepared: 03/17/21 11:00 Analyzed: 03/18/21 04:14
 Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL
 Batch: BC10894 Sequence: Y1C1841 Calibration: YC10005 Instrument: TO15 AIR2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m ³)	Q
124-48-1	Dibromochloromethane	0.878	0.75	U
75-71-8	Dichlorodifluoromethane	0.878	2.2	D
141-78-6	Ethyl acetate	0.878	0.79	D
100-41-4	Ethyl Benzene	0.878	1.7	D
87-68-3	Hexachlorobutadiene	0.878	0.94	U
67-63-0	Isopropanol	0.878	7.5	D
80-62-6	Methyl Methacrylate	0.878	0.50	D
1634-04-4	Methyl tert-butyl ether (MTBE)	0.878	0.32	U
75-09-2	Methylene chloride	0.878	5.1	D
142-82-5	n-Heptane	0.878	1.0	D
110-54-3	n-Hexane	0.878	1.4	D
95-47-6	o-Xylene	0.878	2.7	D
179601-23-1	p- & m- Xylenes	0.878	7.2	D
622-96-8	p-Ethyltoluene	0.878	1.5	D
115-07-1	Propylene	0.878	0.15	U
100-42-5	Styrene	0.878	0.37	U
127-18-4	Tetrachloroethylene	0.878	1.7	D
109-99-9	Tetrahydrofuran	0.878	0.52	U
108-88-3	Toluene	0.878	6.4	D
156-60-5	trans-1,2-Dichloroethylene	0.878	0.35	U
10061-02-6	trans-1,3-Dichloropropylene	0.878	0.40	U
79-01-6	Trichloroethylene	0.878	2.0	D
75-69-4	Trichlorofluoromethane (Freon 11)	0.878	1.2	D
108-05-4	Vinyl acetate	0.878	0.31	U
593-60-2	Vinyl bromide	0.878	0.38	U
75-01-4	Vinyl Chloride	0.878	0.11	U

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	196933	12.075	169263	12.078	
ISTD: 1,4-Difluorobenzene	1069835	13.641	931994	13.641	
ISTD: d5-Chlorobenzene	970785	18.892	852351	18.892	

* Values outside of QC limits

Laboratory: York Analytical Laboratories, Inc. SDG: 21C0634
 Client: Seacliff Environmental Geology PC Project: 567 Main Street Westbury, NY
 Matrix: Soil Vapor Laboratory ID: 21C0634-03 File ID: TQ213776.D
 Sampled: 03/11/21 00:00 Prepared: 03/17/21 11:00 Analyzed: 03/18/21 05:10
 Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL
 Batch: BC10894 Sequence: Y1C1841 Calibration: YC10005 Instrument: TO15 AIR2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m ³)	Q
630-20-6	1,1,1,2-Tetrachloroethane	16.6	11	U
71-55-6	1,1,1-Trichloroethane	16.6	19	D
79-34-5	1,1,2,2-Tetrachloroethane	16.6	11	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	16.6	13	U
79-00-5	1,1,2-Trichloroethane	16.6	9.0	U
75-34-3	1,1-Dichloroethane	16.6	6.7	U
75-35-4	1,1-Dichloroethylene	16.6	1.6	U
120-82-1	1,2,4-Trichlorobenzene	16.6	12	U
95-63-6	1,2,4-Trimethylbenzene	16.6	14	D
106-93-4	1,2-Dibromoethane	16.6	13	U
95-50-1	1,2-Dichlorobenzene	16.6	10	U
107-06-2	1,2-Dichloroethane	16.6	6.7	U
78-87-5	1,2-Dichloropropane	16.6	7.7	U
76-14-2	1,2-Dichlorotetrafluoroethane	16.6	12	U
108-67-8	1,3,5-Trimethylbenzene	16.6	8.2	U
106-99-0	1,3-Butadiene	16.6	11	U
541-73-1	1,3-Dichlorobenzene	16.6	10	U
142-28-9	1,3-Dichloropropane	16.6	7.7	U
106-46-7	1,4-Dichlorobenzene	16.6	10	U
123-91-1	1,4-Dioxane	16.6	12	U
78-93-3	2-Butanone	16.6	34	D
591-78-6	2-Hexanone	16.6	14	U
107-05-1	3-Chloropropene	16.6	26	U
108-10-1	4-Methyl-2-pentanone	16.6	6.8	U
67-64-1	Acetone	16.6	1100	D
107-13-1	Acrylonitrile	16.6	3.6	U
71-43-2	Benzene	16.6	7.4	D
100-44-7	Benzyl chloride	16.6	8.6	U
75-27-4	Bromodichloromethane	16.6	11	U
75-25-2	Bromoform	16.6	17	U
74-83-9	Bromomethane	16.6	6.4	U
75-15-0	Carbon disulfide	16.6	5.2	U
56-23-5	Carbon tetrachloride	16.6	2.6	U
108-90-7	Chlorobenzene	16.6	7.6	U
75-00-3	Chloroethane	16.6	4.4	U
67-66-3	Chloroform	16.6	8.1	U
74-87-3	Chloromethane	16.6	3.4	U
156-59-2	cis-1,2-Dichloroethylene	16.6	2.6	D
10061-01-5	cis-1,3-Dichloropropylene	16.6	7.5	U
110-82-7	Cyclohexane	16.6	5.7	D

Laboratory: York Analytical Laboratories, Inc. SDG: 21C0634
 Client: Seacliff Environmental Geology PC Project: 567 Main Street Westbury, NY
 Matrix: Soil Vapor Laboratory ID: 21C0634-03 File ID: TQ213776.D
 Sampled: 03/11/21 00:00 Prepared: 03/17/21 11:00 Analyzed: 03/18/21 05:10
 Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL
 Batch: BC10894 Sequence: Y1C1841 Calibration: YC10005 Instrument: TO15 AIR2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m ³)	Q
124-48-1	Dibromochloromethane	16.6	14	U
75-71-8	Dichlorodifluoromethane	16.6	8.2	U
141-78-6	Ethyl acetate	16.6	12	U
100-41-4	Ethyl Benzene	16.6	12	D
87-68-3	Hexachlorobutadiene	16.6	18	U
67-63-0	Isopropanol	16.6	14	D
80-62-6	Methyl Methacrylate	16.6	7.5	D
1634-04-4	Methyl tert-butyl ether (MTBE)	16.6	6.0	U
75-09-2	Methylene chloride	16.6	59	D
142-82-5	n-Heptane	16.6	12	D
110-54-3	n-Hexane	16.6	19	D
95-47-6	o-Xylene	16.6	17	D
179601-23-1	p- & m- Xylenes	16.6	45	D
622-96-8	p-Ethyltoluene	16.6	15	D
115-07-1	Propylene	16.6	9.4	D
100-42-5	Styrene	16.6	7.1	U
127-18-4	Tetrachloroethylene	16.6	360	D
109-99-9	Tetrahydrofuran	16.6	9.8	U
108-88-3	Toluene	16.6	46	D
156-60-5	trans-1,2-Dichloroethylene	16.6	6.6	U
10061-02-6	trans-1,3-Dichloropropylene	16.6	7.5	U
79-01-6	Trichloroethylene	16.6	1800	D
75-69-4	Trichlorofluoromethane (Freon 11)	16.6	10	D
108-05-4	Vinyl acetate	16.6	5.8	U
593-60-2	Vinyl bromide	16.6	7.3	U
75-01-4	Vinyl Chloride	16.6	2.1	U

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	186739	12.075	169263	12.078	
ISTD: 1,4-Difluorobenzene	1028663	13.644	931994	13.641	
ISTD: d5-Chlorobenzene	933588	18.892	852351	18.892	

* Values outside of QC limits

Laboratory: York Analytical Laboratories, Inc. SDG: 21C0634
 Client: Seacliff Environmental Geology PC Project: 567 Main Street Westbury, NY
 Matrix: Indoor Ambient Air Laboratory ID: 21C0634-04 File ID: TQ213777.D
 Sampled: 03/11/21 00:00 Prepared: 03/17/21 11:00 Analyzed: 03/18/21 06:20
 Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL
 Batch: BC10894 Sequence: Y1C1841 Calibration: YC10005 Instrument: TO15 AIR2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m ³)	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.917	0.63	U
71-55-6	1,1,1-Trichloroethane	0.917	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.917	0.63	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.917	0.70	U
79-00-5	1,1,2-Trichloroethane	0.917	0.50	U
75-34-3	1,1-Dichloroethane	0.917	0.37	U
75-35-4	1,1-Dichloroethylene	0.917	0.091	U
120-82-1	1,2,4-Trichlorobenzene	0.917	0.68	U
95-63-6	1,2,4-Trimethylbenzene	0.917	1.9	D
106-93-4	1,2-Dibromoethane	0.917	0.70	U
95-50-1	1,2-Dichlorobenzene	0.917	0.55	U
107-06-2	1,2-Dichloroethane	0.917	0.37	U
78-87-5	1,2-Dichloropropane	0.917	0.42	U
76-14-2	1,2-Dichlorotetrafluoroethane	0.917	0.64	U
108-67-8	1,3,5-Trimethylbenzene	0.917	0.54	D
106-99-0	1,3-Butadiene	0.917	0.61	U
541-73-1	1,3-Dichlorobenzene	0.917	0.55	U
142-28-9	1,3-Dichloropropane	0.917	0.42	U
106-46-7	1,4-Dichlorobenzene	0.917	0.55	U
123-91-1	1,4-Dioxane	0.917	0.66	U
78-93-3	2-Butanone	0.917	1.2	D
591-78-6	2-Hexanone	0.917	0.75	U
107-05-1	3-Chloropropene	0.917	1.4	U
108-10-1	4-Methyl-2-pentanone	0.917	0.38	U
67-64-1	Acetone	0.917	12	D
107-13-1	Acrylonitrile	0.917	0.20	U
71-43-2	Benzene	0.917	1.5	D
100-44-7	Benzyl chloride	0.917	0.47	U
75-27-4	Bromodichloromethane	0.917	0.61	U
75-25-2	Bromoform	0.917	0.95	U
74-83-9	Bromomethane	0.917	0.36	U
75-15-0	Carbon disulfide	0.917	0.29	U
56-23-5	Carbon tetrachloride	0.917	0.40	D
108-90-7	Chlorobenzene	0.917	0.42	U
75-00-3	Chloroethane	0.917	0.24	U
67-66-3	Chloroform	0.917	0.45	U
74-87-3	Chloromethane	0.917	1.2	D
156-59-2	cis-1,2-Dichloroethylene	0.917	0.091	U
10061-01-5	cis-1,3-Dichloropropylene	0.917	0.42	U
110-82-7	Cyclohexane	0.917	1.5	D

Laboratory: York Analytical Laboratories, Inc. SDG: 21C0634
 Client: Seacliff Environmental Geology PC Project: 567 Main Street Westbury, NY
 Matrix: Indoor Ambient Air Laboratory ID: 21C0634-04 File ID: TQ213777.D
 Sampled: 03/11/21 00:00 Prepared: 03/17/21 11:00 Analyzed: 03/18/21 06:20
 Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL
 Batch: BC10894 Sequence: Y1C1841 Calibration: YC10005 Instrument: TO15 AIR2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m ³)	Q
124-48-1	Dibromochloromethane	0.917	0.78	U
75-71-8	Dichlorodifluoromethane	0.917	2.3	D
141-78-6	Ethyl acetate	0.917	0.66	U
100-41-4	Ethyl Benzene	0.917	2.0	D
87-68-3	Hexachlorobutadiene	0.917	0.98	U
67-63-0	Isopropanol	0.917	5.2	D
80-62-6	Methyl Methacrylate	0.917	2.0	D
1634-04-4	Methyl tert-butyl ether (MTBE)	0.917	0.33	U
75-09-2	Methylene chloride	0.917	25	D
142-82-5	n-Heptane	0.917	1.9	D
110-54-3	n-Hexane	0.917	3.5	D
95-47-6	o-Xylene	0.917	3.4	D
179601-23-1	p- & m- Xylenes	0.917	9.0	D
622-96-8	p-Ethyltoluene	0.917	1.7	D
115-07-1	Propylene	0.917	0.16	U
100-42-5	Styrene	0.917	0.39	U
127-18-4	Tetrachloroethylene	0.917	1.5	D
109-99-9	Tetrahydrofuran	0.917	0.92	D
108-88-3	Toluene	0.917	5.9	D
156-60-5	trans-1,2-Dichloroethylene	0.917	0.55	D
10061-02-6	trans-1,3-Dichloropropylene	0.917	0.42	U
79-01-6	Trichloroethylene	0.917	1.4	D
75-69-4	Trichlorofluoromethane (Freon 11)	0.917	1.2	D
108-05-4	Vinyl acetate	0.917	0.32	U
593-60-2	Vinyl bromide	0.917	0.40	U
75-01-4	Vinyl Chloride	0.917	0.12	U

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	196857	12.072	169263	12.078	
ISTD: 1,4-Difluorobenzene	1067520	13.644	931994	13.641	
ISTD: d5-Chlorobenzene	972743	18.895	852351	18.892	

* Values outside of QC limits

RT 3/12/21

Laboratory: York Analytical Laboratories, Inc. SDG: 21C0634
 Client: Seacliff Environmental Geology PC Project: 567 Main Street Westbury, NY
 Matrix: Outdoor Ambient Air Laboratory ID: 21C0634-05 File ID: TQ213778.D
 Sampled: 03/11/21 00:00 Prepared: 03/17/21 11:00 Analyzed: 03/18/21 07:31
 Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL
 Batch: BC10894 Sequence: Y1C1841 Calibration: YC10005 Instrument: TO15 AIR2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m ³)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1.05	0.72	U
71-55-6	1,1,1-Trichloroethane	1.05	0.57	U
79-34-5	1,1,2,2-Tetrachloroethane	1.05	0.72	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.05	0.81	U
79-00-5	1,1,2-Trichloroethane	1.05	0.57	U
75-34-3	1,1-Dichloroethane	1.05	0.43	U
75-35-4	1,1-Dichloroethylene	1.05	0.10	U
120-82-1	1,2,4-Trichlorobenzene	1.05	0.78	U
95-63-6	1,2,4-Trimethylbenzene	1.05	3.3	D
106-93-4	1,2-Dibromoethane	1.05	0.81	U
95-50-1	1,2-Dichlorobenzene	1.05	0.63	U
107-06-2	1,2-Dichloroethane	1.05	0.43	U
78-87-5	1,2-Dichloropropane	1.05	0.49	U
76-14-2	1,2-Dichlorotetrafluoroethane	1.05	0.74	U
108-67-8	1,3,5-Trimethylbenzene	1.05	0.78	D
106-99-0	1,3-Butadiene	1.05	0.70	U
541-73-1	1,3-Dichlorobenzene	1.05	0.63	U
142-28-9	1,3-Dichloropropane	1.05	0.49	U
106-46-7	1,4-Dichlorobenzene	1.05	0.63	U
123-91-1	1,4-Dioxane	1.05	0.76	U
78-93-3	2-Butanone	1.05	3.0	D
591-78-6	2-Hexanone	1.05	0.86	U
107-05-1	3-Chloropropene	1.05	1.6	U
108-10-1	4-Methyl-2-pentanone	1.05	1.7	D
67-64-1	Acetone	1.05	18	D
107-13-1	Acrylonitrile	1.05	0.23	U
71-43-2	Benzene	1.05	1.0	D
100-44-7	Benzyl chloride	1.05	0.55	U
75-27-4	Bromodichloromethane	1.05	0.71	U
75-25-2	Bromoform	1.05	1.1	U
74-83-9	Bromomethane	1.05	0.41	U
75-15-0	Carbon disulfide	1.05	0.33	U
56-23-5	Carbon tetrachloride	1.05	0.40	D
108-90-7	Chlorobenzene	1.05	0.48	U
75-00-3	Chloroethane	1.05	0.28	U
67-66-3	Chloroform	1.05	0.51	U
74-87-3	Chloromethane	1.05	1.2	D
156-59-2	cis-1,2-Dichloroethylene	1.05	0.10	U
10061-01-5	cis-1,3-Dichloropropylene	1.05	0.48	U
110-82-7	Cyclohexane	1.05	0.69	D

Laboratory: York Analytical Laboratories, Inc. SDG: 21C0634
 Client: Seacliff Environmental Geology PC Project: 567 Main Street Westbury, NY
 Matrix: Outdoor Ambient Air Laboratory ID: 21C0634-05 File ID: TQ213778.D
 Sampled: 03/11/21 00:00 Prepared: 03/17/21 11:00 Analyzed: 03/18/21 07:31
 Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL
 Batch: BC10894 Sequence: Y1C1841 Calibration: YC10005 Instrument: TO15_AIR2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m ³)	Q
124-48-1	Dibromochloromethane	1.05	0.90	U
75-71-8	Dichlorodifluoromethane	1.05	2.2	D
141-78-6	Ethyl acetate	1.05	1.1	D
100-41-4	Ethyl Benzene	1.05	1.5	D
87-68-3	Hexachlorobutadiene	1.05	1.1	U
67-63-0	Isopropanol	1.05	36	D
80-62-6	Methyl Methacrylate	1.05	1.0	D
1634-04-4	Methyl tert-butyl ether (MTBE)	1.05	0.38	U
75-09-2	Methylene chloride	1.05	3.5	D
142-82-5	n-Heptane	1.05	0.95	D
110-54-3	n-Hexane	1.05	1.4	D
95-47-6	o-Xylene	1.05	2.4	D
179601-23-1	p- & m- Xylenes	1.05	5.8	D
622-96-8	p-Ethyltoluene	1.05	2.6	D
115-07-1	Propylene	1.05	0.18	U
100-42-5	Styrene	1.05	0.45	U
127-18-4	Tetrachloroethylene	1.05	2.7	D
109-99-9	Tetrahydrofuran	1.05	0.87	D
108-88-3	Toluene	1.05	6.3	D
156-60-5	trans-1,2-Dichloroethylene	1.05	0.42	U
10061-02-6	trans-1,3-Dichloropropylene	1.05	0.48	U
79-01-6	Trichloroethylene	1.05	0.14	U
75-69-4	Trichlorofluoromethane (Freon 11)	1.05	1.2	D
108-05-4	Vinyl acetate	1.05	0.37	U
593-60-2	Vinyl bromide	1.05	0.46	U
75-01-4	Vinyl Chloride	1.05	0.13	U

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	196054	12.072	169263	12.078	
ISTD: 1,4-Difluorobenzene	1070071	13.641	931994	13.641	
ISTD: d5-Chlorobenzene	964222	18.895	852351	18.892	

* Values outside of QC limits