

VOLATILE VAPOR INTRUSION (VVI) REPORT

**CENTRAL BOULEVARD ELEMENTARY
SCHOOL
60 CENTRAL BOULEVARD
BETHPAGE, NEW YORK 11714**

PREPARED FOR:

**BETHPAGE UNION FREE SCHOOL DISTRICT
10 CHERRY AVENUE
BETHPAGE, NEW YORK 11714**

**JCB PROJECT #: 21-48291
APRIL 2021**

**J.C. BRODERICK & ASSOCIATES, INC.
Environmental Consulting & Testing**

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Section No. 1.0: Introduction

J.C. Broderick and Associates (JCB) was retained by the Bethpage Union Free School District (Bethpage) to perform Volatile Vapor Intrusion (VVI) sampling due to information gathered from the “Proposed Remedial Action Plan” with regards to the “Northrop Grumman-Bethpage Facility Site Number 13003A, May 2012” prepared by Division of Environmental Remediation, New York State Department of Environmental Conservation (NYSDEC-DER). The sampling protocol was performed essentially in accordance with the requirements of the New York State Department of Health (NYSDOH) “Guidance for Evaluating Soil Vapor Intrusion in the State of New York”, Final Version, October 2006.

Section No. 2.0: Site Description and Location

The Subject Site is located at 60 Central Boulevard, Bethpage, New York 11714. The Subject Site is located at the western terminus of Central Boulevard. According to the United States Geological Survey (USGS) *Huntington, New York, 1979 7.5 Minute Series Topographical Map*, the Subject Site is situated at an approximate elevation of 98 feet (ft.) above mean sea level. The United States Geological Service (USGS) Water Table Map (2016) indicates the depth to groundwater is approximately 39 feet below the surface and is anticipated to flow southeast towards South Oyster Bay. The location of the Subject Site is shown on the Site Location Map, Appendix-A Figure-1.

Section No. 3.0: Volatile Vapor Intrusion (VVI) Evaluation

The design scope outlined in the Volatile Vapor Intrusion (VVI) Investigation Work Plan (IWP) dated July 2012 was followed during the volatile vapor intrusion evaluations. The following sections describe the procedures taken.

Section No. 3.1: Pre-Work Field Preparations

Prior to setup, a pre-sampling inspection was performed to evaluate the physical layout and conditions of the school building, to specifically determine the location of each sample, identify conditions that may affect or interfere with the proposed sampling and to prepare the building for sampling.

- To document conditions during indoor air sampling and ultimately to aid in the interpretation of the sampling results, the following actions were taken:
 - The storage of volatile chemicals was identified.
 - The use of heating or air conditioning systems during sampling was noted.
 - Floor plan sketches were drawn which include: the floor layout with sampling locations, chemical storage areas, garages, doorways, stairways, locations of basement sumps or subsurface drains and utility perforations through building foundations, HVAC system supply and return registers, compass orientation (north) and footings that create separate foundation sections. Photographs were taken to accompany the floor plan sketches.
 - Any pertinent observations, including readings from a Photo-Ionization Detector (PID) and other field instrumentation, were recorded.

Section No. 3.2: Subsurface Vapor Sample Collection

The following summarizes the manner in which subsurface vapor samples were collected. Please refer to Figure No. 2 - Subsurface, Crawlspace, Basement, 1st Floor and Ambient Sampling Locations for additional details.

- For the collection of the subsurface vapor samples, a probe was fabricated from $\frac{1}{2}$ -inch diameter, threaded brass pipe with a barbed tubing connection. The two (2) layers of 6-mil polyethylene sheeting were penetrated, and a one (1) inch diameter hole was drilled, utilizing a hammer drill, into the sand floor of the crawlspace extending approximately six (6) inches below the top of the sand. The pipe was lowered into the hole and sealed to the plastic sheeting with modeling clay containing no volatile organic compounds (VOCs). A five (5) gallon plastic container was placed on top of the plastic sheeting and above the vapor point. The container was sealed to the plastic sheeting utilizing modeling clay. A Teflon-lined, $\frac{1}{4}$ -inch I.D. disposable polyethylene tubing was then utilized to connect the barbed connection of the vapor point to a clean-certified, 6-liter SUMMA® canister, provided by York Analytical Labs, Inc. (York) through a flow controller pre-set for an eight (8) hour long sample duration. The tubing included a tee connection and valve to a purging vacuum pump calibrated for a flow rate of less than 0.2 liters per minute. The tubing, probe and subsurface soil was purged of at least one (1) liter of vapor prior to sample collection. Upon completion of the sampling, the polyethylene sheeting was replaced on the floor and secured in place with duct tape.
- Helium (He) was introduced into the atmosphere under the pail, as a tracer gas, to assure the viability of the vapor point seals with the atmosphere. The tracer gas was monitored in the purge air before sampling and outside of all seals before, during and after sampling, utilizing a Myron Helium Detector. In addition, Helium (He) was analyzed for in the SUMMA® canister and if detected at more than ten (10) percent, the sample would be considered invalid and retaken.
- On April 10, 2021, a total of two (2) subsurface vapor samples were collected.
 - One (1) subsurface sample was collected from beneath the north end of the crawlspace.
 - One (1) subsurface sample was collected from beneath the south end of the crawlspace.

Section No. 3.3: Indoor Air Sample Collection

The following summarizes the manner in which indoor air samples were collected:

- Sample flow rates conformed to the specifications in the sample collection method (less than 0.2 liters per minute) and were consistent with the hours of operation of the school building. Samples were taken from areas where personnel and occupants would not interfere with the sampling. The samples were collected, utilizing conventional sampling methods, in laboratory clean-certified, 6-liter SUMMA® canisters, provided by York equipped with a flow controller pre-set for an eight (8) hour long sample duration. As per the guidance requirements, the samples were collected at a height approximately three (3) feet above the floor to represent a height at which occupants are normally seated.

Section No. 3.3.1: Crawl Space Air Sample Collection

Please refer to Figure No. 2 - Subsurface, Crawlspace, 1st Floor and Ambient Sampling Locations for additional details.

- On April 10, 2021, a total of two (2) crawlspace air samples were collected.
 - One (1) air sample was collected from within the crawlspace along the north side of the school building.
 - One (1) air sample was collected from within the crawlspace along the south side of the school building.

Section No. 3.3.2: 1st Floor Air Sample Collection

Please refer to Figure No. 3 - 1st Floor and Ambient Sample Locations for additional details.

- On April 10, 2021, a total of two (2) 1st floor air samples were collected.
 - One (1) air sample was collected from within Room 112 located on the north side of the school building.
 - One (1) air sample was collected from the hallway located on the south side of the school building.

Section No. 3.4: Outdoor (Ambient) Air Sample Collection

An outdoor (ambient) air sample was collected simultaneously with subsurface and indoor air samples to evaluate the potential influence, if any, of outdoor air on indoor air quality. To obtain a representative sample which meets the data quality objectives, the outdoor air sample was collected in a manner consistent with that for indoor air samples. The sample was collected, utilizing conventional sampling methods, in a laboratory clean-certified, 6-liter SUMMA® canister, provided by York equipped with a flow controller pre-set for an eight (8) hour sample duration. As per the guidance requirements, the sample was collected at a height approximately three (3) feet above the floor. Please refer to Figure No. 3 - 1st Floor and Ambient Sample Locations for additional details.

- On April 10, 2021, one (1) outdoor (ambient) air sample was collected.
 - One (1) air sample was collected from outside the west side of the school building adjacent to the kitchen/cafeteria.

Section No. 4.0: Laboratory Analytical Summary

The air samples were collected into laboratory supplied, clean-certified, 6-liter SUMMA® canisters, and assigned individual identification numbers. Chain of custody documents were prepared, and the samples were then delivered to an independent New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory for analysis.

York Environmental Laboratories, Inc. provided laboratory analytical services. Copies of York's NYSDOH certifications are available upon request.

Air samples submitted for laboratory analysis were analyzed for Volatile Organic Compounds (VOCs) utilizing the Environmental Protection Agency Toxic Organics 15 (EPA TO-15) list. Subsurface soil vapor samples were also analyzed for Helium.

The laboratory analysis results for the air samples collected were reviewed and compared to the 90th percentile as listed in Table C2 EPA 2001: Building assessment and survey evaluation (BASE) database, SUMMA canister method found in NYSDOH's "Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006.

The table on the following page summarizes the Air Sample Analytical Results of Detected Compounds:

Table No. 1:
Volatile Vapor Intrusion Analytical Results of Detected Compounds via EPA Method TO-15

Sample ID		EPA 2001 BASE 90th percentile	NORTH SUBSURFACE 21D0498-01 4/10/2021 Soil Vapor		NORTH CRAWL SPACE 21D0498-02 4/10/2021 Indoor Ambient Air		ROOM 112 21D0498-03 4/10/2021 Indoor Ambient Air		SOUTH SUBSURFACE 21D0498-04 4/10/2021 Soil Vapor		SOUTH CRAWL SPACE 21D0498-05 4/10/2021 Indoor Ambient Air		SOUTH 1st FL HALLWAY 21D0498-06 4/10/2021 Indoor Ambient Air		AMBIENT 21D0498-07 4/10/2021 Outdoor Ambient Air	
Compound	CAS Number		Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Helium			%						%							
Dilution Factor			1.69						1.9							
Volatile Organics, EPA TO15 Full List		ug/m3	ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3	
Dilution Factor			16.94		0.903		0.871		7.62		0.886		0.851		1.01	
1,2,4-Trimethylbenzene	95-63-6	9.5	12.0	D	0.440	J	0.430	U	3.70	J	0.440	U	0.420	U	0.490	U
1,3,5-Trimethylbenzene	108-67-8	3.7	4.00	D	0.440	U	0.430	U	3.70	U	0.440	U	0.420	U	0.490	U
1,4-Dioxane	123-91-1	~	14.0	D	0.650	U	0.630	U	5.50	U	0.640	U	0.610	U	0.720	U
2-Butanone	78-93-3	12	14.0	D	0.800	D	0.490	D	15.0	D	0.990	D	0.800	D	0.440	D
4-Methyl-2-pentanone	108-10-1	6	7.10	D	0.370	U	0.360	U	8.70	D	0.360	U	0.350	U	0.410	U
Acetone	67-64-1	98.9	470	D	8.80	D	4.20	D	450	D	11.0	D	5.00	D	2.90	D
Benzene	71-43-2	9.4	2.10	D	0.430	D	0.310	D	2.90	D	0.370	D	0.330	D	0.320	U
Carbon disulfide	75-15-0	4.2	6.60	D	0.280	U	0.270	U	12.0	D	0.280	U	0.270	U	0.310	U
Carbon tetrachloride	56-23-5	1.3	0.640	D	0.510	D	0.490	D	1.20	U	0.450	D	0.480	D	0.510	D
Chloromethane	74-87-3	3.7	0.700	D	1.90	D	1.90	D	1.60	U	1.70	D	1.80	D	1.80	D
Cyclohexane	110-82-7	~	1.30	D	0.310	U	0.300	U	2.60	U	0.300	U	0.290	U	0.350	U
Dichlorodifluoromethane	75-71-8	16.5	2.80	D	2.30	D	2.50	D	3.80	U	2.40	D	2.50	D	2.60	D
Ethyl acetate	141-78-6	5.4	62.0	D	0.650	J	0.630	U	78.0	D	0.640	J	0.610	J	0.720	U
Ethyl Benzene	100-41-4	5.7	8.80	D	0.390	U	0.380	U	5.00	D	0.380	U	0.370	U	0.440	U
Isopropanol	67-63-0	250	12.0	D	16.0	D	2.90	D	30.0	D	9.60	D	2.10	D	0.890	D
Methyl Methacrylate	80-62-6	~	6.90	D	0.520	D	1.30	D	3.10	U	0.360	J	1.10	D	0.780	D
Methylene chloride	75-09-2	10	3.30	D	7.30	D	5.50	D	11.0	D	1.40	D	5.50	D	3.50	D
n-Heptane	142-82-5	~	3.30	D	0.370	J	0.360	J	3.70	D	0.540	D	0.350	U	0.410	U
n-Hexane	110-54-3	10.2	8.20	D	0.510	D	0.490	D	9.70	D	0.590	D	0.480	D	0.460	D
o-Xylene	95-47-6	7.9	5.40	D	0.390	J	0.380	J	7.30	D	0.380	J	0.370	J	0.440	J
p- & m- Xylenes	179601-23-1	~	11.0	D	0.780	D	0.760	U	12.0	D	0.770	J	0.740	U	0.870	J
p-Ethyltoluene	622-96-8	3.6	11.0	D	0.440	U	0.430	U	9.00	D	0.440	U	0.420	U	0.490	U
Tetrachloroethylene	127-18-4	15.9	2.50	D	0.610	J	0.590	U	5.20	U	0.600	U	0.580	J	1.40	D
Toluene	108-88-3	43	500	D	2.00	D	0.790	D	370	D	1.70	D	1.70	D	1.00	D
Trichloroethylene	79-01-6	4.2	0.460	U	0.120	U	0.120	U	1.00	U	0.120	U	0.110	U	0.220	D
Trichlorofluoromethane (Freon 11)	75-69-4	~	1.90	J	1.40	D	1.30	D	4.30	U	1.40	D	1.30	D	1.40	D

NOTES:

Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:

D = result is from an analysis that required a dilution

J = analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U = analyte not detected at or above the level indicated

~ = this indicates that no regulatory limit has been established for this analyte

The results of the air sampling indicated detected concentrations of several VOCs in the subsurface soil vapor below the plastic barrier; however, none of the crawl space sample locations or 1st floor sample locations indicated detected concentrations of VOCs above the EPA BASE 90th Percentile.

The laboratory analysis results for the air samples collected were also reviewed and compared to the Air Guidance Values Derived by the NYSDOH as listed in Table 3.1 in NYSDOH's "Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006 and all available updates. The results indicated no detection of the listed compounds above the NYSDOH Air Guidance Values (Table 3.1).

Section No. 5.0: Decision Matrices

Decision matrices are risk management tools developed by the NYSDOH to provide guidance on a case-by-case basis about actions that should be taken to address current and potential exposures related to soil vapor intrusion. The matrices are intended to be used when evaluating the results from buildings with full slab foundations. Due to the presence of exposed sand within the crawlspace (no concrete or plastic covering), the crawlspace sample locations were considered "sub-slab" samples for the purpose of the decision matrices for this investigation.

The NYSDOH has currently developed three (3) matrices to use as tools in making decisions when soil vapor may be entering buildings. JCB implemented the matrices, and the following table summarizes the results:

Table No. 2: Volatile Chemicals Utilized in NYSDOH Decision Matrices		
Compound	Soil Vapor/Indoor Air Decision Matrix	Result
1,1,1-Trichloroethane (TCA)	Matrix B	No Further Action
1,1-Dichloroethylene	Matrix A	No Further Action
Carbon Tetrachloride	Matrix A	No Further Action
cis 1,2-Dichloroethylene	Matrix A	No Further Action
Methylene Chloride	Matrix B	No Further Action
Tetrachloroethylene (PCE)	Matrix B	No Further Action
Trichloroethylene (TCE)	Matrix A	No Further Action
Vinyl Chloride	Matrix C	No Further Action

Notes:
A total of eight (8) chemicals have been assigned to decision matrices by the NYSDOH, May 2017.

The results of the matrices indicate that "No Further Action" is required for all eight (8) volatile organic chemicals utilized in the NYSDOH Decision Matrices.

The concentrations detected in the indoor air samples are likely due to the daily operations within the building or outdoor sources rather than soil vapor intrusion given the concentrations detected in the subsurface vapor samples.

Section No. 6.0: Quality Assurance and Quality Control (QA/QC) Procedures

- In order to prevent cross-contamination between sampling locations, all re-usable sampling equipment which came into contact with sample materials was decontaminated prior to each use. Equipment used for sample collection was wiped clean, washed in a solution of Alconox and thoroughly rinsed with potable water. New and dedicated polyethylene tubing was used for collection of each subsurface sample. All sampling personnel wore disposable latex, nylon, or nitrile gloves during sampling events. At a minimum, gloves were changed between locations and before each laboratory sample was collected.
- The field sampling team maintained sampling log sheets summarizing the following:
 - Sample identification;
 - Canister ID Number;
 - Regulator ID Number;
 - Date and time of sample collection;
 - Sampling height;
 - Sampling methods and devices;
 - The volume of air sampled;
 - The vacuum of canisters before and after sample collection;
 - Chain of custody protocols and records used to track samples from sampling point to analysis.
- Subsequent to sample collection, the Summa® canister was labeled with the sampling location, time, and samplers initials.

Section No. 7.0: Findings

Based upon the review of the VVI sampling laboratory analysis results, all detectable concentrations observed were reported well below published occupational health guidelines. In addition, all detectable concentrations observed within the occupied spaces of the school building were below their background values reported in the EPA 2001: Building assessment and survey evaluation (BASE) database, SUMMA canister method 90th Percentile found in NYSDOH's "Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006. The concentrations detected in the indoor air samples are likely due to the daily operations within the building or outdoor sources rather than soil vapor intrusion when compared against the concentrations detected in the subsurface soil vapor samples.

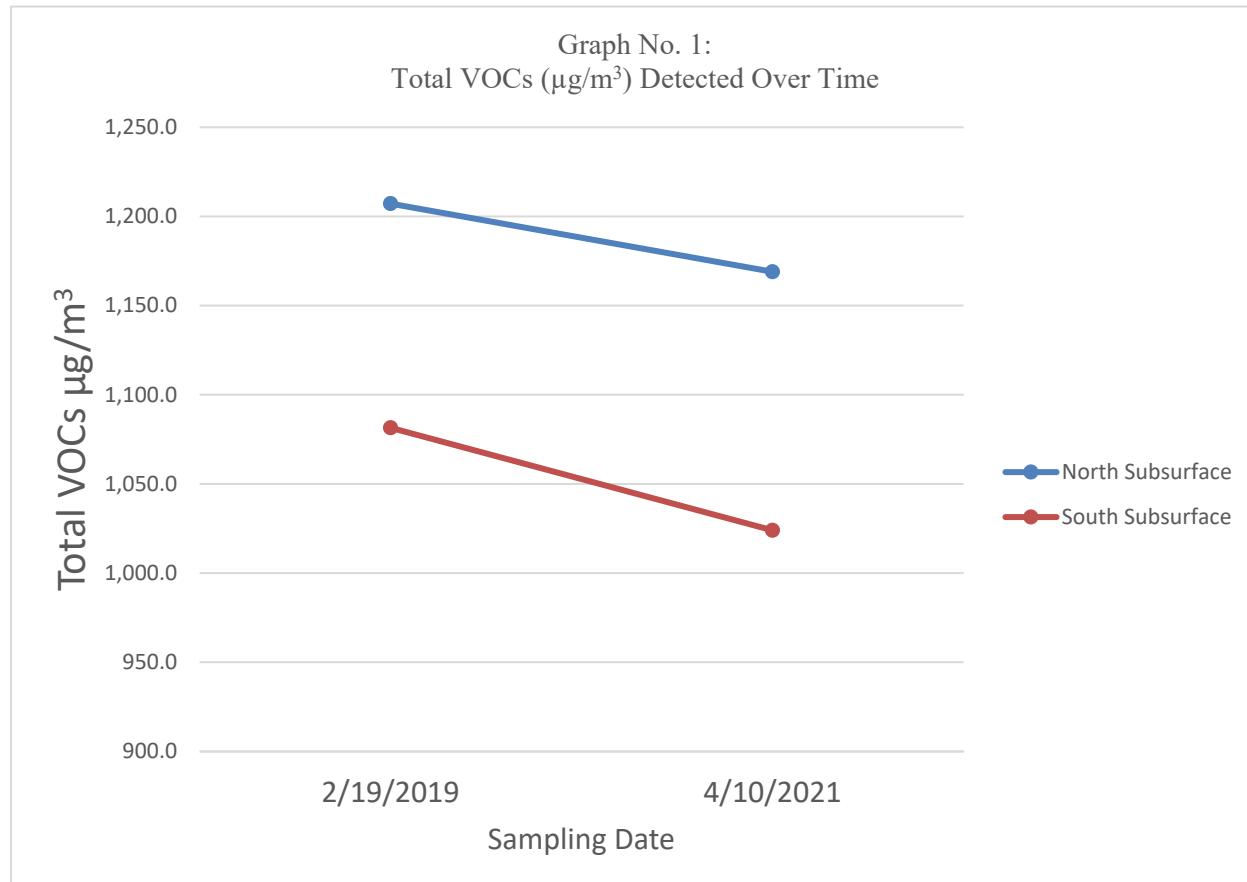
- Based upon these findings, no hazardous condition or immediate health concern was identified associated with VVI.

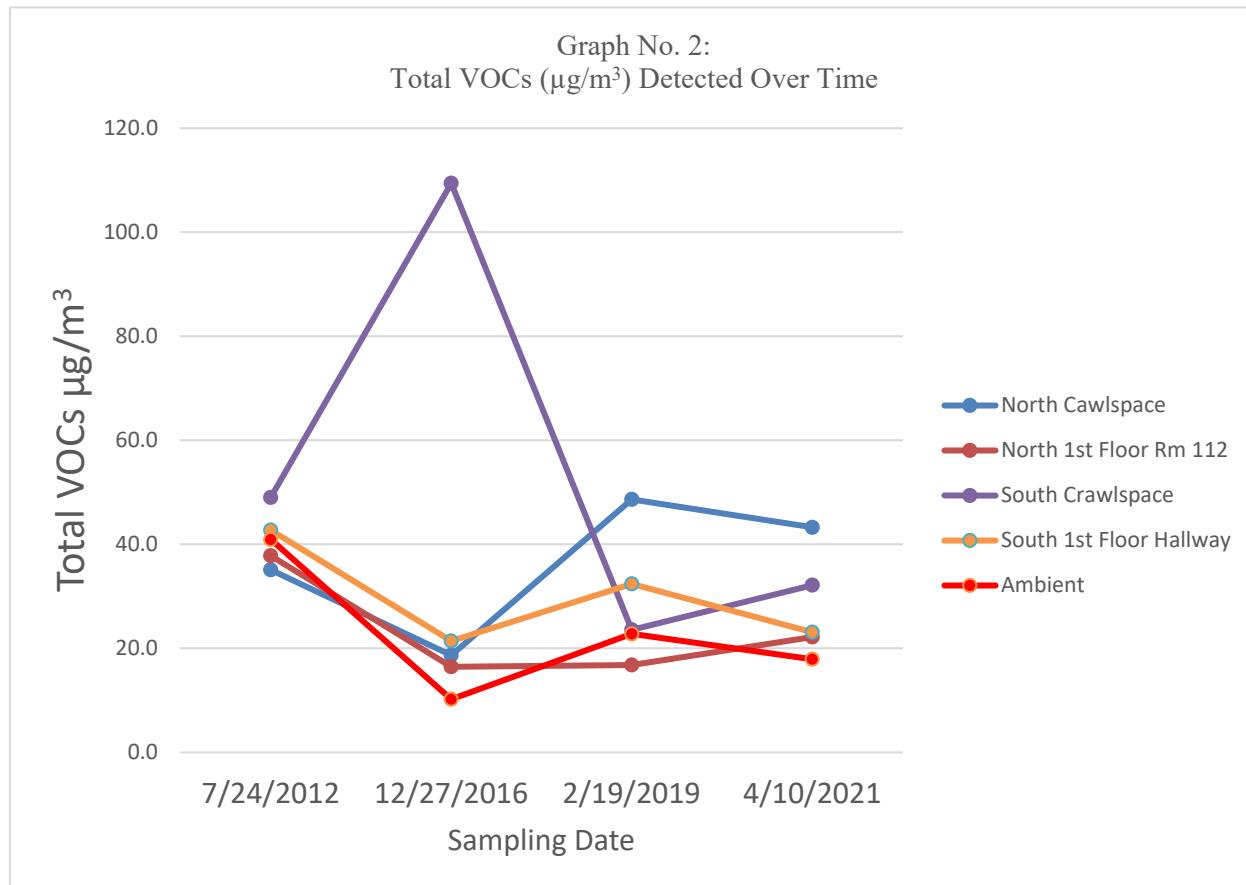
Section No. 7.1: Previous Analytical Results Trend Analysis

JCB has been performing the same volatile vapor intrusion sampling in 2012, 2016, and on a biennial schedule since 2019. The 2021 analytical results for total VOCs were compared to previous year's results and are presented in Table No. 3.

Table No. 3: Total VOCs ($\mu\text{g}/\text{m}^3$) Detected Over Time				
Location	Year			
	2012	2016	2019	2021
North Subsurface	NT	NT	1,207	1,169
North Crawl Space	35.1	18.7	48.6	43.2
North 1 st Floor Rm 112	37.8	16.5	16.8	22.2
South Subsurface	NT	NT	1,081	1,024
South Crawl Space	49.0	109	23.6	32.1
South 1 st Floor Hallway	42.7	21.4	32.4	23.1
Ambient	40.9	10.2	22.8	17.9

In general, the concentration of total VOCs in the subsurface samples have remained essentially the same as indicated in Graph No. 1. Subsurface sampling began in 2019 after the installation of the crawl space vapor barrier. The occupied interior spaces indicated no significant changes in the detected total VOC concentration since 2012 as indicated in Graph No. 2 below.





Section No. 8.0: Conclusions

A careful evaluation of the indoor air sampling results compared to the sub-slab and ambient results did reveal the presence of a discernible pattern suggesting that the building could be impacted with VVI. It appears that the plastic barrier installed in the crawlspace of the building, although not its intended purpose has been relatively effective in preventing the subsurface volatile vapors from migrating into the crawlspace and occupied portions of the school building.

The increase in total organic volatile vapors observed within the interior spaces during this sampling event is likely attributed to both the increased frequency of cleaning and disinfecting of the spaces from the COVID-19 pandemic.

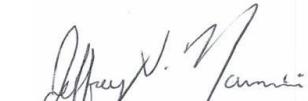
Section No. 9.0: Recommendations

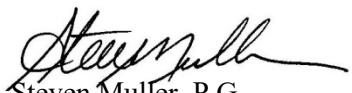
It is recommended that periodic VVI sampling be performed to monitor site conditions. It is also recommended that periodic inspection of the plastic barrier be performed and that any rips or tears to the barrier be repaired.

Section No. 10.0: Certification

I certify that this Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the New York State Department of Health (NYSDOH) "Guidance for Evaluating Soil Vapor Intrusion in the State of New York", Final Version, October 2006 and that all activities were performed in full accordance with the work plan.

Sincerely,
J.C. Broderick & Associates, Inc.


Jeffrey V. Nannini
Environmental Scientist


Steven Muller, P.G.
Project Manager

Appendix A

Figures



J.C. BRODERICK

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Notes:

Central Boulevard School
60 Central Boulevard
Bethpage, NY 11714

Drawing Title

Figure No. 1

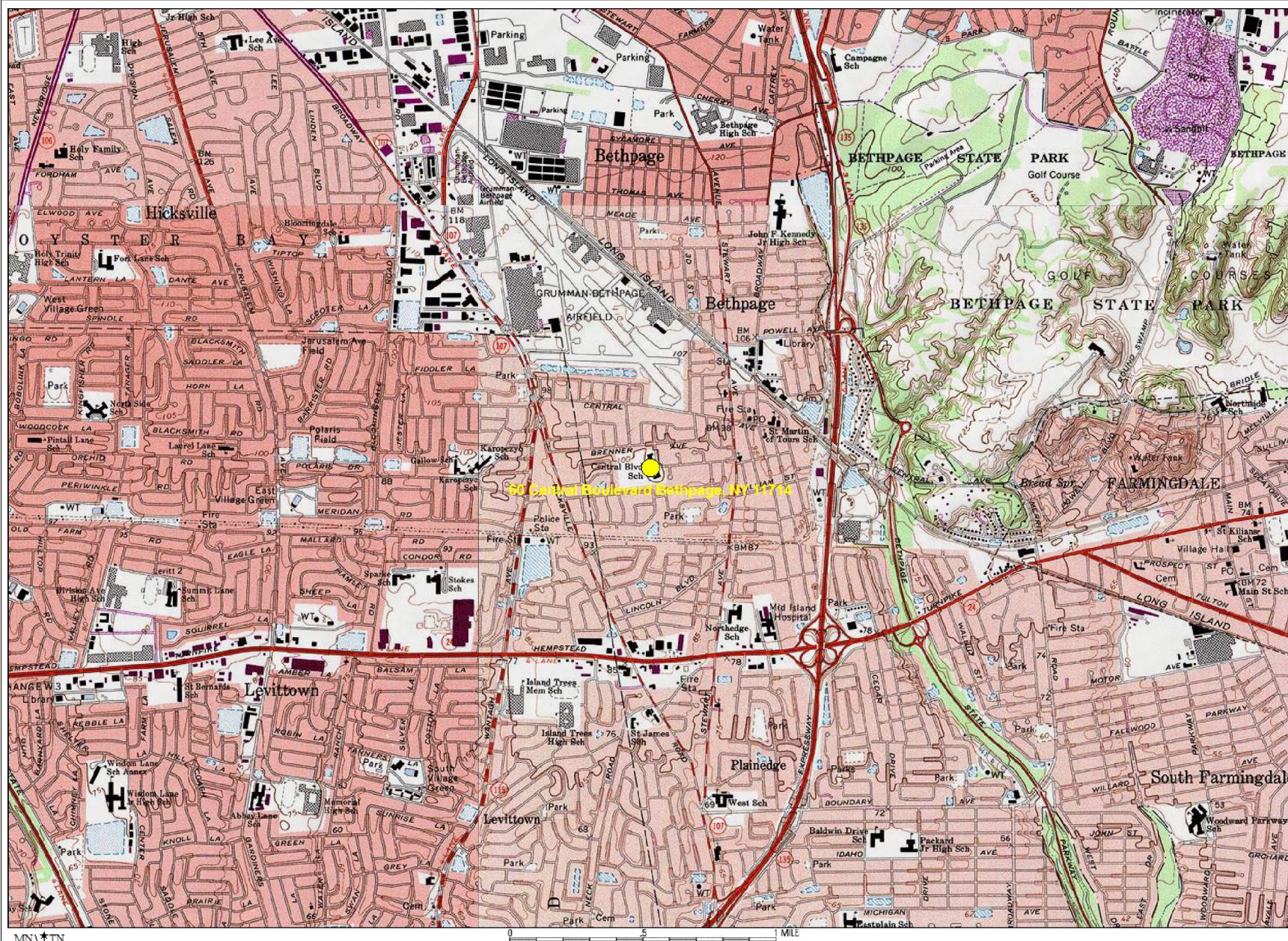
Site Location Map

Scale Project No. Date
As Noted 21-48291 04-10-21

Drawn By Checked By Page No.
J.V.N. S.W.M. 1 of 2

Drawing No.

1



Map created with TOPO!® ©2003 National Geographic (www.nationalgeographic.com/topo)

JCB LEGEND

SUBJECT SITE



J.C. BRODERICK

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Notes:

Central Boulevard School
60 Central Boulevard
Bethpage, NY 11714

Drawing Title
Figure No. 2

Subsurface,
Crawlspace,
Basement,
1st Floor
and Ambient
Sampling
Locations

Scale Project No. Date
N.T.S. 21-48291 04-10-21

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J.V.N. S.W.M. 2 of 2

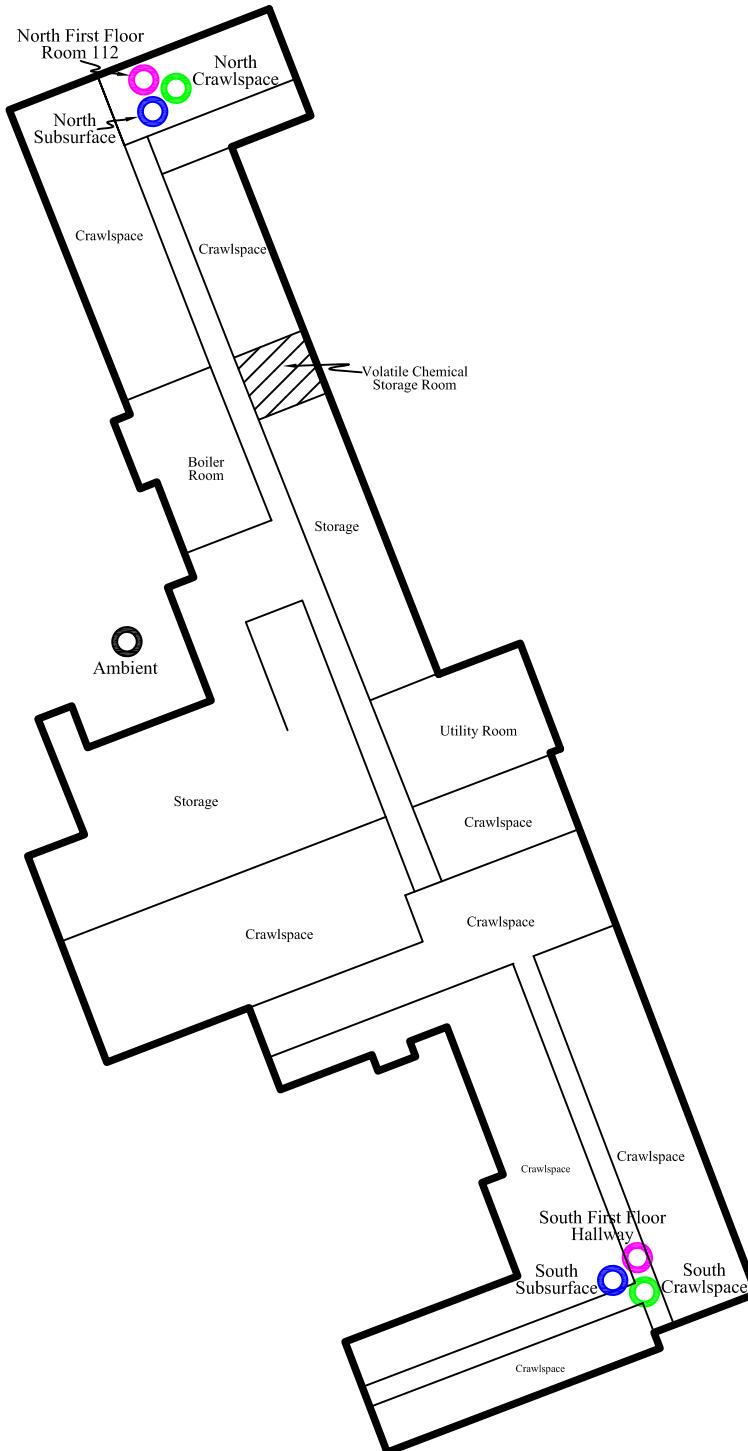
Drawing No.

2



JCB LEGEND

- SUBSURFACE SAMPLING LOCATION
- CRAWLSPACE SAMPLING LOCATION
- AMBIENT SAMPLING LOCATION
- 1ST FLOOR SAMPLING LOCATION



Appendix B

Field Photograph Logs

North Crawlspace & North Subsurface Sampling Locations



Field Photograph Log

Volatile Vapor Intrusion Report

Central Boulevard Elementary School
60 Central Boulevard
Bethpage, NY 11714



Photo No. 01

JCB#: 21-48291

North First Floor Room 112 Sampling Location



Field Photograph Log

Volatile Vapor Intrusion Report

Central Boulevard Elementary School
60 Central Boulevard
Bethpage, NY 11714



Photo No. 02

JCB#: 21-48291

South Subsurface & South Crawlspace Sampling Locations



Field Photograph Log

Volatile Vapor Intrusion Report

**Central Boulevard Elementary School
60 Central Boulevard
Bethpage, NY 11714**



Photo No. 03

JCB#: 21-48291

South First Floor Hallway Sampling Location



Field Photograph Log

Volatile Vapor Intrusion Report

**Central Boulevard Elementary School
60 Central Boulevard
Bethpage, NY 11714**



Photo No. 04

JCB#: 21-48291

Ambient Sampling Location



Field Photograph Log

Volatile Vapor Intrusion Report

Central Boulevard Elementary School
60 Central Boulevard
Bethpage, NY 11714



Photo No. 05

JCB#: 21-48291

Appendix C

Laboratory Analysis Report



Technical Report

prepared for:

J.C. Broderick
1775 North Express Drive
Hauppauge NY, 11788
Attention: Steven Muller

Report Date: 04/19/2021

Client Project ID: 21-48291 Central Blvd ES
York Project (SDG) No.: 21D0498

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

Report Date: 04/19/2021
Client Project ID: 21-48291 Central Blvd ES
York Project (SDG) No.: 21D0498

J.C. Broderick
1775 North Express Drive
Hauppauge NY, 11788
Attention: Steven Muller

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 April 12, 2021 with a temperature of C. The project was identified as your project: **21-48291 Central Blvd ES**.

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

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

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

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

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

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
21D0498-01	NORTH SUBSURFACE	Soil Vapor	04/10/2021	04/12/2021
21D0498-02	NORTH CRAWL SPACE	Indoor Ambient Air	04/10/2021	04/12/2021
21D0498-03	ROOM 112	Indoor Ambient Air	04/10/2021	04/12/2021
21D0498-04	SOUTH SUBSURFACE	Soil Vapor	04/10/2021	04/12/2021
21D0498-05	SOUTH CRAWL SPACE	Indoor Ambient Air	04/10/2021	04/12/2021
21D0498-06	SOUTH FIRST FLOOR HALLWAY	Indoor Ambient Air	04/10/2021	04/12/2021
21D0498-07	AMBIENT	Outdoor Ambient Ai	04/10/2021	04/12/2021

General Notes for York Project (SDG) No.: 21D0498

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

Approved By:



Date: 04/19/2021

Benjamin Gulizia
Laboratory Director





Sample Information

Client Sample ID: NORTH SUBSURFACE

York Sample ID: 21D0498-01

York Project (SDG) No.
21D0498

Client Project ID
21-48291 Central Blvd ES

Matrix
Soil Vapor

Collection Date/Time
April 10, 2021 3:00 pm

Date Received
04/12/2021

Volatile Organics, EPA TO15 Full List

Sample Prepared by Method: EPA TO15 PREP

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	2.3	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	1.8	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
NELAC-NY12058,NJDEP-Queens										
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	2.3	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
NELAC-NY12058,NJDEP-Queens										
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	2.6	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
NELAC-NY12058,NJDEP-Queens										
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	1.8	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
NELAC-NY12058,NJDEP-Queens										
75-34-3	1,1-Dichloroethane	ND		ug/m³	1.4	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
NELAC-NY12058,NJDEP-Queens										
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.34	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
NELAC-NY12058,NJDEP-Queens										
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	2.5	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
NELAC-NY12058,NJDEP-Queens										
95-63-6	1,2,4-Trimethylbenzene	12		ug/m³	1.7	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
NELAC-NY12058,NJDEP-Queens										
106-93-4	1,2-Dibromoethane	ND		ug/m³	2.6	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
NELAC-NY12058,NJDEP-Queens										
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	2.0	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
NELAC-NY12058,NJDEP-Queens										
107-06-2	1,2-Dichloroethane	ND		ug/m³	1.4	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
NELAC-NY12058,NJDEP-Queens										
78-87-5	1,2-Dichloropropane	ND		ug/m³	1.6	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
NELAC-NY12058,NJDEP-Queens										
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	2.4	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
NELAC-NY12058,NJDEP-Queens										
108-67-8	1,3,5-Trimethylbenzene	4.0		ug/m³	1.7	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
NELAC-NY12058,NJDEP-Queens										
106-99-0	1,3-Butadiene	ND		ug/m³	2.2	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
NELAC-NY12058,NJDEP-Queens										
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	2.0	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
NELAC-NY12058,NJDEP-Queens										
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	1.6	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
NELAC-NY12058,NJDEP-Queens										
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	2.0	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
NELAC-NY12058,NJDEP-Queens										
123-91-1	1,4-Dioxane	14		ug/m³	2.4	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
NELAC-NY12058,NJDEP-Queens										
78-93-3	2-Butanone	14		ug/m³	1.0	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
NELAC-NY12058,NJDEP-Queens										



Sample Information

Client Sample ID: NORTH SUBSURFACE

York Sample ID:

21D0498-01

York Project (SDG) No.

21D0498

Client Project ID

21-48291 Central Blvd ES

Matrix

Soil Vapor

Collection Date/Time

April 10, 2021 3:00 pm

Date Received

04/12/2021

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
591-78-6	* 2-Hexanone	ND		ug/m³	2.8	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
107-05-1	3-Chloropropene	ND		ug/m³	5.3	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
108-10-1	4-Methyl-2-pentanone	7.1		ug/m³	1.4	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
67-64-1	Acetone	470		ug/m³	8.0	16.94	EPA TO-15 Certifications:	04/16/2021 13:37	04/16/2021 20:51	LJ
107-13-1	Acrylonitrile	ND		ug/m³	0.74	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
71-43-2	Benzene	2.1		ug/m³	1.1	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
100-44-7	Benzyl chloride	ND		ug/m³	1.8	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
75-27-4	Bromodichloromethane	ND		ug/m³	2.3	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
75-25-2	Bromoform	ND		ug/m³	3.5	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
74-83-9	Bromomethane	ND		ug/m³	1.3	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
75-15-0	Carbon disulfide	6.6		ug/m³	1.1	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
56-23-5	Carbon tetrachloride	0.64		ug/m³	0.53	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
108-90-7	Chlorobenzene	ND		ug/m³	1.6	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
75-00-3	Chloroethane	ND		ug/m³	0.89	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
67-66-3	Chloroform	ND		ug/m³	1.7	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
74-87-3	Chloromethane	0.70		ug/m³	0.70	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.34	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	1.5	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
110-82-7	Cyclohexane	1.3		ug/m³	1.2	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
124-48-1	Dibromochloromethane	ND		ug/m³	2.9	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
75-71-8	Dichlorodifluoromethane	2.8		ug/m³	1.7	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
141-78-6	* Ethyl acetate	62		ug/m³	2.4	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ



Sample Information

Client Sample ID: NORTH SUBSURFACE	York Sample ID: 21D0498-01			
<u>York Project (SDG) No.</u> 21D0498	<u>Client Project ID</u> 21-48291 Central Blvd ES	<u>Matrix</u> Soil Vapor	<u>Collection Date/Time</u> April 10, 2021 3:00 pm	<u>Date Received</u> 04/12/2021

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
100-41-4	Ethyl Benzene	8.8		ug/m³	1.5	3.388	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 05:53	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/m³	3.6	3.388	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 05:53	LLJ
67-63-0	Isopropanol	12		ug/m³	1.7	3.388	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 05:53	LLJ
80-62-6	Methyl Methacrylate	6.9		ug/m³	1.4	3.388	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 05:53	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	1.2	3.388	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 05:53	LLJ
75-09-2	Methylene chloride	3.3		ug/m³	2.4	3.388	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 05:53	LLJ
142-82-5	n-Heptane	3.3		ug/m³	1.4	3.388	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 05:53	LLJ
110-54-3	n-Hexane	8.2		ug/m³	1.2	3.388	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 05:53	LLJ
95-47-6	o-Xylene	5.4		ug/m³	1.5	3.388	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 05:53	LLJ
179601-23-1	p- & m- Xylenes	11		ug/m³	2.9	3.388	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 05:53	LLJ
622-96-8	* p-Ethyltoluene	11		ug/m³	1.7	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
115-07-1	* Propylene	ND		ug/m³	0.58	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
100-42-5	Styrene	ND		ug/m³	1.4	3.388	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 05:53	LLJ
127-18-4	Tetrachloroethylene	2.5		ug/m³	2.3	3.388	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 05:53	LLJ
109-99-9	* Tetrahydrofuran	ND		ug/m³	2.0	3.388	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 05:53	LLJ
108-88-3	Toluene	500		ug/m³	1.3	3.388	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 05:53	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	1.3	3.388	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 05:53	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	1.5	3.388	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 05:53	LLJ
79-01-6	Trichloroethylene	ND		ug/m³	0.46	3.388	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 05:53	LLJ
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	1.9	3.388	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 05:53	LLJ
108-05-4	Vinyl acetate	ND		ug/m³	1.2	3.388	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 05:53	LLJ
593-60-2	Vinyl bromide	ND		ug/m³	1.5	3.388	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 05:53	LLJ



Sample Information

Client Sample ID: NORTH SUBSURFACE

York Sample ID: 21D0498-01

York Project (SDG) No.
21D0498

Client Project ID
21-48291 Central Blvd ES

Matrix
Soil Vapor

Collection Date/Time
April 10, 2021 3:00 pm

Date Received
04/12/2021

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
75-01-4	Vinyl Chloride	ND		ug/m³	0.43	3.388	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 05:53	LLJ

Helium

Log-in Notes:

Sample Notes:

Sample Prepared by Method: PREP for GASES by GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-59-7	* Helium	ND		%	0.84	1.69	GC/TCD Certifications:	04/19/2021 06:22	04/19/2021 16:43	TMP

Sample Information

Client Sample ID: NORTH CRAWL SPACE

York Sample ID: 21D0498-02

York Project (SDG) No.
21D0498

Client Project ID
21-48291 Central Blvd ES

Matrix
Indoor Ambient Air

Collection Date/Time
April 10, 2021 3:00 pm

Date Received
04/12/2021

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/m³	0.62	0.903	EPA TO-15 Certifications:	04/16/2021 13:37	04/16/2021 23:01	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.49	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.62	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.69	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.49	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.37	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.090	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.67	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.44	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ



Sample Information

Client Sample ID: NORTH CRAWL SPACE

York Sample ID:

21D0498-02

York Project (SDG) No.

21D0498

Client Project ID

21-48291 Central Blvd ES

Matrix

Indoor Ambient Air

Collection Date/Time

April 10, 2021 3:00 pm

Date Received

04/12/2021

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
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.69	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.54	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.37	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.42	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.63	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.44	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
106-99-0	1,3-Butadiene	ND		ug/m³	0.60	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.54	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.42	0.903	EPA TO-15 Certifications:	04/16/2021 13:37	04/16/2021 23:01	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.54	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
123-91-1	1,4-Dioxane	ND		ug/m³	0.65	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
78-93-3	2-Butanone	0.80		ug/m³	0.27	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
591-78-6	* 2-Hexanone	ND		ug/m³	0.74	0.903	EPA TO-15 Certifications:	04/16/2021 13:37	04/16/2021 23:01	LLJ
107-05-1	3-Chloropropene	ND		ug/m³	1.4	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.37	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
67-64-1	Acetone	8.8		ug/m³	0.43	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
107-13-1	Acrylonitrile	ND		ug/m³	0.20	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
71-43-2	Benzene	0.43		ug/m³	0.29	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
100-44-7	Benzyl chloride	ND		ug/m³	0.47	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
75-27-4	Bromodichloromethane	ND		ug/m³	0.60	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
75-25-2	Bromoform	ND		ug/m³	0.93	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
74-83-9	Bromomethane	ND		ug/m³	0.35	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ



Sample Information

Client Sample ID: NORTH CRAWL SPACE

York Sample ID:

21D0498-02

York Project (SDG) No.

21D0498

Client Project ID

21-48291 Central Blvd ES

Matrix

Indoor Ambient Air

Collection Date/Time

April 10, 2021 3:00 pm

Date Received

04/12/2021

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
75-15-0	Carbon disulfide	ND		ug/m³	0.28	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
56-23-5	Carbon tetrachloride	0.51		ug/m³	0.14	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
108-90-7	Chlorobenzene	ND		ug/m³	0.42	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
75-00-3	Chloroethane	ND		ug/m³	0.24	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
67-66-3	Chloroform	ND		ug/m³	0.44	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
74-87-3	Chloromethane	1.9		ug/m³	0.19	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.090	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.41	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
110-82-7	Cyclohexane	ND		ug/m³	0.31	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
124-48-1	Dibromochloromethane	ND		ug/m³	0.77	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
75-71-8	Dichlorodifluoromethane	2.3		ug/m³	0.45	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
141-78-6	* Ethyl acetate	ND		ug/m³	0.65	0.903	EPA TO-15 Certifications:	04/16/2021 13:37	04/16/2021 23:01	LLJ
100-41-4	Ethyl Benzene	ND		ug/m³	0.39	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.96	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
67-63-0	Isopropanol	16		ug/m³	0.44	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
80-62-6	Methyl Methacrylate	0.52		ug/m³	0.37	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.33	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
75-09-2	Methylene chloride	7.3		ug/m³	0.63	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
142-82-5	n-Heptane	ND		ug/m³	0.37	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
110-54-3	n-Hexane	0.51		ug/m³	0.32	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
95-47-6	o-Xylene	ND		ug/m³	0.39	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
179601-23-1	p- & m- Xylenes	0.78		ug/m³	0.78	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ



Sample Information

Client Sample ID: NORTH CRAWL SPACE

York Sample ID: **21D0498-02**

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
21D0498	21-48291 Central Blvd ES	Indoor Ambient Air	April 10, 2021 3:00 pm	04/12/2021

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
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.44	0.903	EPA TO-15 Certifications:	04/16/2021 13:37	04/16/2021 23:01	LLJ
115-07-1	* Propylene	ND		ug/m³	0.16	0.903	EPA TO-15 Certifications:	04/16/2021 13:37	04/16/2021 23:01	LLJ
100-42-5	Styrene	ND		ug/m³	0.38	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
127-18-4	Tetrachloroethylene	ND		ug/m³	0.61	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.53	0.903	EPA TO-15 Certifications:	04/16/2021 13:37	04/16/2021 23:01	LLJ
108-88-3	Toluene	2.0		ug/m³	0.34	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.36	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.41	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
79-01-6	Trichloroethylene	ND		ug/m³	0.12	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
75-69-4	Trichlorofluoromethane (Freon 11)	1.4		ug/m³	0.51	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
108-05-4	Vinyl acetate	ND		ug/m³	0.32	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
593-60-2	Vinyl bromide	ND		ug/m³	0.39	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ
75-01-4	Vinyl Chloride	ND		ug/m³	0.12	0.903	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/16/2021 23:01	LLJ

Sample Information

Client Sample ID: ROOM 112

York Sample ID: **21D0498-03**

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
21D0498	21-48291 Central Blvd ES	Indoor Ambient Air	April 10, 2021 3:00 pm	04/12/2021

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/m³	0.60	0.871	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 00:11	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.48	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ



Sample Information

Client Sample ID: ROOM 112

York Sample ID: 21D0498-03

York Project (SDG) No.

21D0498

Client Project ID

21-48291 Central Blvd ES

Matrix

Indoor Ambient Air

Collection Date/Time

April 10, 2021 3:00 pm

Date Received

04/12/2021

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
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.60	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.67	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.48	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.35	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.086	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.65	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.43	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.67	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.52	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.35	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.40	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.61	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.43	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
106-99-0	1,3-Butadiene	ND		ug/m³	0.58	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.52	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.40	0.871	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 00:11	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.52	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
123-91-1	1,4-Dioxane	ND		ug/m³	0.63	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
78-93-3	2-Butanone	0.49		ug/m³	0.26	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
591-78-6	* 2-Hexanone	ND		ug/m³	0.71	0.871	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 00:11	LLJ
107-05-1	3-Chloropropene	ND		ug/m³	1.4	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ



Sample Information

Client Sample ID: ROOM 112

York Sample ID: 21D0498-03

York Project (SDG) No.

21D0498

Client Project ID

21-48291 Central Blvd ES

Matrix

Indoor Ambient Air

Collection Date/Time

April 10, 2021 3:00 pm

Date Received

04/12/2021

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/m³	0.36	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
67-64-1	Acetone	4.2		ug/m³	0.41	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
107-13-1	Acrylonitrile	ND		ug/m³	0.19	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
71-43-2	Benzene	0.31		ug/m³	0.28	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
100-44-7	Benzyl chloride	ND		ug/m³	0.45	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
75-27-4	Bromodichloromethane	ND		ug/m³	0.58	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
75-25-2	Bromoform	ND		ug/m³	0.90	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
74-83-9	Bromomethane	ND		ug/m³	0.34	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
75-15-0	Carbon disulfide	ND		ug/m³	0.27	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
56-23-5	Carbon tetrachloride	0.49		ug/m³	0.14	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
108-90-7	Chlorobenzene	ND		ug/m³	0.40	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
75-00-3	Chloroethane	ND		ug/m³	0.23	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
67-66-3	Chloroform	ND		ug/m³	0.43	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
74-87-3	Chloromethane	1.9		ug/m³	0.18	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.086	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.40	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
110-82-7	Cyclohexane	ND		ug/m³	0.30	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
124-48-1	Dibromochloromethane	ND		ug/m³	0.74	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
75-71-8	Dichlorodifluoromethane	2.5		ug/m³	0.43	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
141-78-6	* Ethyl acetate	ND		ug/m³	0.63	0.871	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 00:11	LLJ
100-41-4	Ethyl Benzene	ND		ug/m³	0.38	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.93	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ



Sample Information

Client Sample ID: ROOM 112

York Sample ID: 21D0498-03

York Project (SDG) No.

21D0498

Client Project ID

21-48291 Central Blvd ES

Matrix

Indoor Ambient Air

Collection Date/Time

April 10, 2021 3:00 pm

Date Received

04/12/2021

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	2.9		ug/m³	0.43	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
80-62-6	Methyl Methacrylate	1.3		ug/m³	0.36	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.31	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
75-09-2	Methylene chloride	5.5		ug/m³	0.61	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
142-82-5	n-Heptane	ND		ug/m³	0.36	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
110-54-3	n-Hexane	0.49		ug/m³	0.31	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
95-47-6	o-Xylene	ND		ug/m³	0.38	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/m³	0.76	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.43	0.871	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 00:11	LLJ
115-07-1	* Propylene	ND		ug/m³	0.15	0.871	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 00:11	LLJ
100-42-5	Styrene	ND		ug/m³	0.37	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
127-18-4	Tetrachloroethylene	ND		ug/m³	0.59	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.51	0.871	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 00:11	LLJ
108-88-3	Toluene	0.79		ug/m³	0.33	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.35	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.40	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
79-01-6	Trichloroethylene	ND		ug/m³	0.12	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
75-69-4	Trichlorofluoromethane (Freon 11)	1.3		ug/m³	0.49	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
108-05-4	Vinyl acetate	ND		ug/m³	0.31	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
593-60-2	Vinyl bromide	ND		ug/m³	0.38	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ
75-01-4	Vinyl Chloride	ND		ug/m³	0.11	0.871	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 00:11	LLJ



Sample Information

Client Sample ID: SOUTH SUBSURFACE	York Sample ID: 21D0498-04
<u>York Project (SDG) No.</u> 21D0498	<u>Client Project ID</u> 21-48291 Central Blvd ES
	<u>Matrix</u> Soil Vapor <u>Collection Date/Time</u> April 10, 2021 3:00 pm <u>Date Received</u> 04/12/2021

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/m³	5.2	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	4.2	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	5.2	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	5.8	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	4.2	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/m³	3.1	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.75	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	5.7	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	3.7	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/m³	5.9	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	4.6	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/m³	3.1	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/m³	3.5	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	5.3	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	3.7	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
106-99-0	1,3-Butadiene	ND		ug/m³	5.1	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	4.6	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	3.5	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	4.6	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
123-91-1	1,4-Dioxane	ND		ug/m³	5.5	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
78-93-3	2-Butanone	15		ug/m³	2.2	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ



Sample Information

Client Sample ID:	SOUTH SUBSURFACE	York Sample ID:	21D0498-04
York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time
21D0498	21-48291 Central Blvd ES	Soil Vapor	April 10, 2021 3:00 pm
			04/12/2021

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
591-78-6	* 2-Hexanone	ND		ug/m³	6.2	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
107-05-1	3-Chloropropene	ND		ug/m³	12	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
108-10-1	4-Methyl-2-pentanone	8.7		ug/m³	3.1	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
67-64-1	Acetone	450		ug/m³	3.6	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
107-13-1	Acrylonitrile	ND		ug/m³	1.7	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
71-43-2	Benzene	2.9		ug/m³	2.4	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
100-44-7	Benzyl chloride	ND		ug/m³	3.9	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
75-27-4	Bromodichloromethane	ND		ug/m³	5.1	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
75-25-2	Bromoform	ND		ug/m³	7.9	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
74-83-9	Bromomethane	ND		ug/m³	3.0	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
75-15-0	Carbon disulfide	12		ug/m³	2.4	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
56-23-5	Carbon tetrachloride	ND		ug/m³	1.2	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
108-90-7	Chlorobenzene	ND		ug/m³	3.5	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
75-00-3	Chloroethane	ND		ug/m³	2.0	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
67-66-3	Chloroform	ND		ug/m³	3.7	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
74-87-3	Chloromethane	ND		ug/m³	1.6	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.75	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	3.5	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
110-82-7	Cyclohexane	ND		ug/m³	2.6	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
124-48-1	Dibromochloromethane	ND		ug/m³	6.5	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/m³	3.8	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
141-78-6	* Ethyl acetate	78		ug/m³	5.5	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ



Sample Information

Client Sample ID: SOUTH SUBSURFACE	York Sample ID: 21D0498-04
<u>York Project (SDG) No.</u> 21D0498	<u>Client Project ID</u> 21-48291 Central Blvd ES
	<u>Matrix</u> Soil Vapor <u>Collection Date/Time</u> April 10, 2021 3:00 pm <u>Date Received</u> 04/12/2021

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
100-41-4	Ethyl Benzene	5.0		ug/m³	3.3	7.616	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 06:51	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/m³	8.1	7.616	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 06:51	LLJ
67-63-0	Isopropanol	30		ug/m³	3.7	7.616	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 06:51	LLJ
80-62-6	Methyl Methacrylate	ND		ug/m³	3.1	7.616	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 06:51	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	2.7	7.616	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 06:51	LLJ
75-09-2	Methylene chloride	11		ug/m³	5.3	7.616	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 06:51	LLJ
142-82-5	n-Heptane	3.7		ug/m³	3.1	7.616	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 06:51	LLJ
110-54-3	n-Hexane	9.7		ug/m³	2.7	7.616	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 06:51	LLJ
95-47-6	o-Xylene	7.3		ug/m³	3.3	7.616	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 06:51	LLJ
179601-23-1	p- & m- Xylenes	12		ug/m³	6.6	7.616	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 06:51	LLJ
622-96-8	* p-Ethyltoluene	9.0		ug/m³	3.7	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
115-07-1	* Propylene	ND		ug/m³	1.3	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
100-42-5	Styrene	ND		ug/m³	3.2	7.616	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 06:51	LLJ
127-18-4	Tetrachloroethylene	ND		ug/m³	5.2	7.616	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 06:51	LLJ
109-99-9	* Tetrahydrofuran	ND		ug/m³	4.5	7.616	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 06:51	LLJ
108-88-3	Toluene	370		ug/m³	2.9	7.616	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 06:51	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	3.0	7.616	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 06:51	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	3.5	7.616	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 06:51	LLJ
79-01-6	Trichloroethylene	ND		ug/m³	1.0	7.616	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 06:51	LLJ
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	4.3	7.616	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 06:51	LLJ
108-05-4	Vinyl acetate	ND		ug/m³	2.7	7.616	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 06:51	LLJ
593-60-2	Vinyl bromide	ND		ug/m³	3.3	7.616	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 06:51	LLJ



Sample Information

Client Sample ID: **SOUTH SUBSURFACE**

York Sample ID: **21D0498-04**

York Project (SDG) No.
21D0498

Client Project ID
21-48291 Central Blvd ES

Matrix
Soil Vapor

Collection Date/Time
April 10, 2021 3:00 pm

Date Received
04/12/2021

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
75-01-4	Vinyl Chloride	ND		ug/m³	0.97	7.616	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 06:51	LLJ

Helium

Log-in Notes:

Sample Notes:

Sample Prepared by Method: PREP for GASES by GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-59-7	* Helium	ND		%	0.95	1.9	GC/TCD Certifications:	04/19/2021 06:22	04/19/2021 16:49	TMP

Sample Information

Client Sample ID: **SOUTH CRAWL SPACE**

York Sample ID: **21D0498-05**

York Project (SDG) No.
21D0498

Client Project ID
21-48291 Central Blvd ES

Matrix
Indoor Ambient Air

Collection Date/Time
April 10, 2021 3:00 pm

Date Received
04/12/2021

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/m³	0.61	0.886	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 01:22	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.48	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.61	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.68	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.48	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.36	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.088	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.66	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.44	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ



Sample Information

Client Sample ID: SOUTH CRAWL SPACE

York Sample ID: 21D0498-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21D0498	21-48291 Central Blvd ES	Indoor Ambient Air	April 10, 2021 3:00 pm	04/12/2021

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
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.68	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.53	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.36	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.41	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.62	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.44	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
106-99-0	1,3-Butadiene	ND		ug/m³	0.59	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.53	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.41	0.886	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 01:22	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.53	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
123-91-1	1,4-Dioxane	ND		ug/m³	0.64	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
78-93-3	2-Butanone	0.99		ug/m³	0.26	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
591-78-6	* 2-Hexanone	ND		ug/m³	0.73	0.886	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 01:22	LLJ
107-05-1	3-Chloropropene	ND		ug/m³	1.4	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.36	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
67-64-1	Acetone	11		ug/m³	0.42	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
107-13-1	Acrylonitrile	ND		ug/m³	0.19	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
71-43-2	Benzene	0.37		ug/m³	0.28	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
100-44-7	Benzyl chloride	ND		ug/m³	0.46	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
75-27-4	Bromodichloromethane	ND		ug/m³	0.59	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
75-25-2	Bromoform	ND		ug/m³	0.92	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
74-83-9	Bromomethane	ND		ug/m³	0.34	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ



Sample Information

Client Sample ID: **SOUTH CRAWL SPACE**

York Sample ID: **21D0498-05**

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
21D0498	21-48291 Central Blvd ES	Indoor Ambient Air	April 10, 2021 3:00 pm	04/12/2021

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
75-15-0	Carbon disulfide	ND		ug/m³	0.28	0.886	EPA TO-15	04/16/2021 13:37	04/17/2021 01:22	LLJ
56-23-5	Carbon tetrachloride	0.45		ug/m³	0.14	0.886	EPA TO-15	04/16/2021 13:37	04/17/2021 01:22	LLJ
108-90-7	Chlorobenzene	ND		ug/m³	0.41	0.886	EPA TO-15	04/16/2021 13:37	04/17/2021 01:22	LLJ
75-00-3	Chloroethane	ND		ug/m³	0.23	0.886	EPA TO-15	04/16/2021 13:37	04/17/2021 01:22	LLJ
67-66-3	Chloroform	ND		ug/m³	0.43	0.886	EPA TO-15	04/16/2021 13:37	04/17/2021 01:22	LLJ
74-87-3	Chloromethane	1.7		ug/m³	0.18	0.886	EPA TO-15	04/16/2021 13:37	04/17/2021 01:22	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.088	0.886	EPA TO-15	04/16/2021 13:37	04/17/2021 01:22	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.40	0.886	EPA TO-15	04/16/2021 13:37	04/17/2021 01:22	LLJ
110-82-7	Cyclohexane	ND		ug/m³	0.30	0.886	EPA TO-15	04/16/2021 13:37	04/17/2021 01:22	LLJ
124-48-1	Dibromochloromethane	ND		ug/m³	0.75	0.886	EPA TO-15	04/16/2021 13:37	04/17/2021 01:22	LLJ
75-71-8	Dichlorodifluoromethane	2.4		ug/m³	0.44	0.886	EPA TO-15	04/16/2021 13:37	04/17/2021 01:22	LLJ
141-78-6	* Ethyl acetate	ND		ug/m³	0.64	0.886	EPA TO-15	04/16/2021 13:37	04/17/2021 01:22	LLJ
100-41-4	Ethyl Benzene	ND		ug/m³	0.38	0.886	EPA TO-15	04/16/2021 13:37	04/17/2021 01:22	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.94	0.886	EPA TO-15	04/16/2021 13:37	04/17/2021 01:22	LLJ
67-63-0	Isopropanol	9.6		ug/m³	0.44	0.886	EPA TO-15	04/16/2021 13:37	04/17/2021 01:22	LLJ
80-62-6	Methyl Methacrylate	ND		ug/m³	0.36	0.886	EPA TO-15	04/16/2021 13:37	04/17/2021 01:22	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.32	0.886	EPA TO-15	04/16/2021 13:37	04/17/2021 01:22	LLJ
75-09-2	Methylene chloride	1.4		ug/m³	0.62	0.886	EPA TO-15	04/16/2021 13:37	04/17/2021 01:22	LLJ
142-82-5	n-Heptane	0.54		ug/m³	0.36	0.886	EPA TO-15	04/16/2021 13:37	04/17/2021 01:22	LLJ
110-54-3	n-Hexane	0.59		ug/m³	0.31	0.886	EPA TO-15	04/16/2021 13:37	04/17/2021 01:22	LLJ
95-47-6	o-Xylene	ND		ug/m³	0.38	0.886	EPA TO-15	04/16/2021 13:37	04/17/2021 01:22	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/m³	0.77	0.886	EPA TO-15	04/16/2021 13:37	04/17/2021 01:22	LLJ



Sample Information

Client Sample ID: **SOUTH CRAWL SPACE**

York Sample ID: **21D0498-05**

York Project (SDG) No.

21D0498

Client Project ID

21-48291 Central Blvd ES

Matrix

Indoor Ambient Air

Collection Date/Time

April 10, 2021 3:00 pm

Date Received

04/12/2021

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
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.44	0.886	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 01:22	LLJ
115-07-1	* Propylene	ND		ug/m³	0.15	0.886	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 01:22	LLJ
100-42-5	Styrene	ND		ug/m³	0.38	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
127-18-4	Tetrachloroethylene	ND		ug/m³	0.60	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.52	0.886	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 01:22	LLJ
108-88-3	Toluene	1.7		ug/m³	0.33	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.35	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.40	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
79-01-6	Trichloroethylene	ND		ug/m³	0.12	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
75-69-4	Trichlorofluoromethane (Freon 11)	1.4		ug/m³	0.50	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
108-05-4	Vinyl acetate	ND		ug/m³	0.31	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
593-60-2	Vinyl bromide	ND		ug/m³	0.39	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ
75-01-4	Vinyl Chloride	ND		ug/m³	0.11	0.886	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 01:22	LLJ

Sample Information

Client Sample ID: **SOUTH FIRST FLOOR HALLWAY**

York Sample ID: **21D0498-06**

York Project (SDG) No.

21D0498

Client Project ID

21-48291 Central Blvd ES

Matrix

Indoor Ambient Air

Collection Date/Time

April 10, 2021 3:00 pm

Date Received

04/12/2021

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/m³	0.58	0.851	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 02:33	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.46	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ



Sample Information

Client Sample ID: **SOUTH FIRST FLOOR HALLWAY**

York Sample ID:

21D0498-06

York Project (SDG) No.

21D0498

Client Project ID

21-48291 Central Blvd ES

Matrix

Indoor Ambient Air

Collection Date/Time

April 10, 2021 3:00 pm

Date Received

04/12/2021

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
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.58	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.65	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.46	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.34	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.084	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.63	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.42	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.65	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.51	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.34	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.39	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.59	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.42	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
106-99-0	1,3-Butadiene	ND		ug/m³	0.56	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.51	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.39	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.51	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
123-91-1	1,4-Dioxane	ND		ug/m³	0.61	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
78-93-3	2-Butanone	0.80		ug/m³	0.25	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
591-78-6	* 2-Hexanone	ND		ug/m³	0.70	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
107-05-1	3-Chloropropene	ND		ug/m³	1.3	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ



Sample Information

Client Sample ID: SOUTH FIRST FLOOR HALLWAY

York Sample ID:

21D0498-06

York Project (SDG) No.

21D0498

Client Project ID

21-48291 Central Blvd ES

Matrix

Indoor Ambient Air

Collection Date/Time

April 10, 2021 3:00 pm

Date Received

04/12/2021

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/m³	0.35	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
67-64-1	Acetone	5.0		ug/m³	0.40	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
107-13-1	Acrylonitrile	ND		ug/m³	0.18	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
71-43-2	Benzene	0.33		ug/m³	0.27	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
100-44-7	Benzyl chloride	ND		ug/m³	0.44	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
75-27-4	Bromodichloromethane	ND		ug/m³	0.57	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
75-25-2	Bromoform	ND		ug/m³	0.88	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
74-83-9	Bromomethane	ND		ug/m³	0.33	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
75-15-0	Carbon disulfide	ND		ug/m³	0.27	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
56-23-5	Carbon tetrachloride	0.48		ug/m³	0.13	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
108-90-7	Chlorobenzene	ND		ug/m³	0.39	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
75-00-3	Chloroethane	ND		ug/m³	0.22	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
67-66-3	Chloroform	ND		ug/m³	0.42	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
74-87-3	Chloromethane	1.8		ug/m³	0.18	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.084	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.39	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
110-82-7	Cyclohexane	ND		ug/m³	0.29	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
124-48-1	Dibromochloromethane	ND		ug/m³	0.72	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
75-71-8	Dichlorodifluoromethane	2.5		ug/m³	0.42	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
141-78-6	* Ethyl acetate	ND		ug/m³	0.61	0.851	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 02:33	LLJ
100-41-4	Ethyl Benzene	ND		ug/m³	0.37	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.91	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ



Sample Information

Client Sample ID: **SOUTH FIRST FLOOR HALLWAY**

York Sample ID:

21D0498-06

York Project (SDG) No.

21D0498

Client Project ID

21-48291 Central Blvd ES

Matrix

Indoor Ambient Air

Collection Date/Time

April 10, 2021 3:00 pm

Date Received

04/12/2021

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	2.1		ug/m³	0.42	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
80-62-6	Methyl Methacrylate	1.1		ug/m³	0.35	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.31	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
75-09-2	Methylene chloride	5.5		ug/m³	0.59	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
142-82-5	n-Heptane	ND		ug/m³	0.35	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
110-54-3	n-Hexane	0.48		ug/m³	0.30	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
95-47-6	o-Xylene	ND		ug/m³	0.37	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/m³	0.74	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.42	0.851	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 02:33	LLJ
115-07-1	* Propylene	ND		ug/m³	0.15	0.851	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 02:33	LLJ
100-42-5	Styrene	ND		ug/m³	0.36	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
127-18-4	Tetrachloroethylene	ND		ug/m³	0.58	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.50	0.851	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 02:33	LLJ
108-88-3	Toluene	1.7		ug/m³	0.32	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.34	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.39	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
79-01-6	Trichloroethylene	ND		ug/m³	0.11	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
75-69-4	Trichlorofluoromethane (Freon 11)	1.3		ug/m³	0.48	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
108-05-4	Vinyl acetate	ND		ug/m³	0.30	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
593-60-2	Vinyl bromide	ND		ug/m³	0.37	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ
75-01-4	Vinyl Chloride	ND		ug/m³	0.11	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 02:33	LLJ



Sample Information

Client Sample ID: AMBIENT

York Sample ID: 21D0498-07

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
21D0498	21-48291 Central Blvd ES	Outdoor Ambient Air	April 10, 2021 3:00 pm	04/12/2021

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/m³	0.69	1.005	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 04:53	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.55	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.69	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.77	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.55	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.41	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.10	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.75	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.49	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.77	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.60	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.41	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.46	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.70	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.49	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
106-99-0	1,3-Butadiene	ND		ug/m³	0.67	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.60	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.46	1.005	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 04:53	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.60	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
123-91-1	1,4-Dioxane	ND		ug/m³	0.72	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
78-93-3	2-Butanone	0.44		ug/m³	0.30	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ



Sample Information

Client Sample ID: AMBIENT		York Sample ID:	21D0498-07
<u>York Project (SDG) No.</u> 21D0498	<u>Client Project ID</u> 21-48291 Central Blvd ES	<u>Matrix</u> Outdoor Ambient Air	<u>Collection Date/Time</u> April 10, 2021 3:00 pm
			<u>Date Received</u> 04/12/2021

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
591-78-6	* 2-Hexanone	ND		ug/m³	0.82	1.005	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 04:53	LLJ
107-05-1	3-Chloropropene	ND		ug/m³	1.6	1.005	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 04:53	LLJ
NELAC-NY12058,NJDEP-Queens										
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.41	1.005	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 04:53	LLJ
NELAC-NY12058,NJDEP-Queens										
67-64-1	Acetone	2.9		ug/m³	0.48	1.005	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 04:53	LLJ
NELAC-NY12058,NJDEP-Queens										
107-13-1	Acrylonitrile	ND		ug/m³	0.22	1.005	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 04:53	LLJ
NELAC-NY12058,NJDEP-Queens										
71-43-2	Benzene	ND		ug/m³	0.32	1.005	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 04:53	LLJ
NELAC-NY12058,NJDEP-Queens										
100-44-7	Benzyl chloride	ND		ug/m³	0.52	1.005	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 04:53	LLJ
NELAC-NY12058,NJDEP-Queens										
75-27-4	Bromodichloromethane	ND		ug/m³	0.67	1.005	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 04:53	LLJ
NELAC-NY12058,NJDEP-Queens										
75-25-2	Bromoform	ND		ug/m³	1.0	1.005	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 04:53	LLJ
NELAC-NY12058,NJDEP-Queens										
74-83-9	Bromomethane	ND		ug/m³	0.39	1.005	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 04:53	LLJ
NELAC-NY12058,NJDEP-Queens										
75-15-0	Carbon disulfide	ND		ug/m³	0.31	1.005	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 04:53	LLJ
NELAC-NY12058,NJDEP-Queens										
56-23-5	Carbon tetrachloride	0.51		ug/m³	0.16	1.005	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 04:53	LLJ
NELAC-NY12058,NJDEP-Queens										
108-90-7	Chlorobenzene	ND		ug/m³	0.46	1.005	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 04:53	LLJ
NELAC-NY12058,NJDEP-Queens										
75-00-3	Chloroethane	ND		ug/m³	0.27	1.005	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 04:53	LLJ
NELAC-NY12058,NJDEP-Queens										
67-66-3	Chloroform	ND		ug/m³	0.49	1.005	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 04:53	LLJ
NELAC-NY12058,NJDEP-Queens										
74-87-3	Chloromethane	1.8		ug/m³	0.21	1.005	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 04:53	LLJ
NELAC-NY12058,NJDEP-Queens										
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.10	1.005	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 04:53	LLJ
NELAC-NY12058,NJDEP-Queens										
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.46	1.005	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 04:53	LLJ
NELAC-NY12058,NJDEP-Queens										
110-82-7	Cyclohexane	ND		ug/m³	0.35	1.005	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 04:53	LLJ
NELAC-NY12058,NJDEP-Queens										
124-48-1	Dibromochloromethane	ND		ug/m³	0.86	1.005	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 04:53	LLJ
NELAC-NY12058,NJDEP-Queens										
75-71-8	Dichlorodifluoromethane	2.6		ug/m³	0.50	1.005	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 04:53	LLJ
NELAC-NY12058,NJDEP-Queens										
141-78-6	* Ethyl acetate	ND		ug/m³	0.72	1.005	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 04:53	LLJ



Sample Information

Client Sample ID: AMBIENT

York Sample ID: 21D0498-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21D0498	21-48291 Central Blvd ES	Outdoor Ambient Air	April 10, 2021 3:00 pm	04/12/2021

Volatile Organics, EPA TO15 Full List

Sample Prepared by Method: EPA TO15 PREP

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/m³	0.44	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.1	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
67-63-0	Isopropanol	0.89		ug/m³	0.49	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
80-62-6	Methyl Methacrylate	0.78		ug/m³	0.41	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.36	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
75-09-2	Methylene chloride	3.5		ug/m³	0.70	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
142-82-5	n-Heptane	ND		ug/m³	0.41	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
110-54-3	n-Hexane	0.46		ug/m³	0.35	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
95-47-6	o-Xylene	ND		ug/m³	0.44	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/m³	0.87	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.49	1.005	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 04:53	LLJ
115-07-1	* Propylene	ND		ug/m³	0.17	1.005	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 04:53	LLJ
100-42-5	Styrene	ND		ug/m³	0.43	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
127-18-4	Tetrachloroethylene	1.4		ug/m³	0.68	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.59	1.005	EPA TO-15 Certifications:	04/16/2021 13:37	04/17/2021 04:53	LLJ
108-88-3	Toluene	1.0		ug/m³	0.38	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.40	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.46	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
79-01-6	Trichloroethylene	0.22		ug/m³	0.14	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
75-69-4	Trichlorofluoromethane (Freon 11)	1.4		ug/m³	0.56	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
108-05-4	Vinyl acetate	ND		ug/m³	0.35	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ
593-60-2	Vinyl bromide	ND		ug/m³	0.44	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ



Sample Information

<u>Client Sample ID:</u> AMBIENT		<u>York Sample ID:</u> 21D0498-07
<u>York Project (SDG) No.</u> 21D0498	<u>Client Project ID</u> 21-48291 Central Blvd ES	<u>Matrix</u> Outdoor Ambient Air <u>Collection Date/Time</u> April 10, 2021 3:00 pm <u>Date Received</u> 04/12/2021

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
75-01-4	Vinyl Chloride	ND		ug/m ³	0.13	1.005	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/16/2021 13:37	04/17/2021 04:53	LLJ



Sample and Data Qualifiers Relating to This Work Order

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.



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Field Chain-of-Custody Record - AIR

YORK Project No.

21D0498

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 _____
Page ____ of ____

YOUR Information		Report To:	Invoice To:	YOUR Project Number <i>Z1-48291</i>	Turn-Around Time RUSH - Next Day RUSH - Two Day RUSH - Three Day RUSH - Four Day Standard (5-7 Day) <input checked="" type="checkbox"/>		
Company: <i>JCB KRODERICK & ASZOR</i>	Address: <i>1775 EXPRESSWAY DR. N HAUPPAUGE, NY 11788</i>	Company: <i>JCB</i>	Address:				
Phone: <i>631-584-5492</i>	Phone:	Phone:	YOUR Project Name <i>CENTRAL BLVD. CS</i>				
Contact: <i>SMULLEN</i>	Contact:	Contact:					
Email: <i>SMULLEN@JCBKRODERICK.COM</i>	E-mail:	E-mail:	YOUR PO#:				
<p>Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.</p> <p><i>Steven Mullen</i></p> <p>Samples Collected by: (print your name above and sign below)</p> <p><i>Steven Mullen</i></p>		Air Matrix Codes	Samples From	Report / EDD Type (circle selections)			YORK Reg. Comp.
		AI - Indoor Ambient Air	New York	<input checked="" type="checkbox"/> Summary Report	CT RCP	Standard Excel EDD	Compared to the following Regulation(s): (please fill in)
		AO - Outdoor Amb. Air	New Jersey	<input type="checkbox"/> QA Report	CT RCP DQA/DUE	EQuIS (Standard)	
		AE - Vapor Extraction Well/ Process Gas/Effluent	Connecticut	<input type="checkbox"/> NY ASP A Package	NJDEP Reduced Deliv.	NYSDEC EQuIS	
		AS - Soil Vapor/Sub-Slab	Pennsylvania	<input type="checkbox"/> NY ASP B Package	NJDQP	NJDEP SRP HazSite	
			Other	<input type="checkbox"/> Other:			

Certified Canisters: Batch _____ Individual _____		Please enter the following REQUIRED Field Data					Reporting Units: ug/m ³ <input checked="" type="checkbox"/> ppbv _____ ppmv _____
Sample Identification	Date/Time Sampled	Air Matrix	Canister Vacuum Before Sampling (in Hg)	Canister Vacuum After Sampling (in Hg)	Canister ID	Flow Cont. ID	Analysis Requested
North Subsurface	4/10/21	AS	27	8	28852	7417	TO-15 + He
North Crawl Space	4/10/21	AI	29	6	17350	6863	TO-15
Room 112	4/10/21	AI	27.5	4	23797	5706	TO-15
South Subsurface	4/10/21	AS	30	11	15524	6874	TO-5 + He
South Crawl Space	4/10/21	AI	29	6	37405	13520	TO-15
South First Floor Hallway	4/10/21	AI	30	8.5	18308	6881	TO-15
AMBIENT	4/10/21	AO	30	9	34496	7095	TO-15
Comments:						Detection Limits Required	Sampling Media
						$\leq 1 \text{ ug/m}^3$ <input checked="" type="checkbox"/> NYSDEC V1 Limits _____ Routine Survey _____ Other _____	6 Liter Canister <input checked="" type="checkbox"/> Tedlar Bag

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
<i>SMULLEN / JCB</i>	4/12/21 12pm	<i>KB at York</i>	4/12/21 10PM	<i>KB at York</i>	4/12/21 1640
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
<i>J. Gah / YORK</i>	4-12-21/1640	<i>J. Gah / YORK</i>	4-12-21/1936	<i>Ed Gah</i>	4/12/21 1855
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
<i>Ed Gah</i>	4-11-21/2215			<i>Anne A Schurk</i>	4/13/21 09:00