

VOLATILE VAPOR INTRUSION (VVI) REPORT

**KRAMER ELEMENTARY SCHOOL
1 KRAMER LANE
PLAINVIEW, NEW YORK 11803**

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

**JCB PROJECT #: 18-39197
MARCH 2018**

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

**1775 Expressway Drive North
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Section No. 1.0: Introduction

J.C. Broderick and Associates, Inc. (JCB) was retained by the Bethpage Union Free School District (Bethpage) to investigate the potential for volatile vapor intrusion (VVI) at the Kramer Lane Elementary School campus. 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 and all available updates.

Section No. 2.0: Site Description and Location

The Subject Site is located at 1 Kramer Lane, New York 11803. The Subject Site is located on the west side of Keswick Lane and the west end of Kramer Lane. 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 140 feet (ft) above mean sea level. 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 prepared for the Bethpage High School was followed during the volatile vapor intrusion evaluations. The following sections describe the procedures taken.

Section No. 3.1: Pre-Work Field Preparations

On February 22, 2018, 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, 1st Floor, and Ambient Sampling Locations for additional details

- For the collection of the subsurface vapor samples, a probe was fabricated from ½-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 two (2) inches below the top of the sand. The pipe was lowered into the hole, but not flush to the bottom and set into place utilizing hydrated bentonite powder, which contains 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 and duct tape. A Teflon-lined, ¼-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 February 23, 2018, a total of two (2) subsurface vapor samples were collected.
 - One (1) subsurface sample was collected from beneath Classroom 102 located at the north end of the school building.
 - One (1) subsurface sample was collected from beneath Classroom 112 located at the south end of the school building.

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 through 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: Crawlspace Air Sample Collection

Please refer to Figure No. 2 - Subsurface, Crawlspace and Basement Sample Locations for additional details

- A total of two (2) crawlspace air samples were collected.
 - One (1) air sample was collected from beneath Classroom 102 located at the north end of the school building.
 - One (1) air sample was collected from beneath Classroom 112 located at the south end of the school building.

Section No. 3.3.2: 1st Floor Air Sample Collection

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

- On February 23, 2018, a total of two (2) first floor air samples were collected.
 - One (1) air sample was collected from within Classroom 102 located at the north end of the school building.
 - One (1) air sample was collected from within Classroom 112 located at the south end 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 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. 2 – Subsurface Crawlspace 1st Floor and Ambient Sampling Locations for additional details.

- On February 23, 2018, 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 west exit doors.

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 Analytical 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.

The laboratory analysis results for the air samples collected were reviewed and compared to the 90th percentile as listed in Table C1 NYSDOH 2003 Study of Volatile Organic Chemicals in Air of Fuel Oil Heated Homes of the NYSDOH's "Final NYSDOH CEH BEEI Soil Vapor Intrusion Guidance" dated October 2006 and all available updates

The following table 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								
Client Sample ID	Background Values	Ambient	North Subsurface	North Crawlspace	South Subsurface	South Crawlspace	Classroom 102	Classroom 112
TO-15 List	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
1,1,1-Trichloroethane	3.1	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	9.5	ND	3.2	ND	1.3	ND	ND	ND
1,3,5-Trimethylbenzene	3.6	ND	1.2	ND	ND	ND	ND	ND
1,1-Dichloroethene	< 0.25	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	NA	ND	2.9	ND	3.9	ND	ND	ND
Acetone	110	1.8	71	3.3	160	1.7	2.7	2.1
Benzene	15	0.22	2.0	0.27	4.6	ND	0.27	0.26
2-Butanone	16	0.22	14	0.46	26	0.20	0.33	0.24
2-Hexanone	NA	ND	19	ND	ND	2.9	ND	9.2
Carbon Tetrachloride	0.81	0.23	ND	0.23	0.35	0.10	0.27	0.27
Carbon disulfide	NA	ND	1.1	ND	ND	ND	ND	ND
Chloromethane	3.3	0.52	ND	0.62	0.38	0.34	0.50	0.55
cis 1,2-Dichloroethene	< 0.25	ND	ND	ND	ND	ND	ND	ND
Chloroform	1.4	ND	ND	ND	3.4	ND	ND	ND
Cyclohexane	8.1	ND	ND	ND	1.3	ND	ND	ND
Dichlorodifluoromethane	15	1.3	2.5	1.2	2.5	0.58	1.3	1.4
Ethyl acetate	NA	ND	ND	ND	1.5	ND	ND	ND
Ethylbenzene	7.3	ND	25	ND	1.5	ND	ND	ND
Isopropanol	NA	ND	3.6	0.75	4.8	0.42	0.96	1.2
Methylene Chloride	22	ND	ND	ND	ND	ND	ND	ND
n-Heptane	19	ND	ND	ND	1.8	ND	ND	ND
n-Hexane	18	ND	1.8	ND	5.0	ND	ND	ND
o-Xylene	7.6	ND	9.5	ND	1.0	ND	ND	ND
p&m-Xylenes	12	ND	30	ND	2.8	ND	0.56	ND
p-Ethyltoluene	NA	ND	3.3	ND	0.99	ND	ND	ND
Propylene	NA	0.31	1.3	0.36	1.6	0.18	0.37	0.34
Styrene	1.3	ND	1.6	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	2.9	ND	1.8	ND	0.87	ND	ND	ND
Tetrahydrofuran	3.3	ND	22	ND	53	ND	ND	ND
Toluene	58	0.26	920	0.80	240	0.50	0.80	0.60

Table No. 1: Volatile Vapor Intrusion Analytical Results of Detected Compounds via EPA Method TO-15								
Client Sample ID	Background Values	Ambient	North Subsurface	North Crawlspace	South Subsurface	South Crawlspace	Classroom 102	Classroom 112
TO-15 List	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
Trichloroethene (TCE)	0.45	ND	ND	ND	0.39	ND	0.086	ND
Trichlorofluoromethane	17	0.84	1.5	0.84	1.8	0.39	0.84	0.93
Vinyl Chloride	< 0.25	ND	ND	ND	ND	ND	ND	ND
Helium	NA	NT	ND	NT	ND	NT	NT	NT

Notes:
 µg/m³ = parts per billion
 NA = Background Value Not Established
 ND=Not Detected above the laboratory minimum detection limit
 Background Values = NYSDOH 2003 Study of Volatile Organic Compounds in Air or Fuel Oil Heated Homes 90th Percentile, revised 2005
¹ The State of New York does not have any standards, criteria, or guidance values for concentrations of volatile chemicals in subsurface vapors
 Compounds in gray are used in Decision Matrices A, B, & C. - See Section 5.0 and Table No. 2 for additional information.
 Helium was used as a tracer gas, a detection of over 10% would indicate a breakthrough in the subsurface probe seal.

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 polyethylene sheeting covering the crawlspace sand, the structure was deemed to contain a full slab for the purpose of this investigation.

The NYSDOH has currently developed eight (8) 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
Carbon Tetrachloride	Matrix A	No Further Action
cis 1,2-Dichloroethene	Matrix A	No Further Action
1,1-Dichloroethene	Matrix A	No Further Action
Methylene Chloride	Matrix B	No Further Action
Tetrachloroethene (PCE)	Matrix B	No Further Action
Trichloroethene (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 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 sample.

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 were 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 laboratory analysis results all detectable concentrations observed were reported well below published occupational health guidelines. All detectable concentrations observed in the occupied spaces of the school building were below their background values as reported in the NYSDOH 2003 Study of Volatile Organic Chemicals in Air of Fuel Oil Heated Homes 90th Percentile.

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

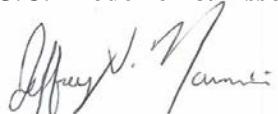
Section No. 8.0: Recommendations

It is recommended that periodic VVI sampling be performed to monitor site conditions.

Section No. 9.0: 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. (LA)
Project Manager

Appendix A

Figures



J.C. BRODERICK

& Associates

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Notes:

Kramer Lane
Elementary School
1 Kramer Lane
Plainview, New York 11803

Drawing Title

Figure No. 1

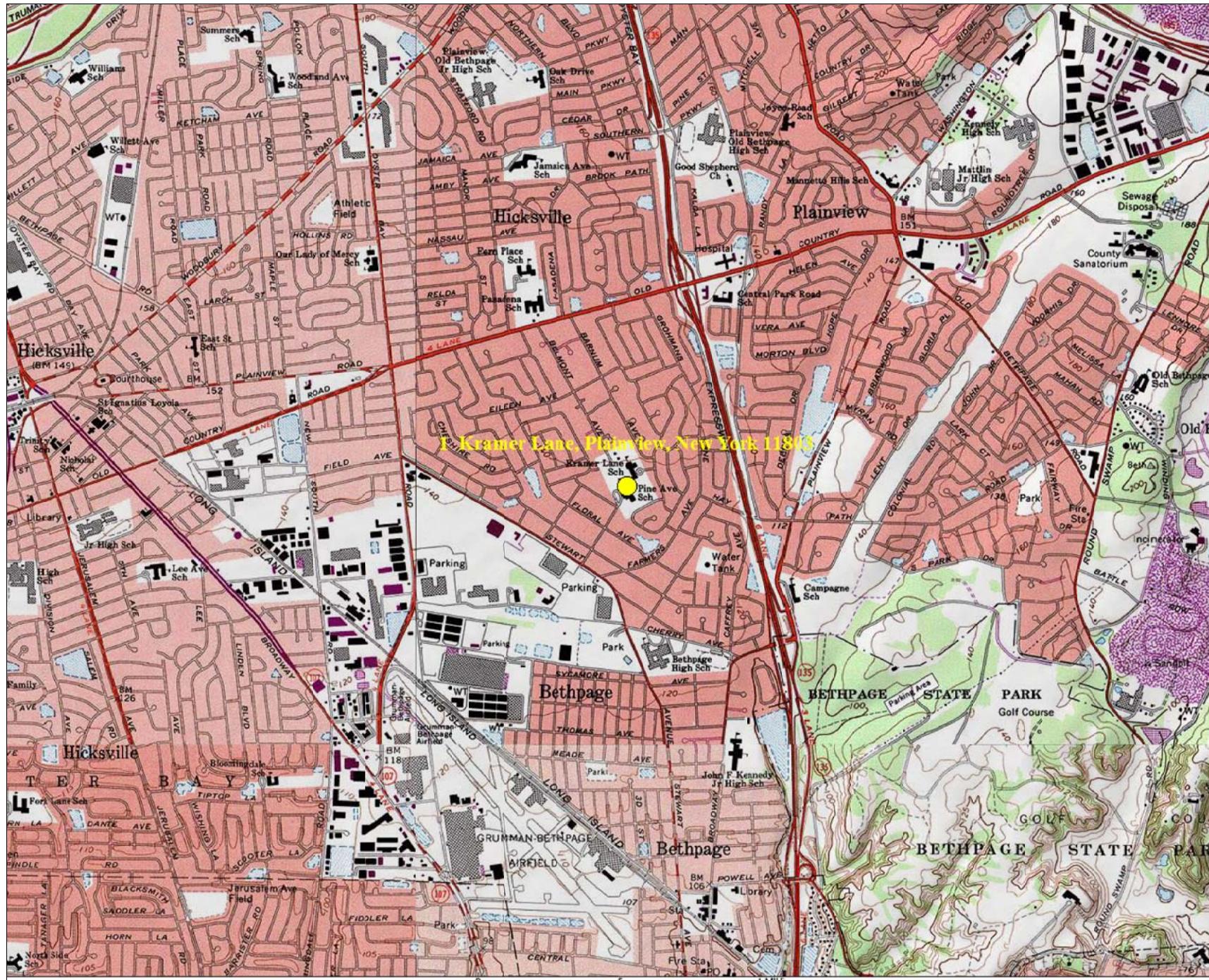
Site Location Map

Scale Project No. Date
As Noted 18-39197 03-08-18

Drawn By Checked By Page No.
M.C. S.W.M. 1 of 2

Drawing No.

1



JCB LEGEND

■ SUBJECT SITE

Map created with TOPO!® ©2002 National Geographic (www.nationalgeographic.com/topo)

0 1000 FEET 0 500 1000 METERS



J.C. BRODERICK

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Notes:

Kramer Lane
Elementary School
1 Kramer Lane
Plainview, New York 11803

Drawing Title

Figure No. 2

Subsurface
Crawlspace,
1st Floor
Sampling
Locations

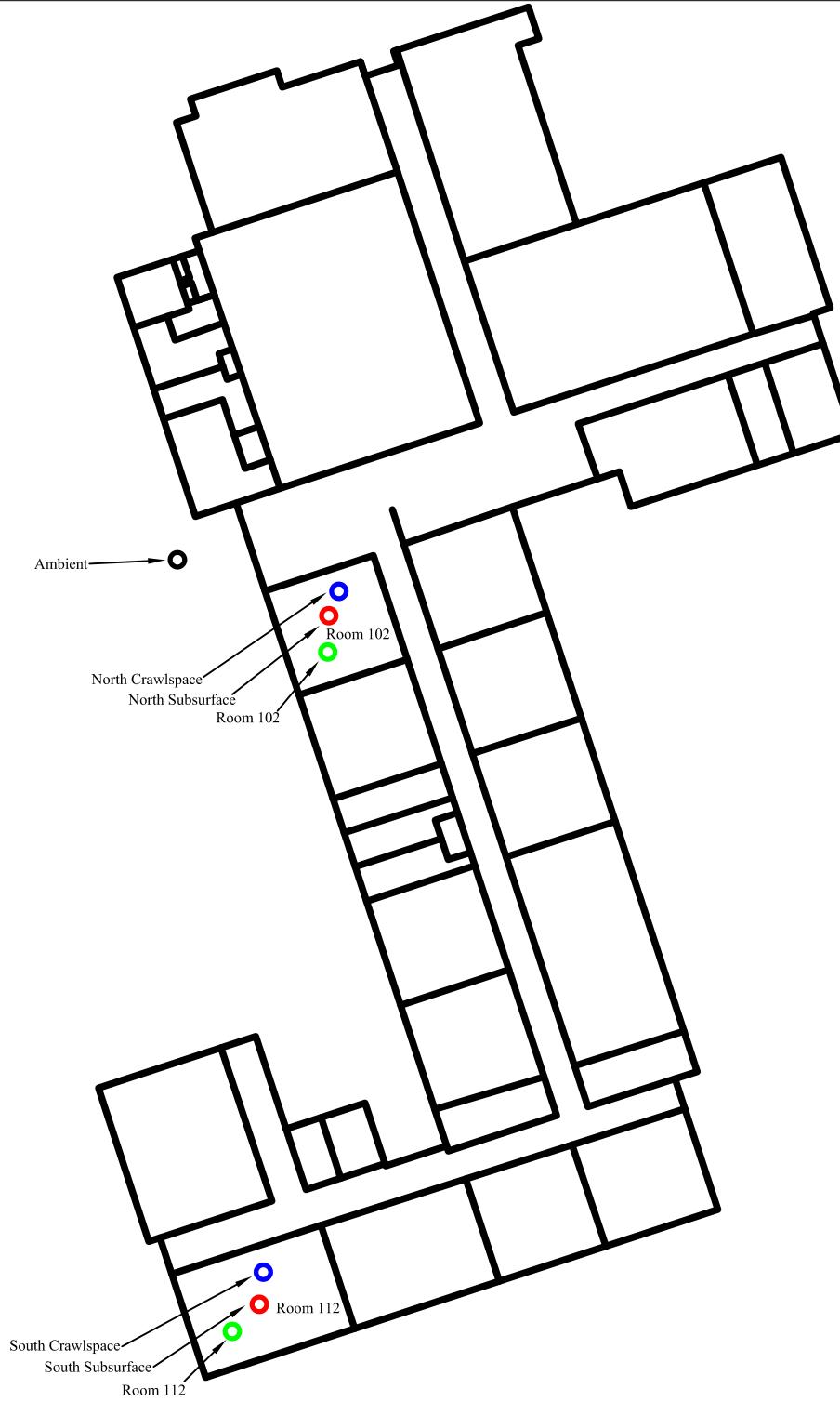
Scale Project No. Date
N.T.S. 18-39197 02-23-18

Drawn By Checked By Page No.
M.C. S.W.M. 2 of 2

Drawing No.

2

JCB LEGEND			
○	AMBIENT SAMPLING LOCATION		
○	CRAWLSPACE SAMPLING LOCATION		
○	FIRST FLOOR SAMPLING LOCATION		
○	SUBSURFACE SAMPLING LOCATION		



Appendix B

Field Photograph Logs

Sampling Locations
North Subsurface (Left) & North Crawlspace (Right)



Field Photograph Log

Volatile Vapor Intrusion Report

**Kramer Lane Elementary School
1 Kramer Lane
Plainview, New York 11803**



Photo No. 01

JCB#: 18-39197

Sampling Locations
South Crawlspace (Left) & South Subsurface (Right)



Field Photograph Log

Volatile Vapor Intrusion Report

**Kramer Lane Elementary School
1 Kramer Lane
Plainview, New York 11803**



Photo No. 02

JCB#: 18-39197

**Room 102
Sampling Location**



Field Photograph Log

Volatile Vapor Intrusion Report

**Kramer Lane Elementary School
1 Kramer Lane
Plainview, New York 11803**



Photo No. 03

JCB#: 18-39197

**Room 112
Sampling Location**



Field Photograph Log

Volatile Vapor Intrusion Report

**Kramer Lane Elementary School
1 Kramer Lane
Plainview, New York 11803**



Photo No. 04

JCB#: 18-39197

**Ambient
Sampling Location**



Field Photograph Log

Volatile Vapor Intrusion Report

**Kramer Lane Elementary School
1 Kramer Lane
Plainview, New York 11803**



Photo No. 05

JCB#: 18-39197

Appendix C

Laboratory Analysis Report



Technical Report

prepared for:

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

Report Date: 03/05/2018
Client Project ID: 18-39197
York Project (SDG) No.: 18B0991

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 03/05/2018
Client Project ID: 18-39197
York Project (SDG) No.: 18B0991

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 February 26, 2018 and listed below. The project was identified as your project: **18-39197**.

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
18B0991-01	North Subsurface	Soil Vapor	02/23/2018	02/26/2018
18B0991-02	North Crawlspace	Indoor Ambient Air	02/23/2018	02/26/2018
18B0991-03	South Subsurface	Soil Vapor	02/23/2018	02/26/2018
18B0991-04	South Crawlspace	Indoor Ambient Air	02/23/2018	02/26/2018
18B0991-05	Room 102	Indoor Ambient Air	02/23/2018	02/26/2018
18B0991-06	Room 112	Indoor Ambient Air	02/23/2018	02/26/2018
18B0991-07	Ambient	Outdoor Ambient Ai	02/23/2018	02/26/2018

General Notes for York Project (SDG) No.: 18B0991

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: 03/05/2018

Benjamin Gulizia
Laboratory Director





Sample Information

Client Sample ID: North Subsurface

York Sample ID: 18B0991-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18B0991	18-39197	Soil Vapor	February 23, 2018 3:00 pm	02/26/2018

Volatile Organics, EPA TO15 Full List

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.5	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	1.2	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.5	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.7	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	1.2	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.87	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.21	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.6	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
95-63-6	1,2,4-Trimethylbenzene	3.2		ug/m³	1.1	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.7	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	1.3	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.87	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	1.0	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.5	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
108-67-8	1,3,5-Trimethylbenzene	1.2		ug/m³	1.1	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	1.4	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	1.3	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	1.0	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	1.3	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	1.6	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
78-93-3	2-Butanone	14		ug/m³	0.64	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS



Sample Information

<u>Client Sample ID:</u> North Subsurface	<u>York Sample ID:</u>	18B0991-01
<u>York Project (SDG) No.</u> 18B0991	<u>Client Project ID</u> 18-39197	<u>Matrix</u> Soil Vapor <u>Collection Date/Time</u> February 23, 2018 3:00 pm <u>Date Received</u> 02/26/2018

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
591-78-6	* 2-Hexanone	19		ug/m³	1.8	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
107-05-1	3-Chloropropene	ND		ug/m³	3.4	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
108-10-1	4-Methyl-2-pentanone	2.9		ug/m³	0.89	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
67-64-1	Acetone	71		ug/m³	1.0	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.47	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
71-43-2	Benzene	2.0		ug/m³	0.69	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
100-44-7	Benzyl chloride	ND		ug/m³	1.1	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	1.4	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
75-25-2	Bromoform	ND		ug/m³	2.2	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
74-83-9	Bromomethane	ND		ug/m³	0.84	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
75-15-0	Carbon disulfide	1.1		ug/m³	0.67	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
56-23-5	Carbon tetrachloride	ND		ug/m³	0.34	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
108-90-7	Chlorobenzene	ND		ug/m³	0.99	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
75-00-3	Chloroethane	ND		ug/m³	0.57	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
67-66-3	Chloroform	ND		ug/m³	1.1	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
74-87-3	Chloromethane	ND		ug/m³	0.45	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.21	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.98	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
110-82-7	Cyclohexane	ND		ug/m³	0.74	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	1.8	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
75-71-8	Dichlorodifluoromethane	2.5		ug/m³	1.1	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
141-78-6	* Ethyl acetate	ND		ug/m³	1.6	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS



Sample Information

Client Sample ID: North Subsurface

York Sample ID: 18B0991-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18B0991	18-39197	Soil Vapor	February 23, 2018 3:00 pm	02/26/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	25		ug/m³	0.94	2.161	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 18:42	02/28/2018 18:42	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	2.3	2.161	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 18:42	02/28/2018 18:42	LDS
67-63-0	Isopropanol	3.6		ug/m³	1.1	2.161	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 18:42	02/28/2018 18:42	LDS
80-62-6	Methyl Methacrylate	ND		ug/m³	0.88	2.161	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 18:42	02/28/2018 18:42	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.78	2.161	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 18:42	02/28/2018 18:42	LDS
75-09-2	Methylene chloride	ND		ug/m³	1.5	2.161	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 18:42	02/28/2018 18:42	LDS
142-82-5	n-Heptane	ND		ug/m³	0.89	2.161	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 18:42	02/28/2018 18:42	LDS
110-54-3	n-Hexane	1.8		ug/m³	0.76	2.161	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 18:42	02/28/2018 18:42	LDS
95-47-6	o-Xylene	9.5		ug/m³	0.94	2.161	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 18:42	02/28/2018 18:42	LDS
179601-23-1	p- & m- Xylenes	30		ug/m³	1.9	2.161	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 18:42	02/28/2018 18:42	LDS
622-96-8	* p-Ethyltoluene	3.3		ug/m³	1.1	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
115-07-1	* Propylene	1.3		ug/m³	0.37	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
100-42-5	Styrene	1.6		ug/m³	0.92	2.161	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 18:42	02/28/2018 18:42	LDS
127-18-4	Tetrachloroethylene	1.8		ug/m³	0.37	2.161	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 18:42	02/28/2018 18:42	LDS
109-99-9	* Tetrahydrofuran	22		ug/m³	1.3	2.161	EPA TO-15 Certifications:	02/28/2018 18:42	02/28/2018 18:42	LDS
108-88-3	Toluene	920		ug/m³	8.1	21.61	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 09:55	03/01/2018 09:55	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.86	2.161	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 18:42	02/28/2018 18:42	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.98	2.161	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 18:42	02/28/2018 18:42	LDS
79-01-6	Trichloroethylene	ND		ug/m³	0.29	2.161	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 18:42	02/28/2018 18:42	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	1.5		ug/m³	1.2	2.161	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 18:42	02/28/2018 18:42	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.76	2.161	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 18:42	02/28/2018 18:42	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.95	2.161	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 18:42	02/28/2018 18:42	LDS



Sample Information

Client Sample ID: North Subsurface

York Sample ID: 18B0991-01

York Project (SDG) No.
18B0991

Client Project ID
18-39197

Matrix
Soil Vapor

Collection Date/Time
February 23, 2018 3:00 pm

Date Received
02/26/2018

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
75-01-4	Vinyl Chloride	ND		ug/m³	0.14	2.161	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 18:42	02/28/2018 18:42	LDS
Surrogate Recoveries										
Surrogate: <i>p</i> -Bromofluorobenzene										
97.2 %										
Acceptance Range										
70-130										

Helium

Sample Prepared by Method: PREP for GASES by GC

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-59-7	* Helium	ND		%	1.1	2.161	GC/TCD Certifications:	02/28/2018 17:31	02/28/2018 18:10	LDS

Sample Information

Client Sample ID: North Crawlspace

York Sample ID: 18B0991-02

York Project (SDG) No.
18B0991

Client Project ID
18-39197

Matrix
Indoor Ambient Air

Collection Date/Time
February 23, 2018 3:00 pm

Date Received
02/26/2018

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	0.37	0.533	EPA TO-15 Certifications:	02/28/2018 19:42	02/28/2018 19:42	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.29	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.41	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.29	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.053	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.40	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS



Sample Information

Client Sample ID: North Crawlspace

York Sample ID: 18B0991-02

York Project (SDG) No.

18B0991

Client Project ID

18-39197

Matrix

Indoor Ambient Air

Collection Date/Time

February 23, 2018 3:00 pm

Date Received

02/26/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.41	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	0.35	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications:	02/28/2018 19:42	02/28/2018 19:42	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	0.38	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
78-93-3	2-Butanone	0.46		ug/m³	0.16	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	0.44	0.533	EPA TO-15 Certifications:	02/28/2018 19:42	02/28/2018 19:42	LDS
107-05-1	3-Chloropropene	ND		ug/m³	0.83	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
67-64-1	Acetone	3.3		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.12	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
71-43-2	Benzene	0.27		ug/m³	0.17	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
100-44-7	Benzyl chloride	ND		ug/m³	0.28	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	0.36	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
75-25-2	Bromoform	ND		ug/m³	0.55	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS



Sample Information

Client Sample ID: North Crawlspace

York Sample ID: 18B0991-02

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18B0991	18-39197	Indoor Ambient Air	February 23, 2018 3:00 pm	02/26/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/m³	0.21	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
75-15-0	Carbon disulfide	ND		ug/m³	0.17	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
56-23-5	Carbon tetrachloride	0.23		ug/m³	0.084	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
108-90-7	Chlorobenzene	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
75-00-3	Chloroethane	ND		ug/m³	0.14	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
67-66-3	Chloroform	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
74-87-3	Chloromethane	0.62		ug/m³	0.11	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.053	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.24	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
110-82-7	Cyclohexane	ND		ug/m³	0.18	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	0.45	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
75-71-8	Dichlorodifluoromethane	1.2		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
141-78-6	* Ethyl acetate	ND		ug/m³	0.38	0.533	EPA TO-15 Certifications:	02/28/2018 19:42	02/28/2018 19:42	LDS
100-41-4	Ethyl Benzene	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.57	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
67-63-0	Isopropanol	0.75		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
80-62-6	Methyl Methacrylate	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
75-09-2	Methylene chloride	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
142-82-5	n-Heptane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
110-54-3	n-Hexane	ND		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
95-47-6	o-Xylene	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS



Sample Information

Client Sample ID: North Crawlspace

York Sample ID: 18B0991-02

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18B0991	18-39197	Indoor Ambient Air	February 23, 2018 3:00 pm	02/26/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
179601-23-1	p- & m- Xylenes	ND		ug/m³	0.46	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications:	02/28/2018 19:42	02/28/2018 19:42	LDS
115-07-1	* Propylene	0.36		ug/m³	0.092	0.533	EPA TO-15 Certifications:	02/28/2018 19:42	02/28/2018 19:42	LDS
100-42-5	Styrene	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
127-18-4	Tetrachloroethylene	ND		ug/m³	0.090	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.31	0.533	EPA TO-15 Certifications:	02/28/2018 19:42	02/28/2018 19:42	LDS
108-88-3	Toluene	0.80		ug/m³	0.20	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.21	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.24	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
79-01-6	Trichloroethylene	ND		ug/m³	0.072	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	0.84		ug/m³	0.30	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.034	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 19:42	02/28/2018 19:42	LDS
Surrogate Recoveries		Result	Acceptance Range							
460-00-4	<i>Surrogate: p-Bromofluorobenzene</i>	96.3 %				70-130				

Sample Information

Client Sample ID: South Subsurface

York Sample ID: 18B0991-03

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18B0991	18-39197	Soil Vapor	February 23, 2018 3:00 pm	02/26/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120 RESEARCH DRIVE	STRATFORD, CT 06615		■		132-02 89th AVENUE			RICHMOND HILL, NY 11418		
www.YORKLAB.com	(203) 325-1371				FAX (203) 357-0166			ClientServices@yorklab.com		



Sample Information

Client Sample ID: South Subsurface

York Sample ID:

18B0991-03

York Project (SDG) No.
18B0991

Client Project ID
18-39197

Matrix
Soil Vapor

Collection Date/Time
February 23, 2018 3:00 pm

Date Received
02/26/2018

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	1.3	1.836	EPA TO-15 Certifications:	02/28/2018 21:38	02/28/2018 21:38	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	1.0	1.836	EPA TO-15 Certifications:	02/28/2018 21:38	02/28/2018 21:38	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.3	1.836	EPA TO-15 Certifications:	02/28/2018 21:38	02/28/2018 21:38	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.4	1.836	EPA TO-15 Certifications:	02/28/2018 21:38	02/28/2018 21:38	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	1.0	1.836	EPA TO-15 Certifications:	02/28/2018 21:38	02/28/2018 21:38	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.74	1.836	EPA TO-15 Certifications:	02/28/2018 21:38	02/28/2018 21:38	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.18	1.836	EPA TO-15 Certifications:	02/28/2018 21:38	02/28/2018 21:38	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.4	1.836	EPA TO-15 Certifications:	02/28/2018 21:38	02/28/2018 21:38	LDS
95-63-6	1,2,4-Trimethylbenzene	1.3		ug/m³	0.90	1.836	EPA TO-15 Certifications:	02/28/2018 21:38	02/28/2018 21:38	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.4	1.836	EPA TO-15 Certifications:	02/28/2018 21:38	02/28/2018 21:38	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	1.1	1.836	EPA TO-15 Certifications:	02/28/2018 21:38	02/28/2018 21:38	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.74	1.836	EPA TO-15 Certifications:	02/28/2018 21:38	02/28/2018 21:38	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.85	1.836	EPA TO-15 Certifications:	02/28/2018 21:38	02/28/2018 21:38	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.3	1.836	EPA TO-15 Certifications:	02/28/2018 21:38	02/28/2018 21:38	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.90	1.836	EPA TO-15 Certifications:	02/28/2018 21:38	02/28/2018 21:38	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	1.2	1.836	EPA TO-15 Certifications:	02/28/2018 21:38	02/28/2018 21:38	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	1.1	1.836	EPA TO-15 Certifications:	02/28/2018 21:38	02/28/2018 21:38	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.85	1.836	EPA TO-15 Certifications:	02/28/2018 21:38	02/28/2018 21:38	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	1.1	1.836	EPA TO-15 Certifications:	02/28/2018 21:38	02/28/2018 21:38	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	1.3	1.836	EPA TO-15 Certifications:	02/28/2018 21:38	02/28/2018 21:38	LDS
78-93-3	2-Butanone	26		ug/m³	0.54	1.836	EPA TO-15 Certifications:	02/28/2018 21:38	02/28/2018 21:38	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	1.5	1.836	EPA TO-15 Certifications:	02/28/2018 21:38	02/28/2018 21:38	LDS



Sample Information

Client Sample ID: South Subsurface

York Sample ID: 18B0991-03

York Project (SDG) No.
18B0991

Client Project ID
18-39197

Matrix
Soil Vapor

Collection Date/Time
February 23, 2018 3:00 pm

Date Received
02/26/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	2.9	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
108-10-1	4-Methyl-2-pentanone	3.9		ug/m³	0.75	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
67-64-1	Acetone	160		ug/m³	0.87	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.40	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
71-43-2	Benzene	4.6		ug/m³	0.59	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
100-44-7	Benzyl chloride	ND		ug/m³	0.95	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	1.2	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
75-25-2	Bromoform	ND		ug/m³	1.9	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
74-83-9	Bromomethane	ND		ug/m³	0.71	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
75-15-0	Carbon disulfide	ND		ug/m³	0.57	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
56-23-5	Carbon tetrachloride	0.35		ug/m³	0.29	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
108-90-7	Chlorobenzene	ND		ug/m³	0.85	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
75-00-3	Chloroethane	ND		ug/m³	0.48	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
67-66-3	Chloroform	3.4		ug/m³	0.90	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
74-87-3	Chloromethane	0.38		ug/m³	0.38	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.18	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.83	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
110-82-7	Cyclohexane	1.3		ug/m³	0.63	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	1.6	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
75-71-8	Dichlorodifluoromethane	2.5		ug/m³	0.91	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
141-78-6	* Ethyl acetate	1.5		ug/m³	1.3	1.836	EPA TO-15 Certifications:	02/28/2018 21:38	02/28/2018 21:38	LDS
100-41-4	Ethyl Benzene	1.5		ug/m³	0.80	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS



Sample Information

Client Sample ID: South Subsurface

York Sample ID:

18B0991-03

York Project (SDG) No.

18B0991

Client Project ID

18-39197

Matrix

Soil Vapor

Collection Date/Time

February 23, 2018 3:00 pm

Date Received

02/26/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	2.0	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
67-63-0	Isopropanol	4.8		ug/m³	0.90	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
80-62-6	Methyl Methacrylate	ND		ug/m³	0.75	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.66	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
75-09-2	Methylene chloride	ND		ug/m³	1.3	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
142-82-5	n-Heptane	1.8		ug/m³	0.75	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
110-54-3	n-Hexane	5.0		ug/m³	0.65	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
95-47-6	o-Xylene	1.0		ug/m³	0.80	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
179601-23-1	p- & m- Xylenes	2.8		ug/m³	1.6	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
622-96-8	* p-Ethyltoluene	0.99		ug/m³	0.90	1.836	EPA TO-15 Certifications:	02/28/2018 21:38	02/28/2018 21:38	LDS
115-07-1	* Propylene	1.6		ug/m³	0.32	1.836	EPA TO-15 Certifications:	02/28/2018 21:38	02/28/2018 21:38	LDS
100-42-5	Styrene	ND		ug/m³	0.78	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
127-18-4	Tetrachloroethylene	0.87		ug/m³	0.31	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
109-99-9	* Tetrahydrofuran	53		ug/m³	1.1	1.836	EPA TO-15 Certifications:	02/28/2018 21:38	02/28/2018 21:38	LDS
108-88-3	Toluene	240		ug/m³	0.69	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.73	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.83	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
79-01-6	Trichloroethylene	0.39		ug/m³	0.25	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	1.8		ug/m³	1.0	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.65	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.80	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.12	1.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 21:38	02/28/2018 21:38	LDS



Sample Information

Client Sample ID: South Subsurface

York Sample ID: 18B0991-03

York Project (SDG) No.

18B0991

Client Project ID

18-39197

Matrix

Soil Vapor

Collection Date/Time

February 23, 2018 3:00 pm

Date Received

02/26/2018

Helium

Sample Prepared by Method: PREP for GASES by GC

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-59-7	* Helium	ND		%	0.92	1.836	GC/TCD Certifications:	02/28/2018 17:31	02/28/2018 18:14	LDS

Sample Information

Client Sample ID: South Crawlspace

York Sample ID: 18B0991-04

York Project (SDG) No.

18B0991

Client Project ID

18-39197

Matrix

Indoor Ambient Air

Collection Date/Time

February 23, 2018 3:00 pm

Date Received

02/26/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications:	02/28/2018 22:39	02/28/2018 22:39	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.29	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.41	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.29	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.053	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.40	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.41	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS



Sample Information

Client Sample ID: South Crawlspace

York Sample ID: 18B0991-04

York Project (SDG) No.

18B0991

Client Project ID

18-39197

Matrix

Indoor Ambient Air

Collection Date/Time

February 23, 2018 3:00 pm

Date Received

02/26/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	0.37	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m ³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
106-99-0	1,3-Butadiene	ND		ug/m ³	0.35	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.25	0.533	EPA TO-15 Certifications:	02/28/2018 22:39	02/28/2018 22:39	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
123-91-1	1,4-Dioxane	ND		ug/m ³	0.38	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
78-93-3	2-Butanone	0.20		ug/m ³	0.16	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
591-78-6	* 2-Hexanone	2.9		ug/m ³	0.44	0.533	EPA TO-15 Certifications:	02/28/2018 22:39	02/28/2018 22:39	LDS
107-05-1	3-Chloropropene	ND		ug/m ³	0.83	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
67-64-1	Acetone	1.7		ug/m ³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
107-13-1	Acrylonitrile	ND		ug/m ³	0.12	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
71-43-2	Benzene	ND		ug/m ³	0.17	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
100-44-7	Benzyl chloride	ND		ug/m ³	0.28	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
75-27-4	Bromodichloromethane	ND		ug/m ³	0.36	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
75-25-2	Bromoform	ND		ug/m ³	0.55	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
74-83-9	Bromomethane	ND		ug/m ³	0.21	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
75-15-0	Carbon disulfide	ND		ug/m ³	0.17	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
56-23-5	Carbon tetrachloride	0.10		ug/m ³	0.084	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
108-90-7	Chlorobenzene	ND		ug/m ³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
75-00-3	Chloroethane	ND		ug/m ³	0.14	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS



Sample Information

Client Sample ID: South Crawlspace

York Sample ID: 18B0991-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18B0991	18-39197	Indoor Ambient Air	February 23, 2018 3:00 pm	02/26/2018

Volatile Organics, EPA TO15 Full List

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
67-66-3	Chloroform	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
74-87-3	Chloromethane	0.34		ug/m³	0.11	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.053	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.24	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
110-82-7	Cyclohexane	ND		ug/m³	0.18	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	0.45	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
75-71-8	Dichlorodifluoromethane	0.58		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
141-78-6	* Ethyl acetate	ND		ug/m³	0.38	0.533	EPA TO-15 Certifications:	02/28/2018 22:39	02/28/2018 22:39	LDS
100-41-4	Ethyl Benzene	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.57	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
67-63-0	Isopropanol	0.42		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
80-62-6	Methyl Methacrylate	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
75-09-2	Methylene chloride	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
142-82-5	n-Heptane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
110-54-3	n-Hexane	ND		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
95-47-6	o-Xylene	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
179601-23-1	p- & m- Xylenes	ND		ug/m³	0.46	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications:	02/28/2018 22:39	02/28/2018 22:39	LDS
115-07-1	* Propylene	0.18		ug/m³	0.092	0.533	EPA TO-15 Certifications:	02/28/2018 22:39	02/28/2018 22:39	LDS
100-42-5	Styrene	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS
127-18-4	Tetrachloroethylene	ND		ug/m³	0.090	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS



Sample Information

Client Sample ID: South Crawlspace

York Sample ID: 18B0991-04

York Project (SDG) No.

18B0991

Client Project ID

18-39197

Matrix

Indoor Ambient Air

Collection Date/Time

February 23, 2018 3:00 pm

Date Received

02/26/2018

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		
109-99-9	* Tetrahydrofuran	ND		ug/m ³	0.31	0.533	EPA TO-15 Certifications:	02/28/2018 22:39	02/28/2018 22:39	LDS		
108-88-3	Toluene	0.50		ug/m ³	0.20	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.21	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.24	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS		
79-01-6	Trichloroethylene	ND		ug/m ³	0.072	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS		
75-69-4	Trichlorofluoromethane (Freon 11)	0.39		ug/m ³	0.30	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS		
108-05-4	Vinyl acetate	ND		ug/m ³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS		
593-60-2	Vinyl bromide	ND		ug/m ³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS		
75-01-4	Vinyl Chloride	ND		ug/m ³	0.034	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 22:39	02/28/2018 22:39	LDS		
Surrogate Recoveries		Result	Acceptance Range									
460-00-4	Surrogate: p-Bromofluorobenzene	96.9 %			70-130							

Sample Information

Client Sample ID: Room 102

York Sample ID: 18B0991-05

York Project (SDG) No.

18B0991

Client Project ID

18-39197

Matrix

Indoor Ambient Air

Collection Date/Time

February 23, 2018 3:00 pm

Date Received

02/26/2018

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/m ³	0.37	0.533	EPA TO-15 Certifications:	02/28/2018 23:39	02/28/2018 23:39	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	0.29	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	0.37	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	0.41	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.29	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS



Sample Information

Client Sample ID: Room 102

York Sample ID: 18B0991-05

York Project (SDG) No.

18B0991

Client Project ID

18-39197

Matrix

Indoor Ambient Air

Collection Date/Time

February 23, 2018 3:00 pm

Date Received

02/26/2018

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
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.053	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.40	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.41	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
76-14-2	1,2-Dichlortetrafluoroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	0.35	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications:	02/28/2018 23:39	02/28/2018 23:39	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	0.38	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
78-93-3	2-Butanone	0.33		ug/m³	0.16	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	0.44	0.533	EPA TO-15 Certifications:	02/28/2018 23:39	02/28/2018 23:39	LDS
107-05-1	3-Chloropropene	ND		ug/m³	0.83	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
67-64-1	Acetone	2.7		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.12	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
71-43-2	Benzene	0.27		ug/m³	0.17	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS



Sample Information

Client Sample ID: Room 102

York Sample ID: 18B0991-05

York Project (SDG) No.

18B0991

Client Project ID

18-39197

Matrix

Indoor Ambient Air

Collection Date/Time

February 23, 2018 3:00 pm

Date Received

02/26/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-44-7	Benzyl chloride	ND		ug/m³	0.28	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	0.36	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
75-25-2	Bromoform	ND		ug/m³	0.55	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
74-83-9	Bromomethane	ND		ug/m³	0.21	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
75-15-0	Carbon disulfide	ND		ug/m³	0.17	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
56-23-5	Carbon tetrachloride	0.27		ug/m³	0.084	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
108-90-7	Chlorobenzene	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
75-00-3	Chloroethane	ND		ug/m³	0.14	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
67-66-3	Chloroform	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
74-87-3	Chloromethane	0.50		ug/m³	0.11	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.053	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.24	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
110-82-7	Cyclohexane	ND		ug/m³	0.18	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	0.45	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
75-71-8	Dichlorodifluoromethane	1.3		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
141-78-6	* Ethyl acetate	ND		ug/m³	0.38	0.533	EPA TO-15 Certifications:	02/28/2018 23:39	02/28/2018 23:39	LDS
100-41-4	Ethyl Benzene	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.57	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
67-63-0	Isopropanol	0.96		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
80-62-6	Methyl Methacrylate	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
75-09-2	Methylene chloride	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS



Sample Information

Client Sample ID: Room 102

York Sample ID: 18B0991-05

York Project (SDG) No.
18B0991

Client Project ID
18-39197

Matrix
Indoor Ambient Air

Collection Date/Time
February 23, 2018 3:00 pm

Date Received
02/26/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
142-82-5	n-Heptane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
110-54-3	n-Hexane	ND		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
95-47-6	o-Xylene	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
179601-23-1	p- & m- Xylenes	0.56		ug/m³	0.46	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications:	02/28/2018 23:39	02/28/2018 23:39	LDS
115-07-1	* Propylene	0.37		ug/m³	0.092	0.533	EPA TO-15 Certifications:	02/28/2018 23:39	02/28/2018 23:39	LDS
100-42-5	Styrene	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
127-18-4	Tetrachloroethylene	ND		ug/m³	0.090	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.31	0.533	EPA TO-15 Certifications:	02/28/2018 23:39	02/28/2018 23:39	LDS
108-88-3	Toluene	0.80		ug/m³	0.20	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.21	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.24	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
79-01-6	Trichloroethylene	0.086		ug/m³	0.072	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	0.84		ug/m³	0.30	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.034	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 23:39	02/28/2018 23:39	LDS
Surrogate Recoveries		Result	Acceptance Range							
460-00-4	Surrogate: p-Bromofluorobenzene	94.8 %	70-130							



Sample Information

Client Sample ID: Room 112

York Sample ID: 18B0991-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18B0991	18-39197	Indoor Ambient Air	February 23, 2018 3:00 pm	02/26/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications:	03/01/2018 00:40	03/01/2018 00:40	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.29	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.41	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.29	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.053	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.40	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.41	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
76-14-2	1,2-Dichlortetrafluoroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	0.35	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications:	03/01/2018 00:40	03/01/2018 00:40	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	0.38	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
78-93-3	2-Butanone	0.24		ug/m³	0.16	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
591-78-6	* 2-Hexanone	9.2		ug/m³	0.44	0.533	EPA TO-15 Certifications:	03/01/2018 00:40	03/01/2018 00:40	LDS



Sample Information

Client Sample ID: Room 112

York Sample ID: 18B0991-06

York Project (SDG) No.

18B0991

Client Project ID

18-39197

Matrix

Indoor Ambient Air

Collection Date/Time

February 23, 2018 3:00 pm

Date Received

02/26/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	0.83	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
67-64-1	Acetone	2.1		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.12	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
71-43-2	Benzene	0.26		ug/m³	0.17	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
100-44-7	Benzyl chloride	ND		ug/m³	0.28	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	0.36	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
75-25-2	Bromoform	ND		ug/m³	0.55	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
74-83-9	Bromomethane	ND		ug/m³	0.21	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
75-15-0	Carbon disulfide	ND		ug/m³	0.17	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
56-23-5	Carbon tetrachloride	0.27		ug/m³	0.084	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
108-90-7	Chlorobenzene	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
75-00-3	Chloroethane	ND		ug/m³	0.14	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
67-66-3	Chloroform	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
74-87-3	Chloromethane	0.55		ug/m³	0.11	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.053	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.24	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
110-82-7	Cyclohexane	ND		ug/m³	0.18	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	0.45	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
75-71-8	Dichlorodifluoromethane	1.4		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
141-78-6	* Ethyl acetate	ND		ug/m³	0.38	0.533	EPA TO-15 Certifications:	03/01/2018 00:40	03/01/2018 00:40	LDS
100-41-4	Ethyl Benzene	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS



Sample Information

Client Sample ID: Room 112

York Sample ID:

18B0991-06

York Project (SDG) No.

18B0991

Client Project ID

18-39197

Matrix

Indoor Ambient Air

Collection Date/Time

February 23, 2018 3:00 pm

Date Received

02/26/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.57	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
67-63-0	Isopropanol	1.2		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
80-62-6	Methyl Methacrylate	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
75-09-2	Methylene chloride	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
142-82-5	n-Heptane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
110-54-3	n-Hexane	ND		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
95-47-6	o-Xylene	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
179601-23-1	p- & m- Xylenes	ND		ug/m³	0.46	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications:	03/01/2018 00:40	03/01/2018 00:40	LDS
115-07-1	* Propylene	0.34		ug/m³	0.092	0.533	EPA TO-15 Certifications:	03/01/2018 00:40	03/01/2018 00:40	LDS
100-42-5	Styrene	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
127-18-4	Tetrachloroethylene	ND		ug/m³	0.090	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.31	0.533	EPA TO-15 Certifications:	03/01/2018 00:40	03/01/2018 00:40	LDS
108-88-3	Toluene	0.60		ug/m³	0.20	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.21	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.24	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
79-01-6	Trichloroethylene	ND		ug/m³	0.072	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	0.93		ug/m³	0.30	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.034	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 00:40	03/01/2018 00:40	LDS



Sample Information

Client Sample ID: Room 112		York Sample ID: 18B0991-06
<u>York Project (SDG) No.</u> 18B0991	<u>Client Project ID</u> 18-39197	<u>Matrix</u> Indoor Ambient Air <u>Collection Date/Time</u> February 23, 2018 3:00 pm <u>Date Received</u> 02/26/2018

Volatile Organics, EPA TO15 Full List

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
Surrogate Recoveries										
<i>Surrogate: p-Bromofluorobenzene</i>										
94.3 %										
70-130										

Sample Information

Client Sample ID: Ambient		York Sample ID: 18B0991-07
<u>York Project (SDG) No.</u> 18B0991	<u>Client Project ID</u> 18-39197	<u>Matrix</u> Outdoor Ambient Air <u>Collection Date/Time</u> February 23, 2018 3:00 pm <u>Date Received</u> 02/26/2018

Volatile Organics, EPA TO15 Full List

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	0.37	0.533	EPA TO-15 Certifications:	03/01/2018 01:41	03/01/2018 01:41	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.29	0.533	EPA TO-15 Certifications:	03/01/2018 01:41	03/01/2018 01:41	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications:	03/01/2018 01:41	03/01/2018 01:41	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.41	0.533	EPA TO-15 Certifications:	03/01/2018 01:41	03/01/2018 01:41	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.29	0.533	EPA TO-15 Certifications:	03/01/2018 01:41	03/01/2018 01:41	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications:	03/01/2018 01:41	03/01/2018 01:41	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.053	0.533	EPA TO-15 Certifications:	03/01/2018 01:41	03/01/2018 01:41	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.40	0.533	EPA TO-15 Certifications:	03/01/2018 01:41	03/01/2018 01:41	LDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications:	03/01/2018 01:41	03/01/2018 01:41	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.41	0.533	EPA TO-15 Certifications:	03/01/2018 01:41	03/01/2018 01:41	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications:	03/01/2018 01:41	03/01/2018 01:41	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications:	03/01/2018 01:41	03/01/2018 01:41	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications:	03/01/2018 01:41	03/01/2018 01:41	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications:	03/01/2018 01:41	03/01/2018 01:41	LDS
NELAC-NY12058,NJDEP-Queens										



Sample Information

Client Sample ID: Ambient

York Sample ID: 18B0991-07

York Project (SDG) No.

18B0991

Client Project ID

18-39197

Matrix

Outdoor Ambient Air

Collection Date/Time

February 23, 2018 3:00 pm

Date Received

02/26/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	0.35	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications:	03/01/2018 01:41	03/01/2018 01:41	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	0.38	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
78-93-3	2-Butanone	0.22		ug/m³	0.16	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	0.44	0.533	EPA TO-15 Certifications:	03/01/2018 01:41	03/01/2018 01:41	LDS
107-05-1	3-Chloropropene	ND		ug/m³	0.83	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
67-64-1	Acetone	1.8		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.12	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
71-43-2	Benzene	0.22		ug/m³	0.17	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
100-44-7	Benzyl chloride	ND		ug/m³	0.28	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	0.36	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
75-25-2	Bromoform	ND		ug/m³	0.55	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
74-83-9	Bromomethane	ND		ug/m³	0.21	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
75-15-0	Carbon disulfide	ND		ug/m³	0.17	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
56-23-5	Carbon tetrachloride	0.23		ug/m³	0.084	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
108-90-7	Chlorobenzene	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
75-00-3	Chloroethane	ND		ug/m³	0.14	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
67-66-3	Chloroform	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS



Sample Information

Client Sample ID: Ambient

York Sample ID: 18B0991-07

York Project (SDG) No.

18B0991

Client Project ID

18-39197

Matrix

Outdoor Ambient Air

Collection Date/Time

February 23, 2018 3:00 pm

Date Received

02/26/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	0.52		ug/m³	0.11	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.053	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.24	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
110-82-7	Cyclohexane	ND		ug/m³	0.18	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	0.45	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
75-71-8	Dichlorodifluoromethane	1.3		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
141-78-6	* Ethyl acetate	ND		ug/m³	0.38	0.533	EPA TO-15 Certifications:	03/01/2018 01:41	03/01/2018 01:41	LDS
100-41-4	Ethyl Benzene	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.57	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
67-63-0	Isopropanol	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
80-62-6	Methyl Methacrylate	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
75-09-2	Methylene chloride	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
142-82-5	n-Heptane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
110-54-3	n-Hexane	ND		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
95-47-6	o-Xylene	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
179601-23-1	p- & m- Xylenes	ND		ug/m³	0.46	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications:	03/01/2018 01:41	03/01/2018 01:41	LDS
115-07-1	* Propylene	0.31		ug/m³	0.092	0.533	EPA TO-15 Certifications:	03/01/2018 01:41	03/01/2018 01:41	LDS
100-42-5	Styrene	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
127-18-4	Tetrachloroethylene	ND		ug/m³	0.090	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.31	0.533	EPA TO-15 Certifications:	03/01/2018 01:41	03/01/2018 01:41	LDS



Sample Information

<u>Client Sample ID:</u> Ambient		<u>York Sample ID:</u> 18B0991-07
<u>York Project (SDG) No.</u> 18B0991	<u>Client Project ID</u> 18-39197	<u>Matrix</u> Outdoor Ambient Air <u>Collection Date/Time</u> February 23, 2018 3:00 pm <u>Date Received</u> 02/26/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	Toluene	0.26		ug/m³	0.20	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.21	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.24	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
79-01-6	Trichloroethylene	ND		ug/m³	0.072	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	0.84		ug/m³	0.30	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.034	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/01/2018 01:41	03/01/2018 01:41	LDS
Surrogate Recoveries		Result	Acceptance Range							
460-00-4	Surrogate: p-Bromofluorobenzene	95.8 %	70-130							





Sample and Data Qualifiers Relating to This Work Order

QL-03 This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.

CCV-A The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>30% Difference for average Rf). This applies to dectected analytes only.

Definitions and Other Explanations

* Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.

ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

LOQ LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence . This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.

LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.

MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.

Reported to This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

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

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

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

Certification for pH is no longer offered by NYDOH ELAP.

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



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



YORK
ANALYTICAL LABORATORIES INC.

Field Chain-of-Custody Record - AIR

Page ____ of ____

York Project No. 18B0991

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.

This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

YOUR Information		Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverables
Company: <u>JCB BRODICK ASSOC</u>	Company: <u>JCS</u>	Company: <u>JCB</u>		<u>18-39197</u>	RUSH - Same Day <input type="checkbox"/>	Summary Report <input checked="" type="checkbox"/>
Address: <u>1775 EXPRESS DR. N</u>	Address: _____	Address: _____			RUSH - Next Day <input type="checkbox"/>	Summary w/ QA Summary <input checked="" type="checkbox"/>
<u>HARLEM, NY 11788</u>					RUSH - Two Day <input type="checkbox"/>	CT RCP Package <input type="checkbox"/>
Phone No. <u>631-584-5492</u>	Phone No. _____	Phone No. _____			RUSH - Three Day <input type="checkbox"/>	NY ASP A Package <input type="checkbox"/>
Contact Person: <u>S. MULLEN</u>	Attention: _____	Attention: _____			RUSH - Four Day <input type="checkbox"/>	NY ASP B/CLP Pkg <input type="checkbox"/>
E-Mail Address: <u>SIMULINE.JCBRODICK.COM</u>	E-Mail Address: _____	E-Mail Address: _____	Samples from: CT <input type="checkbox"/> NY <input checked="" type="checkbox"/> NJ <input type="checkbox"/>	Standard(5-7 Days) <input checked="" type="checkbox"/>		NJDEP Reduced <input type="checkbox"/>

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.

Samples Collected/Authorized By (Signature)
STEVEN MULLEN
 Name (printed)

Air Matrix Codes

- AI - INDOOR Ambient Air
- AO - OUTDOOR Amb. Air
- AE - Vapor Extraction Well/ Process Gas/Effluent
- AS - SOIL Vapor/Sub-Slab

Additional Notes:

Please enter the following Field Data

Detection Limits Required

≤ 1 ug/m³

NYSDEC VI Limits

(VI =vapor intrusion)

NJDEP low level

Routine Survey

Other _____

Special Instructions

Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Canister ID	Flow Cont.ID	ANALYSES REQUESTED	Sampling Media
North Subsurface	2/23/18	AS	30	13	28844	444	TO-15 + He	6 Liter canister Tedlar Bag <input checked="" type="checkbox"/>
North Crawlspace	2/23/18	AI	30	10	28849	5607	TO-15	6 Liter canister Tedlar Bag <input checked="" type="checkbox"/>
South Subsurface	2/23/18	AS	30	10	28848	7420	TO-15 + He	6 Liter canister Tedlar Bag <input checked="" type="checkbox"/>
South Crawlspace	2/23/18	AI	30	21	28857	5628	TO-15	6 Liter canister Tedlar Bag <input checked="" type="checkbox"/>
Room 102	2/23/18	AI	30	8	28845	5610	TO-15	6 Liter canister Tedlar Bag <input checked="" type="checkbox"/>
Room 112	2/23/18	AI	30	6	28837	5122	TO-15	6 Liter canister Tedlar Bag <input checked="" type="checkbox"/>
Ambient	2/23/18	AO	30	9	28838	6861	TO-15	6 Liter canister Tedlar Bag <input checked="" type="checkbox"/>
								6 Liter canister Tedlar Bag <input type="checkbox"/>
								6 Liter canister Tedlar Bag <input type="checkbox"/>
								6 Liter canister Tedlar Bag <input type="checkbox"/>
								6 Liter canister Tedlar Bag <input type="checkbox"/>
								6 Liter canister Tedlar Bag <input type="checkbox"/>

Comments

KRAMER ES
 1 KRAMER LANE
 PLAINVIEW, NY

 Samples Relinquished By <u>John Hahn</u> Samples Relinquished By <u>John Hahn</u>	2/26/18 2:10 pm Date/Time <u>4:05 pm</u>	 Samples Received By <u>John Hahn</u> Samples Received By <u>John Hahn</u>	2/26/18 2:10 pm Date/Time <u>1630</u>
	Date/Time		Date/Time