VOLATILE VAPOR INTRUSION (VVI)
AND
GROUNDWATER ANALYTICAL REPORT
WITH RADON TESTING

BETHPAGE HIGH SCHOOL
10 CHERRY AVENUE
BETHPAGE, NEW YORK 11714

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

JCB PROJECT #: 16-35984
MAY 2017

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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) as a result of the contamination emanating from the Bethpage Community Park site. JCB performed VVI air sampling within the Bethpage High School. 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.

During this sampling period, JCB also collected groundwater samples from the monitoring wells installed in the parking lot at the high school

Section No. 2.0: Site Description and Location

The Subject Site is located at 10 Cherry Avenue Bethpage, New York 11714. The Subject Site is located on the southeast corner of the intersection formed by Stewart and Cherry Avenues. According to the United States Geological Survey (USGS) *Huntington, New York, 1992* 7.5 Minute Series Topographical Map, the Subject Site is situated at an approximate elevation of 121 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) was followed during the volatile vapor intrusion evaluations. The following sections describe the procedures taken.

Section No. 3.1: Pre-Work Field Preparations

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

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

Section No. 3.2: Subsurface Vapor Sample Collection

The following summarizes the manner in which subsurface vapor samples were collected. Please refer to Figure No. 2 - Subsurface, Crawlspace and Basement Sample 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, 1-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 22, 2017, a total of two (2) subsurface vapor samples were collected.

  - One (1) subsurface sample was collected from beneath the north end of the west crawlspace under the west side school entrance.

  - One (1) subsurface sample was collected from beneath the south end of the west crawlspace under the southwest cafeteria “A”.

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, 1-liter SUMMA® canisters, provided by YORK Analytical Labs, Inc. (YORK) equipped with a flow controller pre-set for an eight (8) hour long sample duration. As per the guidance requirements, the samples were collected at a height approximately three (3) feet above the floor to represent a height at which occupants are normally seated.

Section No. 3.3.1: Crawlspace/Basement Air Sample Collection

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

- On February 22, 2017, a total of two (2) crawlspace and one (1) basement air samples were collected.
  - One (1) air sample was collected from the north end of the west crawlspace under the west side school entrance.
  - One (1) air sample was collected from the south end of the west crawlspace under the south west cafeteria.
  - One (1) air sample was collected from the intersection of the two (2) hallways in the basement of the administration building.

Section No. 3.3.2: 1st Floor Air Sample Collection

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

- On February 22, 2017, one (1) first floor air sample was collected.
  - One (1) air sample was collected from within Cafeteria-A located in the southwest corner of the high 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, 1-liter SUMMA® canister, provided by YORK Analytical Labs, Inc. (YORK) equipped with a flow controller pre-set for an eight (8) hour sample duration. As per the guidance requirements, the sample was collected at a height approximately three (3) feet above the floor. Please refer to Figure No. 3 - 1st Floor and Ambient Sample Locations for additional details.

- On February 22, 2017, one (1) outdoor (ambient) air sample was collected.
  - One (1) air sample was collected from outside the west side of the high school building adjacent to Classroom Number 117.

Section No. 4.0: Laboratory Analytical Summary

The air samples were collected into laboratory supplied, clean-certified, 1-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 Labs, Inc. (York) 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.

The following table summarizes the Air Sampling 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	North Subsurface[1] 2017	South Subsurface[1] 2017	North Crawlspace 2017	South Crawlspace 2017	1st Floor Cafeteria "A" 2016	Admin Basement 2017	Ambient 2017
TO-15 List	**µg/m³**	**µg/m³**	**µg/m³**	**µg/m³**	**µg/m³**	**µg/m³**	**µg/m³**	**µg/m³**
1,1,1-Trichloroethane (TCA)	3.1	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	9.5	14	ND	ND	ND	ND	0.72	ND
Acetone	110	630	530	7.5	8.4	4.5	16	5.8
Benzene	15	10	11	0.36	0.38	0.61	0.51	0.35
Carbon Tetrachloride	0.8	ND	ND	0.39	ND	0.4	0.38	0.31
Chloromethane	3.3	ND	ND	1.3	1.2	1.3	1.3	1.2
Ethyl Benzene	7.4	35	21	ND	ND	ND	0.58	ND
o-Xylene	7.6	21	ND	ND	ND	ND	0.58	ND
p- & m-Xylene	12	90	37	ND	ND	ND	1.9	ND
Trichlorofluoromethane (Freon 11)	17	ND	ND	1.8	2.3	1.8	**24**	2.0
Trichlorotrifluoroethane (Freon 113)	NA	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)	15	ND	ND	2.1	2.0	2.0	4.6	1.9
Hexane	18	12	8.3	ND	ND	ND	ND	ND
Methylene Chloride	22	ND	ND	ND	1.3	ND	1.0	ND
p-Ethyltoluene	NA	27	ND	ND	ND	ND	0.72	ND
Propylene	NA	ND	ND	0.69	ND	ND	ND	ND
Tetrachloroethene (PCE)	2.9	5.3	13	0.28	ND	0.22	0.66	0.34
Tetrahydrofuran	3.3	75	99	ND	ND	ND	ND	ND
Toluene	58	2,800	1,800	0.96	0.83	0.48	4.2	0.45
Trichloroethene (TCE)	0.5	6.3	ND	ND	ND	ND	ND	ND

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 of Fuel Oil Heated Homes 90th Percentile
[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 1 & 2. - See Section 5.0 and Table No. 2 for additional information.

Section No. 5.0: Decision Matrices

Decision matrices are risk management tools developed by the NYSDOH to provide guidance on a cases-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 two (2) 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 2	No Further Action
Carbon Tetrachloride	Matrix 1	Take reasonable and practical actions to identify source
Tetrachloroethene (PCE)	Matrix 2	No Further Action
Trichloroethene (TCE)	Matrix 1	No Further Action
1,1-dichloroethene	Matrix 2	No Further Action
Cis 1,2-dichloroethene	Matrix 2	No Further Action
Vinyl Chloride	Matrix 1	No Further Action

Notes: Only six (6) chemicals have been assigned to decision matrices by the NYSDOH to date.

The results of the matrices indicate that "No Further Action" is required for 1,1,1-Trichloroethane, Tetrachloroethene, Trichloroethene, 1,1-dichloroethene, Cis 1,2-dichloroethene, and Vinyl Chloride. That is, given that the compound was not detected in the indoor air sample and that the concentration detected in the sub-slab vapor sample is not expected to significantly affect indoor air quality, no additional actions are needed to address human exposures.

The results of the matrices indicate that "Take reasonable and practical actions to identify source(s) and reduce exposures" is required for Carbon Tetrachloride. That is, the concentration detected in the indoor air sample is likely due to indoor and/or outdoor sources rather than soil vapor intrusion given the concentration detected in the sub-slab sample.

Section No. 6.0: Groundwater Sampling and Analysis

On February 22, 2017, the three (3) on-site monitoring wells were checked for the presence of Light Non-Aqueous Phase Liquid (LNAPL) and depth to the groundwater table utilizing a Solinst® Model 122 Product/Water Interface Meter to the nearest 0.01 ft. At the time of the monitoring, groundwater was not encountered in any of the monitoring wells. It is highly unusual for the groundwater table to drop over four (4) feet, year to date.

The following table summarizes the survey and groundwater data:

Table No. 3:
Depth to Groundwater Gauged with Interface Meter

Well Number	Depth to Product (ft)	Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)
MW-1	Not Measured	118.83	>58.28	Not Measured
MW-2	Not Measured	119.18	>59.50	Not Measured
MW-3	Not Measured	119.18	>57.31	Not Measured

Notes:
ft = Feet

As a result of the lowered groundwater table, on February 24, 2017, JCB mobilized a track-mounted Geoprobe® Model 7822DT equipped with a Screen Point 16 (SP-16) Groundwater Sampler. The groundwater sampler was deployed exposing its screen interval between 60 and 64 feet below surface grade adjacent to monitoring well locations MW-1, MW-2, and MW-3. Prior to sampling, the casing volume of the groundwater sampler was calculated and a minimum of three (3) volumes of water was purged.

The following table summarizes the groundwater samples submitted for laboratory analysis:

Table No. 4:
Summary of Groundwater Samples Submitted for Laboratory Analysis

Sample ID#	Date Sampled	Description of Sample	Analysis Method
MW-1	02-24-17	Adjacent to Monitoring Well No. 1	EPA 524.2 List w/ Freon 11, 12, & 22 EPA 903.0 & 904 for Barium 226 & 228
MW-2	02-24-17	Adjacent to Monitoring Well No. 2	EPA 524.2 List w/ Freon 11, 12, & 22 EPA 903.0 & 904 for Barium 226 & 228
MW-3	02-24-17	Adjacent to Monitoring Well No. 3	EPA 524.2 List w/ Freon 11, 12, & 22 EPA 903.0 & 904 for Barium 226 & 228

Notes:
EPA = Environmental Protection Agency

Section No. 7.0: Groundwater Laboratory Analytical Summary

Groundwater samples selected for laboratory analysis were placed into laboratory supplied containers, assigned individual identification numbers and then placed into an appropriately conditioned cooler. 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.

Groundwater samples submitted for laboratory analysis were analyzed for Volatile Organic Compounds (VOCs) utilizing Environmental Protection Agency (EPA) Method 524.2 List and EPA 903.0 and EPA 904 for Barium 226 and Barium 228.

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

The laboratory analytical results for the groundwater sample was reviewed and compared to Table No. 1 of the *Ambient Water Quality Standards and Guidance Values of the New York State Department of Environmental Conservation, Division of Water, Technical and Operational Guidance Series (TOGS) (1.1.1).*

The following table summarizes the Groundwater Analytical Results:

Table No. 5:
Summary of Groundwater Samples Analysis Results

Client Sample ID	Allowable Standards	MW-1			MW-2			MW-3		
EPA 524.2 Volatiles List	µg/L	11/7/15	2/19/16	2/24/17	11/7/15	2/19/16	2/24/17	11/7/15	2/19/16	2/24/17
Benzene	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butyl-Benzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butyl-Benzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	0.30
Chloromethane (Methyl Chloride)	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2- Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4- Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3- Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon® 12)	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl-tert-butyl ether (MtBE)	10	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table No. 5:
Summary of Groundwater Samples Analysis Results

Client Sample ID	Allowable Standards	MW-1			MW-2			MW-3		
EPA 524.2 Volatiles List	µg/L	11/7/15	2/19/16	2/24/17	11/7/15	2/19/16	2/24/17	11/7/15	2/19/16	2/24/17
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	**6.1**	ND	ND	1.9	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon® 11)	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
p- & m- Xylenes	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodifluoromethane (Freon® 22)	N/A	ND	ND	ND	24	1.9	0.90	0.9	1.4	3.8
Radium 226 (pCi/L)	3.0	NT	NT	**5.29**	NT	NT	**7.52**	NT	NT	**3.73**
Radium 228 (pCi/L)	5.0	NT	NT	**10.43**	NT	NT	**17.22**	NT	NT	**6.73**

Notes:
µg/L = parts per billion
pCi/L = picocuries per liter
N/A = Guidance Value Not Established by the New York State Department of Environmental Conservation at the time of this report
ND = Not Detected
NT = Not Analyzed For

The laboratory analysis results from the groundwater sample submitted from MW-1 did reveal an elevated concentration of one (1) VOCs, Toluene, exceeding the above referenced guidance value established by the New York State Department of Environmental Conservation (NYSDEC) regarding this compound.

The laboratory analysis results from the groundwater samples submitted from MW-2 and MW-3 did not reveal any elevated concentrations of VOCs, Freon® 11 or Freon® 12 exceeding the above referenced guidance values.

The laboratory analysis results from the groundwater samples submitted from MW-2 and MW-3 did reveal detectable concentrations of Freon® 22; however, no guidance value has been established by the New York State Department of Environmental Conservation (NYSDEC) regarding this compound.

The laboratory analysis results from the groundwater samples submitted from MW-1, MW-2 and MW-3 did reveal elevated concentrations of Radium 226 and Radium 228 above the guidance values established by the NYSDEC regarding these compound.

Section No. 8.0: Radon Sampling and Analysis

The detection of Radium 226 and 228 in the groundwater at all three (3) sampling locations prompted the sampling and analysis of Radon within the Administration and High School buildings. On April 12, 2017, JCB set up short term Radon in Air test kits in eighteen (18) rooms and spaces within the basement of the administration building and High School building that were in contact with the ground. The sampling devices were collected on April 17, 2017 after five days of exposure.

The following table summarizes the Radon samples submitted for laboratory analysis:

Table No. 6:
Summary of Radon Samples Submitted for Laboratory Analysis

Sample ID#	Sample Start Date	Sample End Date	Description of Sample	Analysis Method
Rm 001	04-12-17	04-17-17	Admin Basement Storage Room	Radon in Air
Rm 002	04-12-17	04-17-17	Admin Basement Storage Room	Radon in Air
Rm 004	04-12-17	04-17-17	Admin Copy Center	Radon in Air
Rm 006	04-12-17	04-17-17	Admin Basement Storage Room	Radon in Air
Rm 007	04-12-17	04-17-17	Admin Basement Storage Room	Radon in Air
Rm 008	04-12-17	04-17-17	Admin Basement Storage Room	Radon in Air
Hall 013	04-12-17	04-17-17	Admin Basement Hallway	Radon in Air
Rm 013A/B	04-12-17	04-17-17	Admin Basement Office	Radon in Air
Rm 013 D	04-12-17	04-17-17	Admin Basement Office	Radon in Air
Rm 013 E	04-12-17	04-17-17	Admin Basement Office	Radon in Air
Hall 014	04-12-17	04-17-17	Admin Basement Hallway	Radon in Air
HS Hall 0006	04-12-17	04-17-17	High School Basement Hallway	Radon in Air
HS Hall 0010A	04-12-17	04-17-17	High School Basement Hallway	Radon in Air
HS Rm 013	04-12-17	04-17-17	High School Locker Room	Radon in Air
HS Rm 013A	04-12-17	04-17-17	High School Gymnasium	Radon in Air
HS Rm 013B	04-12-17	04-17-17	High School Locker Room	Radon in Air
HS Rm 013C	04-12-17	04-17-17	High School Locker Room	Radon in Air
HS Rm 013D	04-12-17	04-17-17	High School Coach's Office	Radon in Air

Notes:
Rm = Room
HS = High School

Section No. 9.0: Radon Laboratory Analytical Summary

The short-term Radon in Air sampling was performed by laboratory supplied test kits, assigned individual identification numbers and secured. 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 of Radon in Air..

EMSL Analytical Inc. (EMSL) of Cinnaminson, New Jersey provided laboratory analytical services. Copies of EMSL's NYSDOH certifications are available upon request.

The laboratory analytical results for the Radon in Air samples were reviewed and compared to the United States Environmental Protection Agency (EPA) *Radon Measurement in Schools Revised Edition* (EPA 402-R-92-014), dated July 1993.

The following table summarizes the Groundwater Analytical Results:

Table No. 7:
Summary of Radon Samples Analysis Results

Sample ID#	Box Number	Sample Device Number	Radon Activity pCi/L	Blank Device Number	Radon Activity pCi/L
Rm 001	165553	283724	1.9	283758	0.1
Rm 002	165563	283834	3.8	283928	0
Rm 004	165552	283801	1.2	283861	0
Rm 006	165562	283802	2.6	283819	0.04
Rm 007	165565	283772	2.4	283770	0.1
Rm 008	165556	283822	1.9	283759	0
Hall 013	165569	283876	1.1	283757	0.04
Rm 013A/B	165571	283667	1	283723	0.04
Rm 013D	165570	283885	1	283771	0.04
Rm 013E	165548	283803	0.9	283767	0.04
Hall 014	165554	283804	1.1	283848	0.04
HS Hall 0006	165540	283930	2.4	283812	0.04
HS Hall 0010A	165541	283926	1	283867	0.04
HS Rm 013	165543	283876	3.9	283827	0.2
HS Rm 013A	165542	283845	0.5	283749	0.4
HS Rm 013B	165544	283823	0.7	283811	0.4
HS Rm 013C	165545	283915	0.6	283830	0.1
HS Rm 013D	165546	283806	1.7	283727	0.1

Notes:
Rm = Room
HS = High School

The laboratory analysis results from the Radon samples submitted did not reveal any elevated concentrations of Radon exceeding 4.0 pCi/L, the referenced guidance value established by the EPA.

Section No. 10.0: Quality Assurance and Quality Control (QA/QC) Procedures

In order to prevent cross-contamination between sampling locations, all re-usable sampling equipment which came into contact with sample materials was decontaminated prior to each use. Equipment used for sample collection was wiped clean, washed in a solution of Alconox and thoroughly rinsed with potable water. New and dedicated polyethylene tubing was used for collection of each subsurface sample. All sampling personnel wore disposable latex, nylon, or nitrile gloves during sampling events. At a minimum, gloves were changed between locations and before each laboratory sample was collected. All collected groundwater samples were placed into an appropriately conditioned cooler for storage and were transported to the laboratory. Samples were maintained between 0°C and 8°C.

- 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. 11.0: Volatile Vapor Intrusion Findings

Based upon the review of the VVI laboratory analysis results all detectable concentrations observed were reported well below published occupational health guidelines. However, all detectable concentrations but one (1), Trichlorofluoromethane (Freon 11) in the administration basement was 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.

- The results of the matrices indicate that "Take reasonable and practical actions to identify source(s) and reduce exposures" is required for Carbon Tetrachloride. That is, the concentration detected in the indoor air sample is likely due to indoor and/or outdoor sources rather than soil vapor intrusion given the concentration detected in the sub-slab vapor sample. Therefore, steps should be taken to identify potential source(s) and to reduce exposures accordingly (e.g., by keeping containers tightly capped or by storing volatile organic compound-containing products in places where people do not spend much time, such as a garage or outdoor shed).

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

Section No. 11.1: Previous Analytical Results Trend Analysis

On July 9, 2013, July 21, 2014, and February 22, 2016 JCB performed the same volatile vapor intrusion sampling. The analytical results collected last year was compared to this year's results and the following observations were made:

Table No. 8: Comparison of Current Air Quality Analytical Results to Previous Years			
Location	**Number of Additional Compounds Detected in 2017**	**Number of Compounds with Increased Concentrations from 2016**	**Number of Compounds with Decreased Concentrations from 2016**
North Subsurface	3	4	6
South Subsurface	2	4	5
North Crawlspace	0	8	4
South Crawlspace	0	5	1
1st Floor Cafeteria "A"	0	7	3
Admin Basement	3	8	2
Ambient	0	0	12

It should be noted that the high number of compounds with decreasing concentrations detected in all indoor samples collected indicates a downward trend suggesting an overall improvement in the areas tested.

Section No. 12.0: Conclusions

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

JCB collected groundwater samples from close proximity to monitoring wells MW-1, MW-2, and MW-3 as a result in the decline of the groundwater table. The laboratory analysis results of the groundwater samples submitted from MW-2 and MW-3 confirmed the detection of Freon® 22. The samples were also analyzed for Radium 226 and Radium 228 and were detected in all samples above the NYSDEC TOGS 1.1.1 guidance values for groundwater. Toluene was also detected in MW-1 for the first time and at a concentration above guidance values

The detection of Radium 226 and 228 in the groundwater prompted the sampling and analysis of Radon in Air within the Administration and High School buildings. The results did not reveal any elevated concentrations of Radon exceeding 4.0 pCi/L, the referenced guidance value established by the EPA.

Based on the findings of this sampling event, it appears the groundwater monitoring wells installed on the school property have revealed evidence of off-site contamination influencing the groundwater quality beneath the school property.

Section No. 13.0: Recommendations

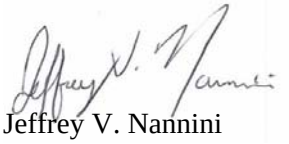
It is recommended that periodic VVI and groundwater sampling be continued to monitor site conditions. The VVI testing parameters should also be expanded to include Radon, a decay product of Radium.

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

Section No. 14.0: Certification

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

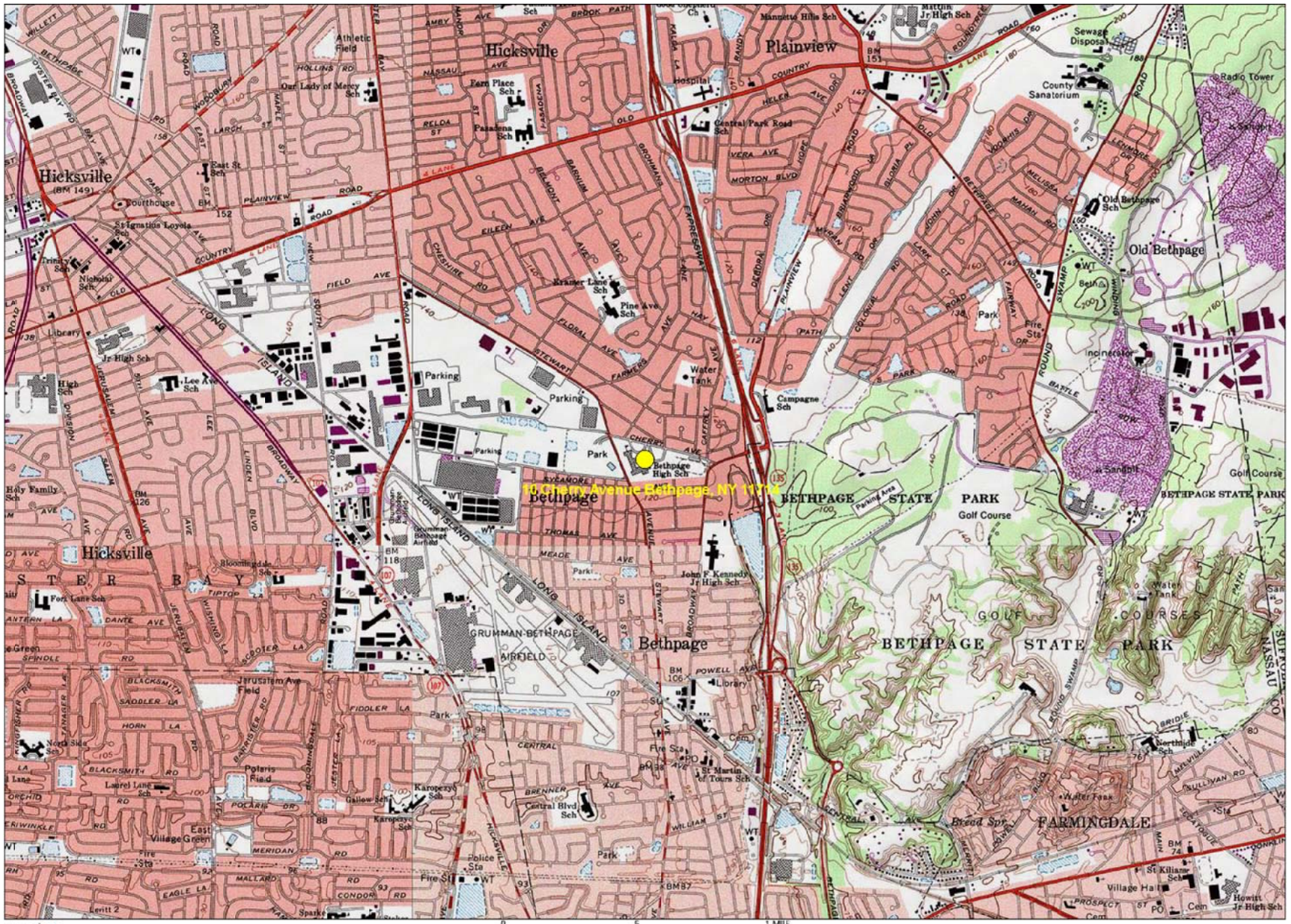
Sincerely,
J.C. Broderick & Associates, Inc.



Jeffrey V. Nannini
Environmental Scientist

Steven Muller, P.G.
Project Manager

Appendix A
Figures



JCB LEGEND

SUBJECT SITE

J.C. BRODERICK & Associates
Environmental Consulting and Testing
1775 Express Drive North
Hauppauge, NY 11788
Phone: (631).584.5492
Fax: (631).584.3395

Notes:

Bethpage High School
10 Cherry Avenue
Bethpage, NY 11714

Drawing Title

Figure No. 1

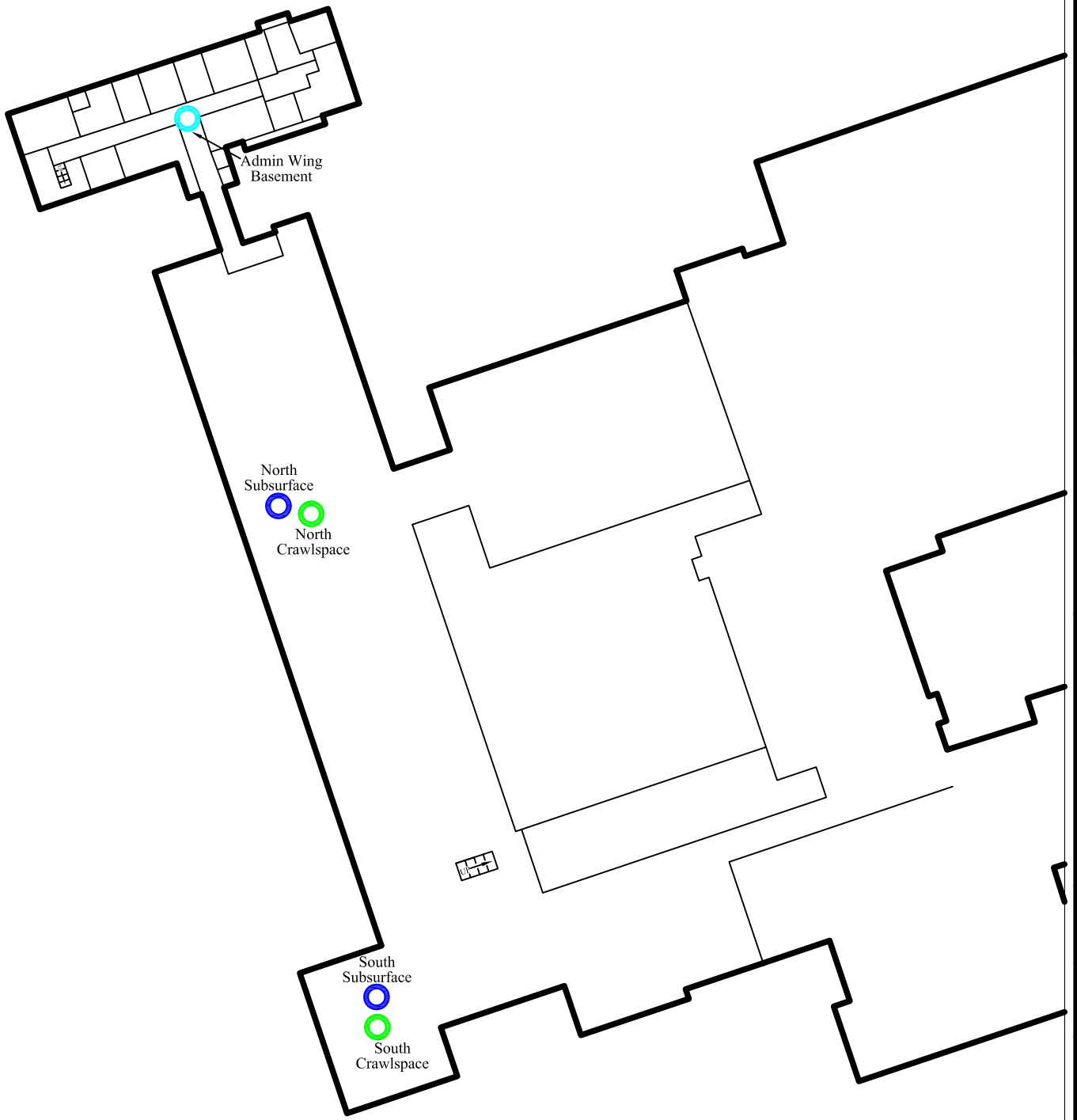
Site Location Map

Scale	Project No.	Date
As Noted	16-35984	02-24-17

Drawn By	Checked By	Page No.
J.V.N.	S.W.M.	1 of 6

Drawing No.

1



PROJECT NORTH

JCB LEGEND

- SUBSURFACE SAMPLING LOCATION
- CRAWLSPACE SAMPLING LOCATION
- BASEMENT SAMPLING LOCATION

J.C. BRODERICK
& Associates
Environmental Consulting and Testing
1775 Express Drive North
Hauppauge, New York 11788
Phone: (631).584.5492
Fax: (631).584.3395

Notes:

Bethpage High School
10 Cherry Avenue
Bethpage, NY 11714

Drawing Title

Figure No. 2

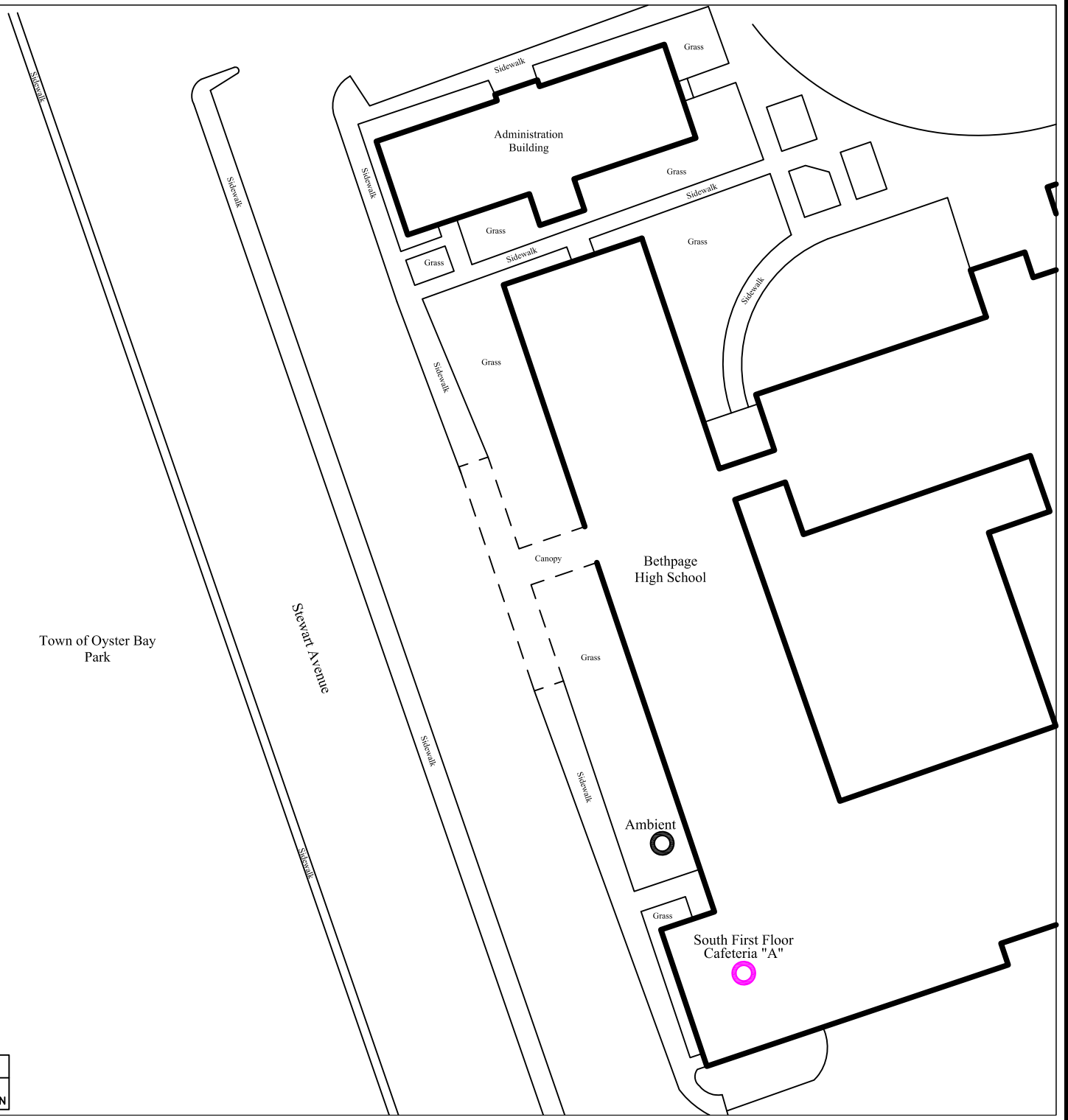
Subsurface, Crawlspace and Basement Sampling Locations

Scale	Project No.	Date
N.T.S.	16-35984	02-22-17

Drawn By	Checked By	Page No.
J.V.N.	S.W.M.	2 of 6

Drawing No.

2



PROJECT NORTH

JCB LEGEND

- AMBIENT SAMPLING LOCATION
- 1ST FLOOR SAMPLING LOCATION

J.C. BRODERICK & Associates
Environmental Consulting and Testing
1775 Express Drive North
Hauppauge, New York 11788
Phone: (631).584.5492
Fax: (631).584.3395

Notes:

Bethpage High School
10 Cherry Avenue
Bethpage, NY 11714

Drawing Title

Figure No. 3

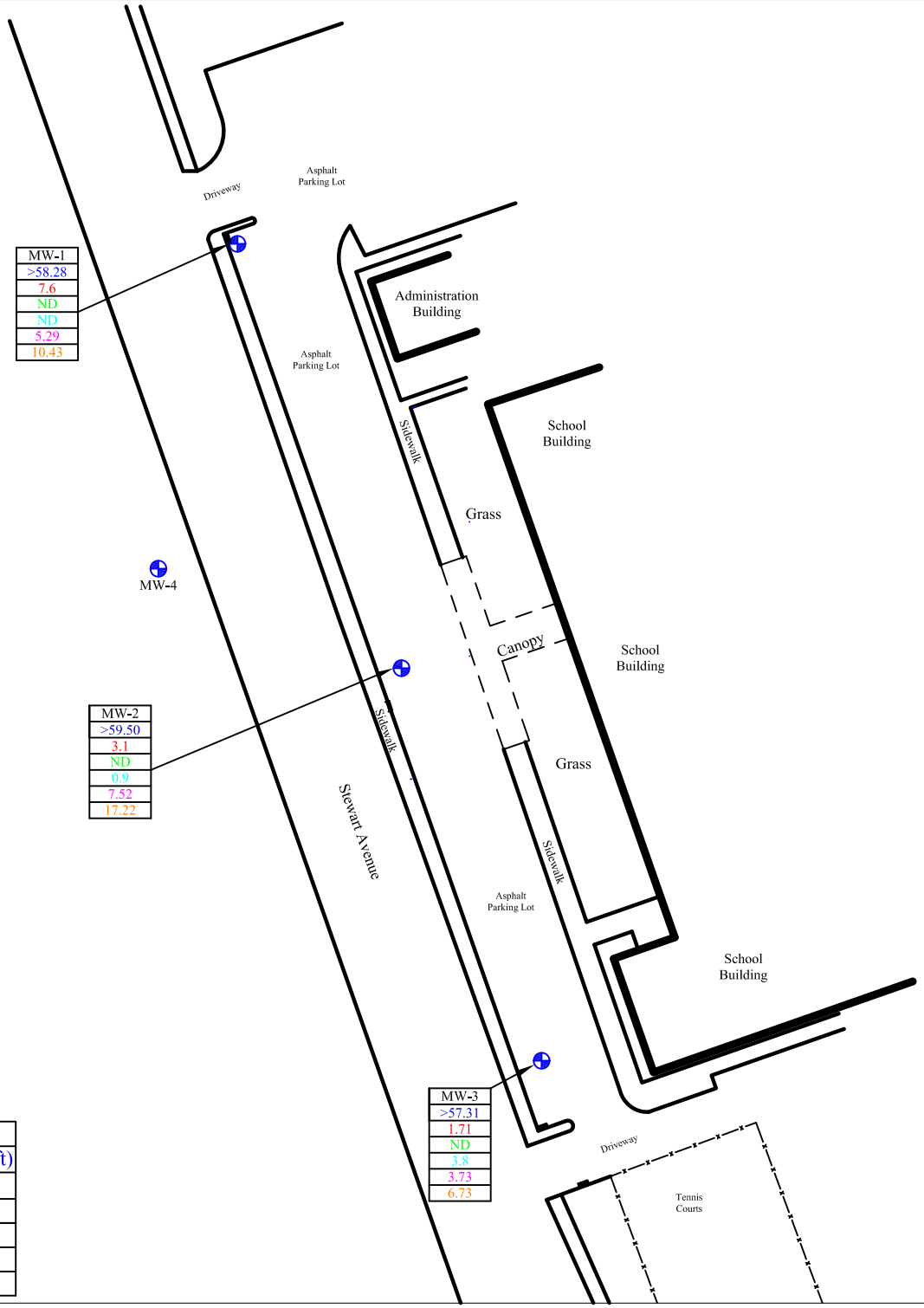
1st Floor and Ambient Sampling Locations

Scale	Project No.	Date
N.T.S.	16-35984	02-22-17

Drawn By	Checked By	Page No.
J.V.N.	S.W.M.	3 of 6

Drawing No.

3



PROJECT NORTH

20 0 40 80

Scale in feet

WELL NUMBER
GROUNDWATER ELEVATION (ft)
TOTAL VOCs (µg/L)
FREON 12 (µg/L)
FREON 22 (µg/L)
RADIUM 226 (pCi/L)
RADIUM 228 (pCi/L)

J.C. BRODERICK & Associates
Environmental
Consulting and Testing
1775 Expressway Drive North
Hauppauge, NY 11788
Phone: (631).584.5492
Fax: (631).584.3395

Notes:

Bethpage High School
10 Cherry Avenue
Bethpage, NY 11714

Drawing Title

Figure No. 4

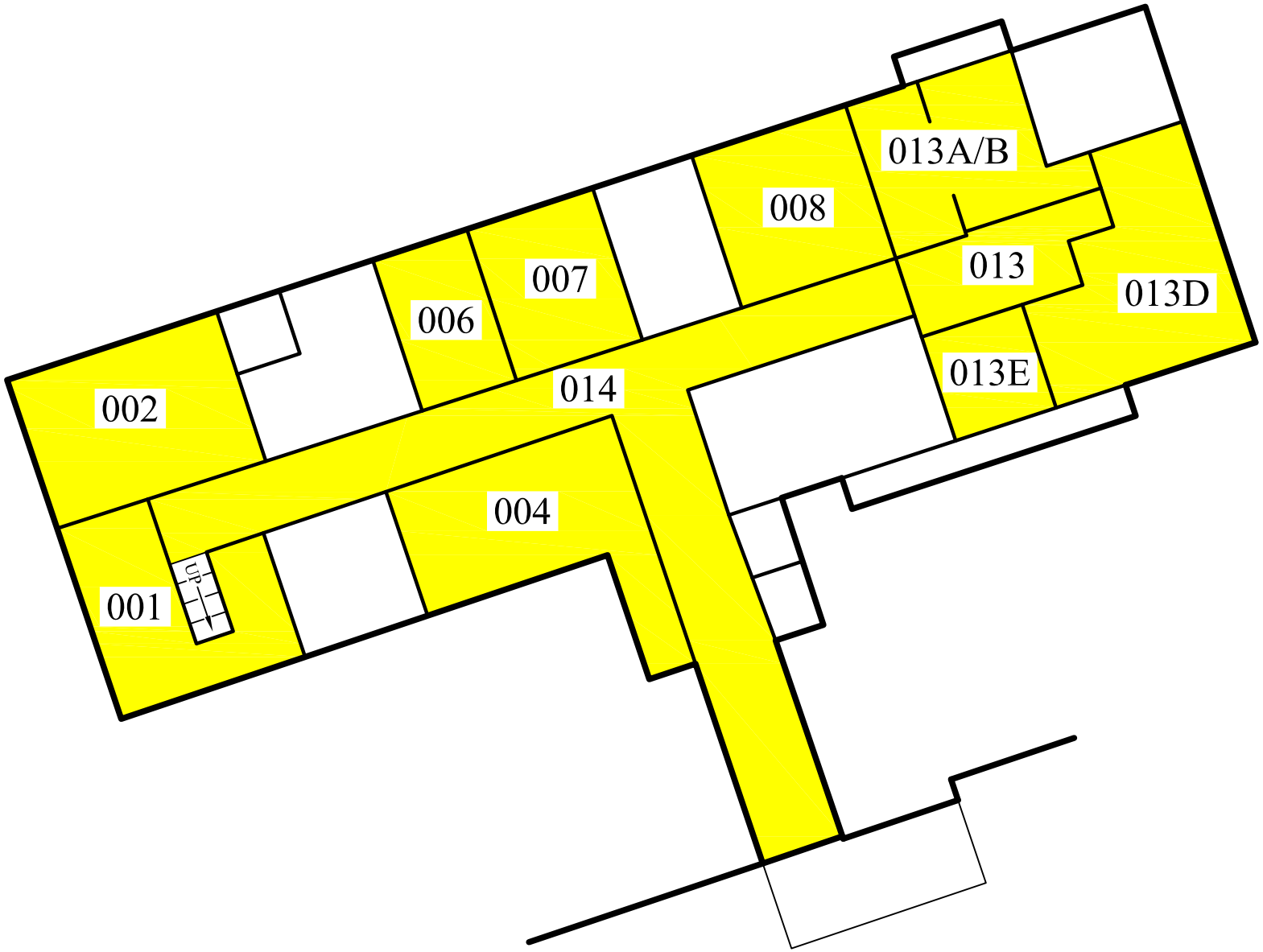
Groundwater Analytical Results Map

Scale	Project No.	Date
As Noted	16-35984	02-24-17

Drawn By	Checked By	Page No.
J.V.N.	S.W.M.	4 of 6

Drawing No.

4



PROJECT NORTH

JCB LEGEND
RADON SAMPLE LOCATION

J.C. BRODERICK
& Associates
Environmental Consulting and Testing
1775 Express Drive North
Hauppauge, New York 11788
Phone: (631).584.5492
Fax: (631).584.3395

Notes:

Bethpage UFSD
Administration Building
10 Cherry Avenue
Bethpage, NY 11714

Drawing Title

Figure No. 5

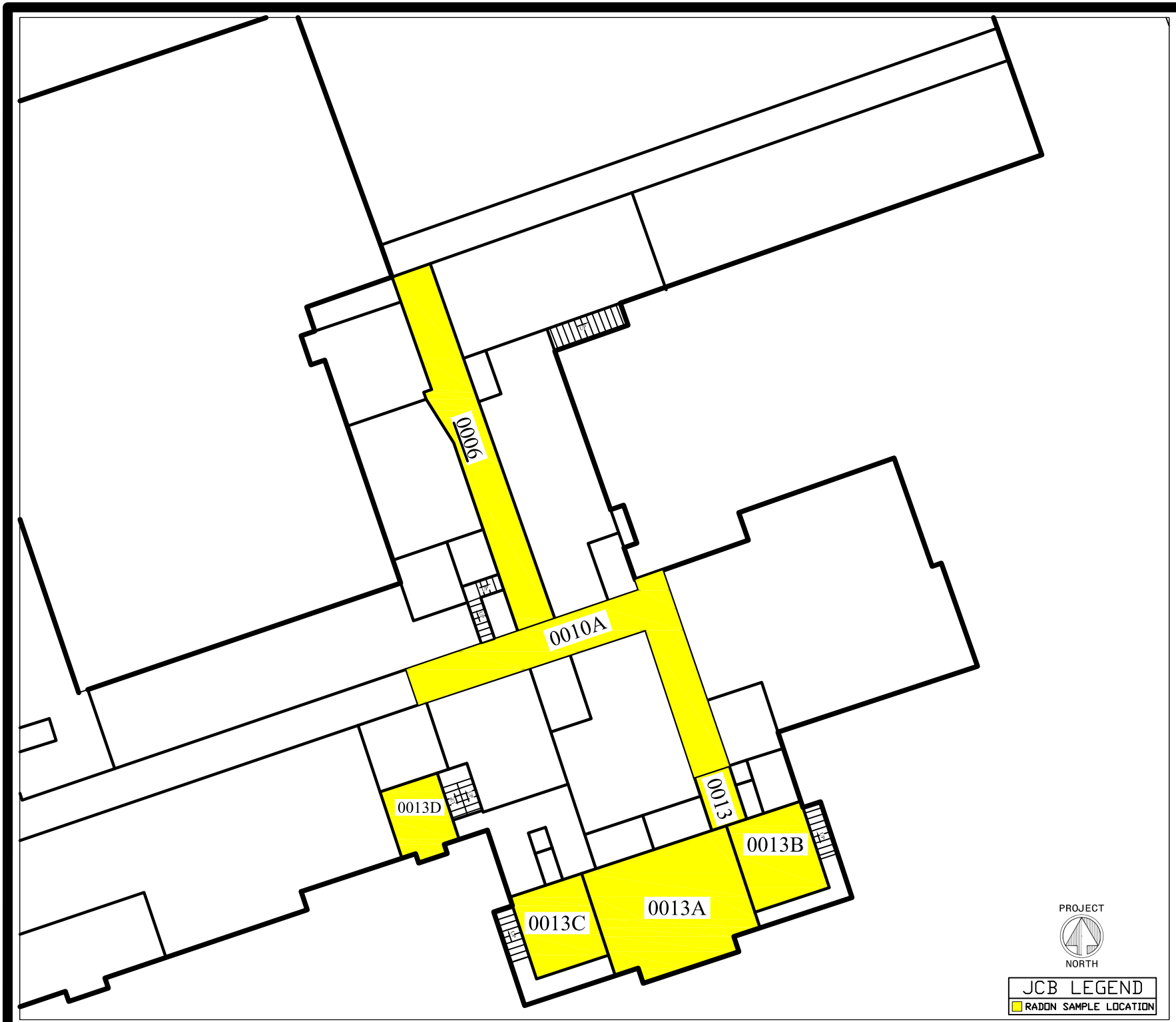
Administration Building Radon Sampling Locations

Scale	Project No.	Date
N.T.S.	16-35984	04-12-17

Drawn By	Checked By	Page No.
J.V.N.	S.W.M.	5 of 6

Drawing No.

5



J.C. BRODERICK
& Associates
Environmental Consulting and Testing
1775 Express Drive North
Hauppauge, New York 11788
Phone: (631).584.5492
Fax: (631).584.3395

Notes:

Bethpage High School
10 Cherry Avenue
Bethpage, NY 11714

Drawing Title

Figure No. 6

Bethpage High School Basement Radon Sampling Locations

Scale	Project No.	Date
N.T.S.	16-35984	04-12-17

Drawn By	Checked By	Page No.
J.V.N.	S.W.M.	6 of 6

Drawing No.

6

Appendix B
Field Photograph Logs

North Subsurface Sampling Location

Field Photograph Log

Volatile Vapor Intrusion Report

Bethpage High School
10 Cherry Avenue
Bethpage, New York 11714

Photo No. 01

JCB#: 16-35984

North Crawlspace Sampling Location

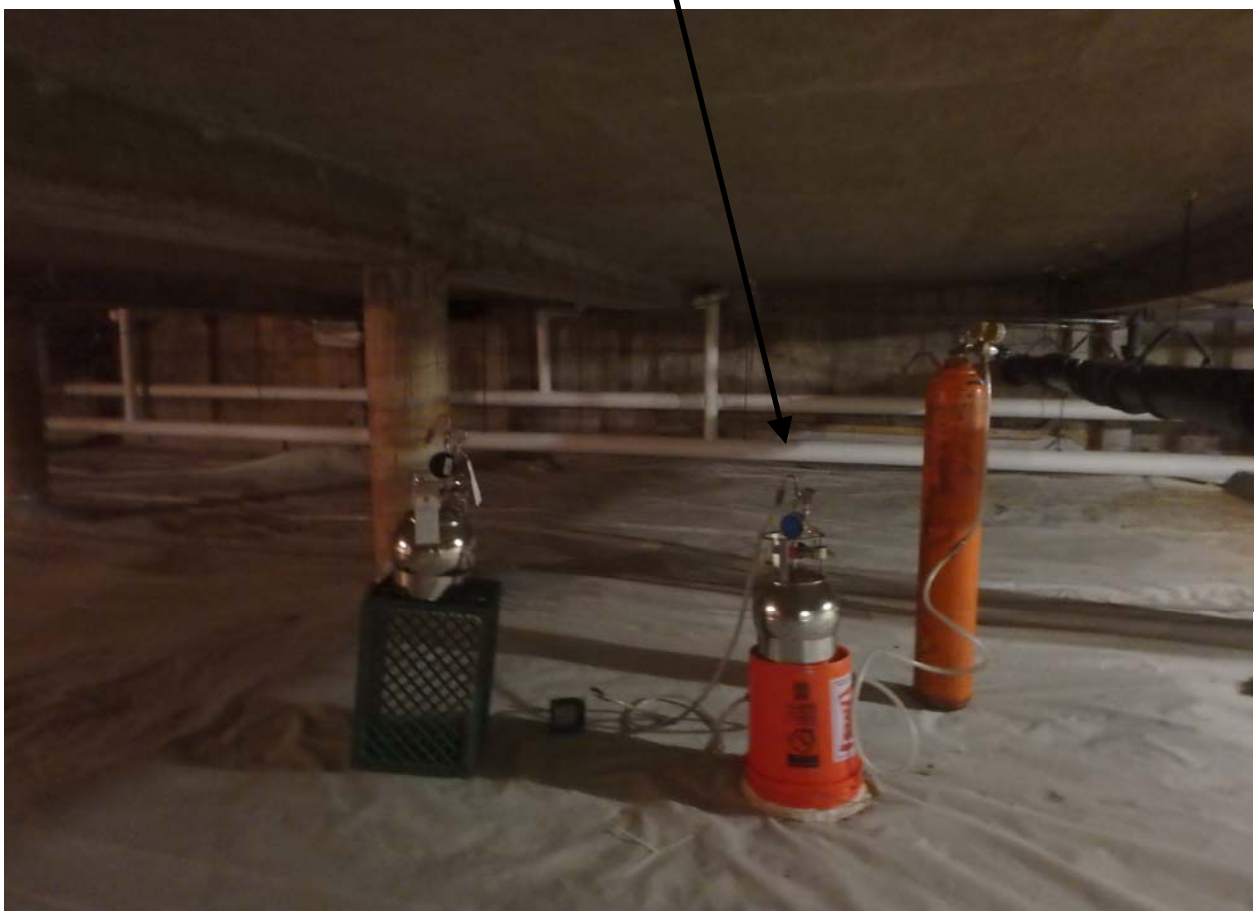
Field Photograph Log

Volatile Vapor Intrusion Report

Bethpage High School
10 Cherry Avenue
Bethpage, New York 11714

Photo No. 02 **JCB#: 16-35984**

South Subsurface Sampling Location



Field Photograph Log

Volatile Vapor Intrusion Report

Bethpage High School
10 Cherry Avenue
Bethpage, New York 11714

Photo No. 03

JCB#: 16-35984

South Crawlspace Sampling Location

Field Photograph Log

Volatile Vapor Intrusion Report

Bethpage High School
10 Cherry Avenue
Bethpage, New York 11714

Photo No. 04

JCB#: 16-35984

South First Floor Cafeteria "A" Sampling Location

Field Photograph Log

Volatile Vapor Intrusion Report

Bethpage High School
10 Cherry Avenue
Bethpage, New York 11714

Photo No. 05 **JCB#: 16-35984**

Administration Wing Basement Sampling Location

Field Photograph Log

Volatile Vapor Intrusion Report

Bethpage High School
10 Cherry Avenue
Bethpage, New York 11714

Photo No. 06

JCB#: 16-35984

Ambient Sampling Location

Field Photograph Log

Volatile Vapor Intrusion Report

Bethpage High School
10 Cherry Avenue
Bethpage, New York 11714

Photo No. 07

JCB#: 16-35984

Typical Subsurface Sampling Equipment and Setup

Field Photograph Log

Volatile Vapor Intrusion Report

Bethpage High School
10 Cherry Avenue
Bethpage, New York 11714

Photo No. 08

JCB#: 16-35984

Typical Summa® Canister Starting Pressure

Field Photograph Log

Volatile Vapor Intrusion Report

Bethpage High School
10 Cherry Avenue
Bethpage, New York 11714

Photo No. 09 **JCB#: 16-35984**

Typical Summa® Canister Ending Pressure

Field Photograph Log

Volatile Vapor Intrusion Report

Bethpage High School
10 Cherry Avenue
Bethpage, New York 11714

Photo No. 10

JCB#: 16-35984

Groundwater Sample Collection
Adjacent to MW-3

Field Photograph Log

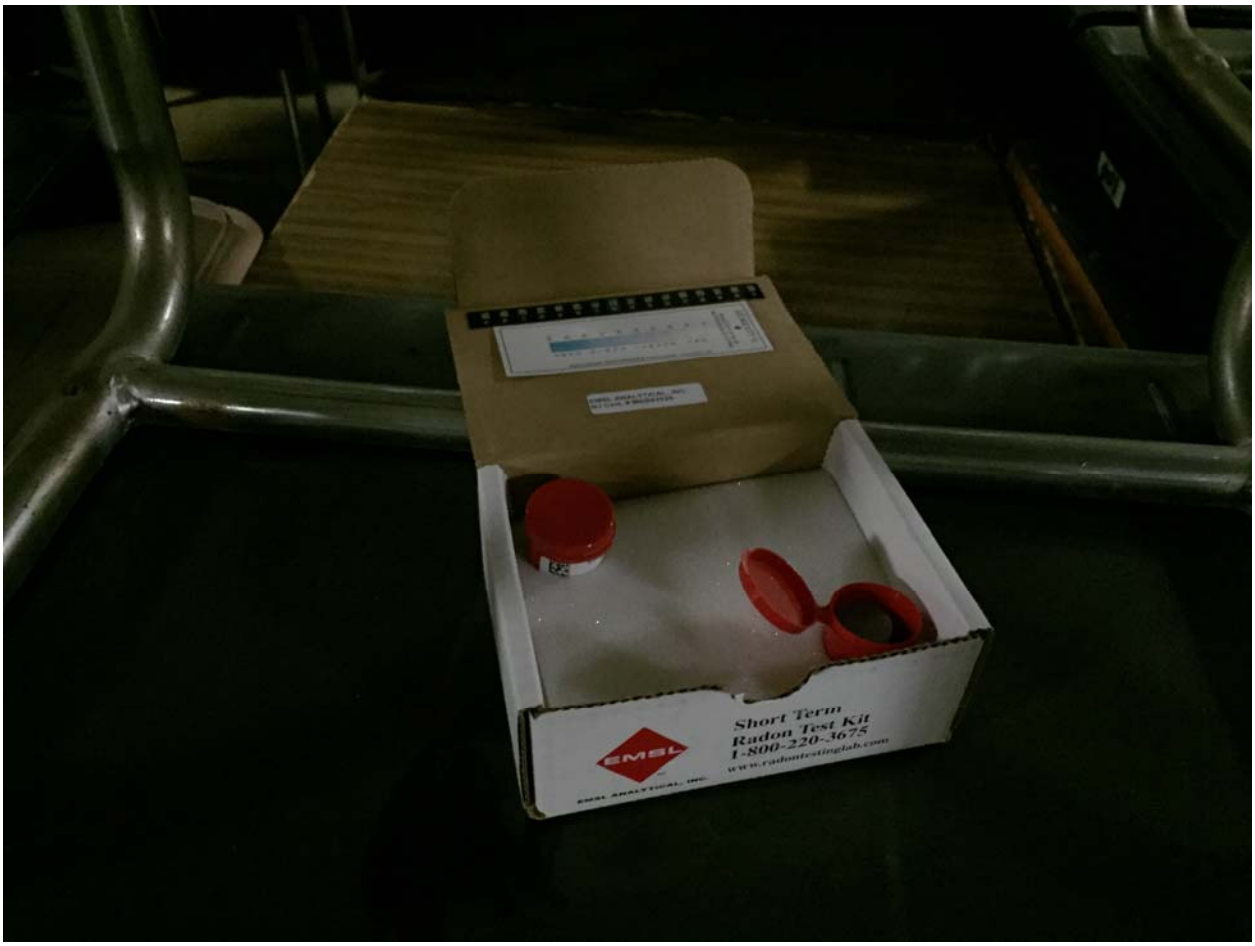
Volatile Vapor Intrusion Report

Bethpage High School
10 Cherry Avenue
Bethpage, New York 11714

Photo No. 11

JCB#: 16-35984

Radon in Air Sampling Kit
Typical



Field Photograph Log

Volatile Vapor Intrusion Report

Bethpage High School
10 Cherry Avenue
Bethpage, New York 11714

Photo No. 12 **JCB#: 16-35984**

Appendix C
Laboratory Analytical Results

Technical Report

prepared for:

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

Report Date: 03/03/2017
Client Project ID: 16-35984
York Project (SDG) No.: 17B0862

Report Date: 03/03/2017
Client Project ID: 16-35984
York Project (SDG) No.: 17B0862

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 24, 2017 and listed below. The project was identified as your project: **16-35984**.

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 Notes 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 attachment to 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
17B0862-01	South Subsurface	Soil Vapor	02/22/2017	02/24/2017
17B0862-02	South Crawlspace	Indoor Ambient Air	02/22/2017	02/24/2017
17B0862-03	North Subsurface	Soil Vapor	02/22/2017	02/24/2017
17B0862-04	North Crawlspace	Indoor Ambient Air	02/22/2017	02/24/2017
17B0862-05	Admin Wing Basement	Indoor Ambient Air	02/22/2017	02/24/2017
17B0862-06	South 1st Floor Cafeteria "A"	Indoor Ambient Air	02/22/2017	02/24/2017
17B0862-07	Ambient	Outdoor Ambient Ai	02/22/2017	02/24/2017

General Notes for York Project (SDG) No.: 17B0862

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 samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
9. 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: 03/03/2017

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: **South Subsurface** **York Sample ID:** **17B0862-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0862	16-35984	Soil Vapor	February 22, 2017 3:00 pm	02/24/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	15	15	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	12	12	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	15	15	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	16	16	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	12	12	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-34-3	1,1-Dichloroethane	ND		ug/m³	8.6	8.6	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	8.4	8.4	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	16	16	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	10	10	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
106-93-4	1,2-Dibromoethane	ND		ug/m³	16	16	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	13	13	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
107-06-2	1,2-Dichloroethane	ND		ug/m³	8.6	8.6	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
78-87-5	1,2-Dichloropropane	ND		ug/m³	9.8	9.8	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	15	15	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	10	10	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
106-99-0	1,3-Butadiene	ND		ug/m³	14	14	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	13	13	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	9.8	9.8	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	13	13	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
123-91-1	1,4-Dioxane	ND		ug/m³	15	15	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
78-93-3	**2-Butanone**	**38**		ug/m³	6.3	6.3	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		

Sample Information

Client Sample ID: South Subsurface **York Sample ID:** 17B0862-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0862	16-35984	Soil Vapor	February 22, 2017 3:00 pm	02/24/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ug/m³	17	17	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:			
107-05-1	3-Chloropropene	ND		ug/m³	33	33	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	8.7	8.7	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
67-64-1	**Acetone**	**530**		ug/m³	10	10	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
107-13-1	Acrylonitrile	ND		ug/m³	4.6	4.6	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
71-43-2	**Benzene**	**11**		ug/m³	6.8	6.8	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
100-44-7	Benzyl chloride	ND		ug/m³	11	11	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-27-4	Bromodichloromethane	ND		ug/m³	14	14	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-25-2	Bromoform	ND		ug/m³	22	22	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
74-83-9	Bromomethane	ND		ug/m³	8.3	8.3	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-15-0	Carbon disulfide	ND		ug/m³	6.6	6.6	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
56-23-5	Carbon tetrachloride	ND		ug/m³	3.3	3.3	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
108-90-7	Chlorobenzene	ND		ug/m³	9.8	9.8	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-00-3	Chloroethane	ND		ug/m³	5.6	5.6	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
67-66-3	Chloroform	ND		ug/m³	10	10	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
74-87-3	Chloromethane	ND		ug/m³	4.4	4.4	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	8.4	8.4	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	9.7	9.7	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
110-82-7	Cyclohexane	ND		ug/m³	7.3	7.3	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
124-48-1	Dibromochloromethane	ND		ug/m³	18	18	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-71-8	Dichlorodifluoromethane	ND		ug/m³	11	11	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
141-78-6	* Ethyl acetate	ND		ug/m³	15	15	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:			

Sample Information

Client Sample ID: South Subsurface

York Sample ID: 17B0862-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0862	16-35984	Soil Vapor	February 22, 2017 3:00 pm	02/24/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	**Ethyl Benzene**	**21**		ug/m³	9.2	9.2	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
87-68-3	Hexachlorobutadiene	ND		ug/m³	23	23	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
67-63-0	Isopropanol	ND		ug/m³	10	10	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
80-62-6	Methyl Methacrylate	ND		ug/m³	8.7	8.7	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	7.7	7.7	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-09-2	Methylene chloride	ND		ug/m³	15	15	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
142-82-5	n-Heptane	ND		ug/m³	8.7	8.7	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
110-54-3	**n-Hexane**	**8.3**		ug/m³	7.5	7.5	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
95-47-6	o-Xylene	ND		ug/m³	9.2	9.2	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
179601-23-1	**p- & m- Xylenes**	**37**		ug/m³	18	18	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
622-96-8	* p-Ethyltoluene	ND		ug/m³	10	10	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:			
115-07-1	* Propylene	ND		ug/m³	3.7	3.7	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:			
100-42-5	Styrene	ND		ug/m³	9.1	9.1	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
127-18-4	**Tetrachloroethylene**	**13**		ug/m³	3.6	3.6	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
109-99-9	*** Tetrahydrofuran**	**99**		ug/m³	13	13	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:			
108-88-3	**Toluene**	**1800**		ug/m³	8.0	8.0	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	8.4	8.4	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	9.7	9.7	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
79-01-6	Trichloroethylene	ND		ug/m³	2.9	2.9	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	12	12	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
108-05-4	Vinyl acetate	ND		ug/m³	7.5	7.5	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
593-60-2	Vinyl bromide	ND		ug/m³	9.3	9.3	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		

Sample Information

Client Sample ID: South Subsurface **York Sample ID:** 17B0862-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0862	16-35984	Soil Vapor	February 22, 2017 3:00 pm	02/24/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m³	5.4	5.4	21.29	EPA TO-15	02/25/2017 01:17	02/25/2017 01:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*106 %*	*72-118*

Helium

Log-in Notes:

Sample Notes:

Sample Prepared by Method: PREP for GASES by GC

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-59-7	* Helium	ND		%	1.1	1.1	2.13	GC/TCD	02/28/2017 16:58	02/28/2017 17:18	LDS
								Certifications:			

Sample Information

Client Sample ID: South Crawlspace **York Sample ID:** 17B0862-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0862	16-35984	Indoor Ambient Air	February 22, 2017 3:00 pm	02/24/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.69	0.69	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.55	0.55	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.69	0.69	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.77	0.77	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.55	0.55	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.40	0.40	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.40	0.40	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.74	0.74	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		

Sample Information

Client Sample ID: South Crawlspace **York Sample ID:** 17B0862-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0862	16-35984	Indoor Ambient Air	February 22, 2017 3:00 pm	02/24/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.49	0.49	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.77	0.77	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.60	0.60	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.40	0.40	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.46	0.46	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.70	0.70	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.49	0.49	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
106-99-0	1,3-Butadiene	ND		ug/m³	0.66	0.66	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.60	0.60	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.46	0.46	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.60	0.60	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
123-91-1	1,4-Dioxane	ND		ug/m³	0.72	0.72	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
78-93-3	**2-Butanone**	**0.97**		ug/m³	0.29	0.29	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
591-78-6	* 2-Hexanone	ND		ug/m³	0.82	0.82	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:			
107-05-1	3-Chloropropene	ND		ug/m³	1.6	1.6	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.41	0.41	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
67-64-1	**Acetone**	**8.4**		ug/m³	0.48	0.48	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
107-13-1	Acrylonitrile	ND		ug/m³	0.22	0.22	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
71-43-2	**Benzene**	**0.38**		ug/m³	0.32	0.32	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
100-44-7	Benzyl chloride	ND		ug/m³	0.52	0.52	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-27-4	Bromodichloromethane	ND		ug/m³	0.67	0.67	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-25-2	Bromoform	ND		ug/m³	1.0	1.0	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		

Sample Information

Client Sample ID: South Crawlspace **York Sample ID:** 17B0862-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0862	16-35984	Indoor Ambient Air	February 22, 2017 3:00 pm	02/24/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/m³	0.39	0.39	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-15-0	Carbon disulfide	ND		ug/m³	0.31	0.31	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
56-23-5	Carbon tetrachloride	ND		ug/m³	0.16	0.16	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
108-90-7	Chlorobenzene	ND		ug/m³	0.46	0.46	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-00-3	Chloroethane	ND		ug/m³	0.26	0.26	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
67-66-3	Chloroform	ND		ug/m³	0.49	0.49	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
74-87-3	**Chloromethane**	**1.2**		ug/m³	0.21	0.21	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.40	0.40	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.45	0.45	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
110-82-7	Cyclohexane	ND		ug/m³	0.34	0.34	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
124-48-1	Dibromochloromethane	ND		ug/m³	0.85	0.85	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-71-8	**Dichlorodifluoromethane**	**2.0**		ug/m³	0.49	0.49	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
141-78-6	* Ethyl acetate	ND		ug/m³	0.72	0.72	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:			
100-41-4	Ethyl Benzene	ND		ug/m³	0.43	0.43	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.1	1.1	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
67-63-0	**Isopropanol**	**2.1**		ug/m³	0.49	0.49	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
80-62-6	Methyl Methacrylate	ND		ug/m³	0.41	0.41	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.36	0.36	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-09-2	**Methylene chloride**	**1.3**		ug/m³	0.69	0.69	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
142-82-5	n-Heptane	ND		ug/m³	0.41	0.41	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
110-54-3	n-Hexane	ND		ug/m³	0.35	0.35	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
95-47-6	o-Xylene	ND		ug/m³	0.43	0.43	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		

Sample Information

Client Sample ID: South Crawlspace **York Sample ID:** 17B0862-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0862	16-35984	Indoor Ambient Air	February 22, 2017 3:00 pm	02/24/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
179601-23-1	p- & m- Xylenes	ND		ug/m³	0.87	0.87	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.49	0.49	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.17	0.17	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:			
100-42-5	Styrene	ND		ug/m³	0.43	0.43	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
127-18-4	Tetrachloroethylene	ND		ug/m³	0.17	0.17	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.59	0.59	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:			
108-88-3	**Toluene**	**0.83**		ug/m³	0.38	0.38	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.40	0.40	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.45	0.45	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
79-01-6	Trichloroethylene	ND		ug/m³	0.13	0.13	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**2.3**		ug/m³	0.56	0.56	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
108-05-4	Vinyl acetate	ND		ug/m³	0.35	0.35	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
593-60-2	Vinyl bromide	ND		ug/m³	0.44	0.44	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-01-4	Vinyl Chloride	ND		ug/m³	0.26	0.26	1	EPA TO-15	02/25/2017 02:17	02/25/2017 02:17	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*102 %*	*72-118*

Sample Information

Client Sample ID: North Subsurface **York Sample ID:** 17B0862-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0862	16-35984	Soil Vapor	February 22, 2017 3:00 pm	02/24/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: North Subsurface **York Sample ID:** 17B0862-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0862	16-35984	Soil Vapor	February 22, 2017 3:00 pm	02/24/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	13	13	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	11	11	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	13	13	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	15	15	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	11	11	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-34-3	1,1-Dichloroethane	ND		ug/m³	7.9	7.9	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	7.7	7.7	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	14	14	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
95-63-6	**1,2,4-Trimethylbenzene**	**14**		ug/m³	9.6	9.6	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
106-93-4	1,2-Dibromoethane	ND		ug/m³	15	15	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	12	12	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
107-06-2	1,2-Dichloroethane	ND		ug/m³	7.9	7.9	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
78-87-5	1,2-Dichloropropane	ND		ug/m³	9.0	9.0	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	14	14	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	9.6	9.6	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
106-99-0	1,3-Butadiene	ND		ug/m³	13	13	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	12	12	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	9.0	9.0	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	12	12	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
123-91-1	1,4-Dioxane	ND		ug/m³	14	14	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
78-93-3	**2-Butanone**	**40**		ug/m³	5.8	5.8	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
591-78-6	* 2-Hexanone	ND		ug/m³	16	16	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:			

Sample Information

Client Sample ID: North Subsurface

York Sample ID: 17B0862-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0862	16-35984	Soil Vapor	February 22, 2017 3:00 pm	02/24/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	31	31	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	8.0	8.0	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
67-64-1	**Acetone**	**630**		ug/m³	9.3	9.3	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
107-13-1	Acrylonitrile	ND		ug/m³	4.2	4.2	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
71-43-2	**Benzene**	**10**		ug/m³	6.2	6.2	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
100-44-7	Benzyl chloride	ND		ug/m³	10	10	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
75-27-4	Bromodichloromethane	ND		ug/m³	13	13	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
75-25-2	Bromoform	ND		ug/m³	20	20	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
74-83-9	Bromomethane	ND		ug/m³	7.6	7.6	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
75-15-0	Carbon disulfide	ND		ug/m³	6.1	6.1	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
56-23-5	Carbon tetrachloride	ND		ug/m³	3.1	3.1	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
108-90-7	Chlorobenzene	ND		ug/m³	9.0	9.0	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
75-00-3	Chloroethane	ND		ug/m³	5.2	5.2	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
67-66-3	Chloroform	ND		ug/m³	9.5	9.5	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
74-87-3	Chloromethane	ND		ug/m³	4.0	4.0	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	7.7	7.7	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	8.9	8.9	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
110-82-7	Cyclohexane	ND		ug/m³	6.7	6.7	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
124-48-1	Dibromochloromethane	ND		ug/m³	17	17	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
75-71-8	Dichlorodifluoromethane	ND		ug/m³	9.7	9.7	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
141-78-6	* Ethyl acetate	ND		ug/m³	14	14	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:			
100-41-4	**Ethyl Benzene**	**35**		ug/m³	8.5	8.5	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			

Sample Information

Client Sample ID: North Subsurface

York Sample ID: 17B0862-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0862	16-35984	Soil Vapor	February 22, 2017 3:00 pm	02/24/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	21	21	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
67-63-0	Isopropanol	ND		ug/m³	9.6	9.6	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
80-62-6	Methyl Methacrylate	ND		ug/m³	8.0	8.0	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	7.0	7.0	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-09-2	Methylene chloride	ND		ug/m³	14	14	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
142-82-5	n-Heptane	ND		ug/m³	8.0	8.0	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
110-54-3	**n-Hexane**	**12**		ug/m³	6.9	6.9	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
95-47-6	**o-Xylene**	**21**		ug/m³	8.5	8.5	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
179601-23-1	**p- & m- Xylenes**	**90**		ug/m³	17	17	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
622-96-8	*** p-Ethyltoluene**	**27**		ug/m³	9.6	9.6	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:			
115-07-1	* Propylene	ND		ug/m³	3.4	3.4	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:			
100-42-5	Styrene	ND		ug/m³	8.3	8.3	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
127-18-4	**Tetrachloroethylene**	**5.3**		ug/m³	3.3	3.3	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
109-99-9	*** Tetrahydrofuran**	**75**		ug/m³	12	12	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:			
108-88-3	**Toluene**	**2800**		ug/m³	7.4	7.4	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	7.7	7.7	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	8.9	8.9	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
79-01-6	**Trichloroethylene**	**6.3**		ug/m³	2.6	2.6	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	11	11	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
108-05-4	Vinyl acetate	ND		ug/m³	6.9	6.9	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
593-60-2	Vinyl bromide	ND		ug/m³	8.5	8.5	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-01-4	Vinyl Chloride	ND		ug/m³	5.0	5.0	19.53	EPA TO-15	02/25/2017 03:05	02/25/2017 03:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		

Sample Information

Client Sample ID: North Subsurface **York Sample ID:** 17B0862-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0862	16-35984	Soil Vapor	February 22, 2017 3:00 pm	02/24/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**			**Acceptance Range**						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*106 %*			*72-118*						

Helium

Log-in Notes:

Sample Notes:

Sample Prepared by Method: PREP for GASES by GC

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-59-7	* Helium	ND		%	0.98	0.98	1.95	GC/TCD Certifications:	02/28/2017 16:58	02/28/2017 17:21	LDS

Sample Information

Client Sample ID: North Crawlspace **York Sample ID:** 17B0862-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0862	16-35984	Indoor Ambient Air	February 22, 2017 3:00 pm	02/24/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.70	0.70	1.022	EPA TO-15 Certifications:	02/25/2017 04:05	02/25/2017 04:05	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.56	0.56	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	02/25/2017 04:05	02/25/2017 04:05	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.70	0.70	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	02/25/2017 04:05	02/25/2017 04:05	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.78	0.78	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	02/25/2017 04:05	02/25/2017 04:05	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.56	0.56	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	02/25/2017 04:05	02/25/2017 04:05	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.41	0.41	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	02/25/2017 04:05	02/25/2017 04:05	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.41	0.41	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	02/25/2017 04:05	02/25/2017 04:05	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.76	0.76	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	02/25/2017 04:05	02/25/2017 04:05	LDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.50	0.50	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	02/25/2017 04:05	02/25/2017 04:05	LDS

Sample Information

Client Sample ID: North Crawlspace **York Sample ID:** 17B0862-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0862	16-35984	Indoor Ambient Air	February 22, 2017 3:00 pm	02/24/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.79	0.79	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.61	0.61	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.41	0.41	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.47	0.47	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.71	0.71	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.50	0.50	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
106-99-0	1,3-Butadiene	ND		ug/m³	0.68	0.68	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.61	0.61	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.47	0.47	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.61	0.61	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
123-91-1	1,4-Dioxane	ND		ug/m³	0.74	0.74	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
78-93-3	**2-Butanone**	**0.54**		ug/m³	0.30	0.30	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
591-78-6	* 2-Hexanone	ND		ug/m³	0.84	0.84	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:			
107-05-1	3-Chloropropene	ND		ug/m³	1.6	1.6	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.42	0.42	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
67-64-1	**Acetone**	**7.5**		ug/m³	0.49	0.49	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
107-13-1	Acrylonitrile	ND		ug/m³	0.22	0.22	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
71-43-2	**Benzene**	**0.36**		ug/m³	0.33	0.33	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
100-44-7	Benzyl chloride	ND		ug/m³	0.53	0.53	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-27-4	Bromodichloromethane	ND		ug/m³	0.68	0.68	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-25-2	Bromoform	ND		ug/m³	1.1	1.1	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
74-83-9	Bromomethane	ND		ug/m³	0.40	0.40	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		

Sample Information

Client Sample ID: North Crawlspace **York Sample ID:** 17B0862-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0862	16-35984	Indoor Ambient Air	February 22, 2017 3:00 pm	02/24/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-15-0	Carbon disulfide	ND		ug/m³	0.32	0.32	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
56-23-5	**Carbon tetrachloride**	**0.39**		ug/m³	0.16	0.16	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
108-90-7	Chlorobenzene	ND		ug/m³	0.47	0.47	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-00-3	Chloroethane	ND		ug/m³	0.27	0.27	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
67-66-3	Chloroform	ND		ug/m³	0.50	0.50	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
74-87-3	**Chloromethane**	**1.3**		ug/m³	0.21	0.21	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.41	0.41	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.46	0.46	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
110-82-7	Cyclohexane	ND		ug/m³	0.35	0.35	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
124-48-1	Dibromochloromethane	ND		ug/m³	0.87	0.87	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-71-8	**Dichlorodifluoromethane**	**2.1**		ug/m³	0.51	0.51	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
141-78-6	* Ethyl acetate	ND		ug/m³	0.74	0.74	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:			
100-41-4	Ethyl Benzene	ND		ug/m³	0.44	0.44	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.1	1.1	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
67-63-0	Isopropanol	ND		ug/m³	0.50	0.50	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
80-62-6	Methyl Methacrylate	ND		ug/m³	0.42	0.42	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.37	0.37	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-09-2	Methylene chloride	ND		ug/m³	0.71	0.71	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
142-82-5	n-Heptane	ND		ug/m³	0.42	0.42	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
110-54-3	n-Hexane	ND		ug/m³	0.36	0.36	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
95-47-6	o-Xylene	ND		ug/m³	0.44	0.44	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
179601-23-1	p- & m- Xylenes	ND		ug/m³	0.89	0.89	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		

Sample Information

Client Sample ID: North Crawlspace **York Sample ID:** 17B0862-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0862	16-35984	Indoor Ambient Air	February 22, 2017 3:00 pm	02/24/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.50	0.50	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:			
115-07-1	*** Propylene**	**0.69**		ug/m³	0.18	0.18	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:			
100-42-5	Styrene	ND		ug/m³	0.44	0.44	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
127-18-4	**Tetrachloroethylene**	**0.28**		ug/m³	0.17	0.17	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.60	0.60	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:			
108-88-3	**Toluene**	**0.96**		ug/m³	0.39	0.39	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.41	0.41	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.46	0.46	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
79-01-6	Trichloroethylene	ND		ug/m³	0.14	0.14	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.8**		ug/m³	0.57	0.57	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
108-05-4	Vinyl acetate	ND		ug/m³	0.36	0.36	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
593-60-2	Vinyl bromide	ND		ug/m³	0.45	0.45	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-01-4	Vinyl Chloride	ND		ug/m³	0.26	0.26	1.022	EPA TO-15	02/25/2017 04:05	02/25/2017 04:05	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*99.6 %*	*72-118*

Sample Information

Client Sample ID: Admin Wing Basement **York Sample ID:** 17B0862-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0862	16-35984	Indoor Ambient Air	February 22, 2017 3:00 pm	02/24/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.84	0.84	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:			

Sample Information

Client Sample ID: **Admin Wing Basement** **York Sample ID:** **17B0862-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0862	16-35984	Indoor Ambient Air	February 22, 2017 3:00 pm	02/24/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.67	0.67	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.84	0.84	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.94	0.94	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.67	0.67	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.49	0.49	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.48	0.48	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.91	0.91	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
95-63-6	**1,2,4-Trimethylbenzene**	**0.72**		ug/m³	0.60	0.60	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.94	0.94	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.73	0.73	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.49	0.49	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.56	0.56	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.85	0.85	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.60	0.60	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
106-99-0	1,3-Butadiene	ND		ug/m³	0.81	0.81	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.73	0.73	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.56	0.56	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.73	0.73	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
123-91-1	1,4-Dioxane	ND		ug/m³	0.88	0.88	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
78-93-3	**2-Butanone**	**2.4**		ug/m³	0.36	0.36	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			
591-78-6	* 2-Hexanone	ND		ug/m³	1.0	1.0	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:			
107-05-1	3-Chloropropene	ND		ug/m³	1.9	1.9	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que			

Sample Information

Client Sample ID: **Admin Wing Basement** **York Sample ID:** **17B0862-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0862	16-35984	Indoor Ambient Air	February 22, 2017 3:00 pm	02/24/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.50	0.50	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
67-64-1	**Acetone**	**16**		ug/m³	0.58	0.58	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
107-13-1	Acrylonitrile	ND		ug/m³	0.26	0.26	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
71-43-2	**Benzene**	**0.51**		ug/m³	0.39	0.39	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
100-44-7	Benzyl chloride	ND		ug/m³	0.63	0.63	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-27-4	Bromodichloromethane	ND		ug/m³	0.82	0.82	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-25-2	Bromoform	ND		ug/m³	1.3	1.3	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
74-83-9	Bromomethane	ND		ug/m³	0.47	0.47	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-15-0	Carbon disulfide	ND		ug/m³	0.38	0.38	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
56-23-5	**Carbon tetrachloride**	**0.38**		ug/m³	0.19	0.19	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
108-90-7	Chlorobenzene	ND		ug/m³	0.56	0.56	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-00-3	Chloroethane	ND		ug/m³	0.32	0.32	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
67-66-3	Chloroform	ND		ug/m³	0.60	0.60	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
74-87-3	**Chloromethane**	**1.3**		ug/m³	0.25	0.25	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.48	0.48	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.55	0.55	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
110-82-7	Cyclohexane	ND		ug/m³	0.42	0.42	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
124-48-1	Dibromochloromethane	ND		ug/m³	1.0	1.0	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-71-8	**Dichlorodifluoromethane**	**4.6**		ug/m³	0.60	0.60	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
141-78-6	*** Ethyl acetate**	**2.3**		ug/m³	0.88	0.88	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:			
100-41-4	**Ethyl Benzene**	**0.58**		ug/m³	0.53	0.53	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.3	1.3	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		

Sample Information

Client Sample ID: **Admin Wing Basement** **York Sample ID:** **17B0862-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0862	16-35984	Indoor Ambient Air	February 22, 2017 3:00 pm	02/24/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-63-0	**Isopropanol**	**9.2**		ug/m³	0.60	0.60	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
80-62-6	Methyl Methacrylate	ND		ug/m³	0.50	0.50	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.44	0.44	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-09-2	**Methylene chloride**	**1.0**		ug/m³	0.85	0.85	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
142-82-5	n-Heptane	ND		ug/m³	0.50	0.50	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
110-54-3	n-Hexane	ND		ug/m³	0.43	0.43	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
95-47-6	**o-Xylene**	**0.58**		ug/m³	0.53	0.53	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
179601-23-1	**p- & m- Xylenes**	**1.9**		ug/m³	1.1	1.1	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
622-96-8	* **p-Ethyltoluene**	**0.72**		ug/m³	0.60	0.60	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.21	0.21	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:			
100-42-5	Styrene	ND		ug/m³	0.52	0.52	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
127-18-4	**Tetrachloroethylene**	**0.66**		ug/m³	0.21	0.21	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.72	0.72	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:			
108-88-3	**Toluene**	**4.2**		ug/m³	0.46	0.46	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.48	0.48	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.55	0.55	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
79-01-6	Trichloroethylene	ND		ug/m³	0.16	0.16	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**24**		ug/m³	0.69	0.69	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
108-05-4	Vinyl acetate	ND		ug/m³	0.43	0.43	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
593-60-2	Vinyl bromide	ND		ug/m³	0.53	0.53	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-01-4	Vinyl Chloride	ND		ug/m³	0.31	0.31	1.221	EPA TO-15	02/25/2017 05:06	02/25/2017 05:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*101 %*	*72-118*

Sample Information

Client Sample ID: **Admin Wing Basement** **York Sample ID:** **17B0862-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0862	16-35984	Indoor Ambient Air	February 22, 2017 3:00 pm	02/24/2017

Sample Information

Client Sample ID: **South 1st Floor Cafeteria "A"** **York Sample ID:** **17B0862-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0862	16-35984	Indoor Ambient Air	February 22, 2017 3:00 pm	02/24/2017

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.73	0.73	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.58	0.58	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.73	0.73	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.81	0.81	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.58	0.58	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.43	0.43	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.42	0.42	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.79	0.79	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.52	0.52	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.82	0.82	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.64	0.64	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.43	0.43	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.49	0.49	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.74	0.74	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.52	0.52	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
106-99-0	1,3-Butadiene	ND		ug/m³	0.70	0.70	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.64	0.64	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		

Sample Information

Client Sample ID: South 1st Floor Cafeteria "A" **York Sample ID:** 17B0862-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0862	16-35984	Indoor Ambient Air	February 22, 2017 3:00 pm	02/24/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.49	0.49	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.64	0.64	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
123-91-1	1,4-Dioxane	ND		ug/m³	0.77	0.77	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
78-93-3	**2-Butanone**	**0.44**		ug/m³	0.31	0.31	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
591-78-6	* 2-Hexanone	ND		ug/m³	0.87	0.87	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:			
107-05-1	3-Chloropropene	ND		ug/m³	1.7	1.7	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.44	0.44	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
67-64-1	**Acetone**	**4.5**		ug/m³	0.50	0.50	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
107-13-1	Acrylonitrile	ND		ug/m³	0.23	0.23	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
71-43-2	**Benzene**	**0.61**		ug/m³	0.34	0.34	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
100-44-7	Benzyl chloride	ND		ug/m³	0.55	0.55	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-27-4	Bromodichloromethane	ND		ug/m³	0.71	0.71	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-25-2	Bromoform	ND		ug/m³	1.1	1.1	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
74-83-9	Bromomethane	ND		ug/m³	0.41	0.41	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-15-0	Carbon disulfide	ND		ug/m³	0.33	0.33	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
56-23-5	**Carbon tetrachloride**	**0.40**		ug/m³	0.17	0.17	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
108-90-7	Chlorobenzene	ND		ug/m³	0.49	0.49	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-00-3	Chloroethane	ND		ug/m³	0.28	0.28	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
67-66-3	Chloroform	ND		ug/m³	0.52	0.52	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
74-87-3	**Chloromethane**	**1.3**		ug/m³	0.22	0.22	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.42	0.42	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.48	0.48	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		

Sample Information

Client Sample ID: South 1st Floor Cafeteria "A" **York Sample ID:** 17B0862-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0862	16-35984	Indoor Ambient Air	February 22, 2017 3:00 pm	02/24/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
110-82-7	Cyclohexane	ND		ug/m³	0.37	0.37	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
124-48-1	Dibromochloromethane	ND		ug/m³	0.90	0.90	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-71-8	**Dichlorodifluoromethane**	**2.0**		ug/m³	0.53	0.53	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
141-78-6	* Ethyl acetate	ND		ug/m³	0.77	0.77	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:			
100-41-4	Ethyl Benzene	ND		ug/m³	0.46	0.46	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.1	1.1	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
67-63-0	Isopropanol	ND		ug/m³	0.52	0.52	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
80-62-6	Methyl Methacrylate	ND		ug/m³	0.43	0.43	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.38	0.38	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-09-2	Methylene chloride	ND		ug/m³	0.74	0.74	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
142-82-5	n-Heptane	ND		ug/m³	0.44	0.44	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
110-54-3	n-Hexane	ND		ug/m³	0.37	0.37	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
95-47-6	o-Xylene	ND		ug/m³	0.46	0.46	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
179601-23-1	p- & m- Xylenes	ND		ug/m³	0.92	0.92	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.52	0.52	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.18	0.18	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:			
100-42-5	Styrene	ND		ug/m³	0.45	0.45	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
127-18-4	**Tetrachloroethylene**	**0.22**		ug/m³	0.18	0.18	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.63	0.63	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:			
108-88-3	**Toluene**	**0.48**		ug/m³	0.40	0.40	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.42	0.42	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.48	0.48	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		

Sample Information

Client Sample ID: South 1st Floor Cafeteria "A" **York Sample ID:** 17B0862-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0862	16-35984	Indoor Ambient Air	February 22, 2017 3:00 pm	02/24/2017

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	Trichloroethylene	ND		ug/m³	0.14	0.14	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.8**		ug/m³	0.60	0.60	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
108-05-4	Vinyl acetate	ND		ug/m³	0.37	0.37	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
593-60-2	Vinyl bromide	ND		ug/m³	0.46	0.46	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-01-4	Vinyl Chloride	ND		ug/m³	0.27	0.27	1.062	EPA TO-15	02/25/2017 06:06	02/25/2017 06:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*99.1 %*	*72-118*

Sample Information

Client Sample ID: Ambient **York Sample ID:** 17B0862-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0862	16-35984	Outdoor Ambient Air	February 22, 2017 3:00 pm	02/24/2017

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.69	0.69	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.55	0.55	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.69	0.69	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.77	0.77	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.55	0.55	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.40	0.40	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.40	0.40	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.74	0.74	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.49	0.49	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		

Sample Information

Client Sample ID: **Ambient** **York Sample ID:** **17B0862-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0862	16-35984	Outdoor Ambient Air	February 22, 2017 3:00 pm	02/24/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.77	0.77	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.60	0.60	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.40	0.40	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.46	0.46	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.70	0.70	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.49	0.49	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
106-99-0	1,3-Butadiene	ND		ug/m³	0.66	0.66	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.60	0.60	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.46	0.46	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.60	0.60	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
123-91-1	1,4-Dioxane	ND		ug/m³	0.72	0.72	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
78-93-3	**2-Butanone**	**0.47**		ug/m³	0.29	0.29	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
591-78-6	* 2-Hexanone	ND		ug/m³	0.82	0.82	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:			
107-05-1	3-Chloropropene	ND		ug/m³	1.6	1.6	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.41	0.41	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
67-64-1	**Acetone**	**5.8**		ug/m³	0.48	0.48	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
107-13-1	Acrylonitrile	ND		ug/m³	0.22	0.22	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
71-43-2	**Benzene**	**0.35**		ug/m³	0.32	0.32	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
100-44-7	Benzyl chloride	ND		ug/m³	0.52	0.52	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-27-4	Bromodichloromethane	ND		ug/m³	0.67	0.67	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-25-2	Bromoform	ND		ug/m³	1.0	1.0	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
74-83-9	Bromomethane	ND		ug/m³	0.39	0.39	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		

Sample Information

Client Sample ID: **Ambient** **York Sample ID:** **17B0862-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0862	16-35984	Outdoor Ambient Air	February 22, 2017 3:00 pm	02/24/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-15-0	Carbon disulfide	ND		ug/m³	0.31	0.31	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
56-23-5	**Carbon tetrachloride**	**0.31**		ug/m³	0.16	0.16	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
108-90-7	Chlorobenzene	ND		ug/m³	0.46	0.46	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-00-3	Chloroethane	ND		ug/m³	0.26	0.26	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
67-66-3	Chloroform	ND		ug/m³	0.49	0.49	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
74-87-3	**Chloromethane**	**1.2**		ug/m³	0.21	0.21	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.40	0.40	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.45	0.45	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
110-82-7	Cyclohexane	ND		ug/m³	0.34	0.34	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
124-48-1	Dibromochloromethane	ND		ug/m³	0.85	0.85	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-71-8	**Dichlorodifluoromethane**	**1.9**		ug/m³	0.49	0.49	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
141-78-6	* Ethyl acetate	ND		ug/m³	0.72	0.72	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:			
100-41-4	Ethyl Benzene	ND		ug/m³	0.43	0.43	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.1	1.1	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
67-63-0	Isopropanol	ND		ug/m³	0.49	0.49	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
80-62-6	Methyl Methacrylate	ND		ug/m³	0.41	0.41	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.36	0.36	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-09-2	Methylene chloride	ND		ug/m³	0.69	0.69	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
142-82-5	n-Heptane	ND		ug/m³	0.41	0.41	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
110-54-3	n-Hexane	ND		ug/m³	0.35	0.35	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
95-47-6	o-Xylene	ND		ug/m³	0.43	0.43	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
179601-23-1	p- & m- Xylenes	ND		ug/m³	0.87	0.87	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		

Sample Information

Client Sample ID: **Ambient** **York Sample ID:** **17B0862-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0862	16-35984	Outdoor Ambient Air	February 22, 2017 3:00 pm	02/24/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.49	0.49	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.17	0.17	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:			
100-42-5	Styrene	ND		ug/m³	0.43	0.43	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
127-18-4	**Tetrachloroethylene**	**0.34**		ug/m³	0.17	0.17	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.59	0.59	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:			
108-88-3	**Toluene**	**0.45**		ug/m³	0.38	0.38	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.40	0.40	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.45	0.45	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
79-01-6	Trichloroethylene	ND		ug/m³	0.13	0.13	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**2.0**		ug/m³	0.56	0.56	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
108-05-4	Vinyl acetate	ND		ug/m³	0.35	0.35	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
593-60-2	Vinyl bromide	ND		ug/m³	0.44	0.44	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-01-4	Vinyl Chloride	ND		ug/m³	0.26	0.26	1	EPA TO-15	02/25/2017 07:06	02/25/2017 07:06	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*92.9 %*	*72-118*

Notes and Definitions

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

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*	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.

Field Chain-of-Custody Record - AIR

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.

York Project No. 17B0862

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverables
Company: S.C. Broderick	Company: JCB	Company: JCB	16-35984	RUSH - Same Day ☐	Summary Report ✓
Address: 1775 Expressway Dr. N Hauppauge, NY 11788	Address:	Address:		RUSH - Next Day ☐	Summary w/ QA Summary
Phone No.	Phone No.	Phone No.	Purchase Order No.	RUSH - Two Day ☐	CT RCP Package
Contact Person: Steven Muller	Attention:	Attention:		RUSH - Three Day ☐	NY ASP A Package
E-Mail Address: smuller@scbroderick.com	E-Mail Address:	E-Mail Address:	Samples from: CT ___ NY ✓ NJ ___	RUSH - Four Day ☐	NY ASP B/CLP Pkg
				Standard(5-7 Days) ✓	NJDEP Reduced
					Electronic Deliverables:
					EDD (Specify Type)
					Standard Excel
					Regulatory Comparison Excel

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)

C. Dustin Dawson
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 X
(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
South Subsurface	2/22/17	AS	30	8	17349	Y28	TO-15 + He	6 Liter canister ✓ Tedlar Bag
South Crawlspace		AI	28	3	20755	5123	TO-15	6 Liter canister ✓ Tedlar Bag
North Subsurface		AS	29	5	20665	5118	TO-15 + He	6 Liter canister ✓ Tedlar Bag
North Crawlspace		AI	29	3	18313	5416	TO-15	6 Liter canister ✓ Tedlar Bag
Admin Wing Basement		AI	19	11	20944	7609	TO-15	6 Liter canister ✓ Tedlar Bag
South 1st Flor Cafeteria "A"		AI	27	2	23197	5378	TO-15	6 Liter canister ✓ Tedlar Bag
Ambient		AO	29	2	18294	5379	TO-15	6 Liter canister ✓ Tedlar Bag
								6 Liter canister ___ Tedlar Bag
								6 Liter canister ___ Tedlar Bag
								6 Liter canister ___ Tedlar Bag

Comments
"Bethpage HS"
10 CHERRY AVE.
BETHPAGE, NY

Samples Relinquished By — Date/Time: 2/22/17 1220 pm
Samples Relinquished By — Date/Time: 2/24/17 330pm

Samples Received By — Date/Time: 2/24/17 1220 pm
Samples Received in LAB by — Date/Time: 2/24/17 1530

Technical Report

prepared for:

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

Report Date: 03/08/2017
Client Project ID: 16-35984
York Project (SDG) No.: 17B0941

Report Date: 03/08/2017
Client Project ID: 16-35984
York Project (SDG) No.: 17B0941

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 27, 2017 and listed below. The project was identified as your project: **16-35984**.

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 Notes 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 attachment to 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
17B0941-01	MW-1	Water	02/24/2017	02/27/2017
17B0941-02	MW-2	Water	02/24/2017	02/27/2017
17B0941-03	MW-3	Water	02/24/2017	02/27/2017

General Notes for York Project (SDG) No.: 17B0941

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 samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
9. 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: 03/08/2017

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: MW-1 **York Sample ID:** 17B0941-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0941	16-35984	Water	February 24, 2017 3:00 pm	02/27/2017

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	NELAC-NY10854,NJDEP		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	NELAC-NY10854,NJDEP		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	NELAC-NY10854,NJDEP		
527-53-7	1,2,4,5-Tetramethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	NELAC-NY10854		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	NELAC-NY10854,NJDEP		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		

Sample Information

Client Sample ID: MW-1 **York Sample ID:** 17B0941-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0941	16-35984	Water	February 24, 2017 3:00 pm	02/27/2017

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	NELAC-NY10854,NJDEP		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	NELAC-NY10854,NJDEP		
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	NELAC-NY10854,NJDEP		
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
67-64-1	**Acetone**	**1.5**	J, B	ug/L	1.0	2.0	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	NELAC-NY10854,NJDEP		
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	NELAC-NY10854,NJDEP		
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		

Sample Information

Client Sample ID: MW-1 **York Sample ID:** 17B0941-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0941	16-35984	Water	February 24, 2017 3:00 pm	02/27/2017

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	NELAC-NY10854,NJDEP		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	NELAC-NY10854,NJDEP		
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	NELAC-NY10854,NJDEP		
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	NELAC-NY10854,NJDEP		
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	NELAC-NY10854		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	NELAC-NY10854		
105-05-5	p-Diethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	NELAC-NY10854		
622-96-8	p-Ethyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	NELAC-NY10854		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		

Sample Information

Client Sample ID: MW-1 **York Sample ID:** 17B0941-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0941	16-35984	Water	February 24, 2017 3:00 pm	02/27/2017

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
108-88-3	**Toluene**	**6.1**		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications: CTDOH,NJDEP			
75-45-6	* Chlorodifluoromethane (Freon 22)	ND		ug/L	0.80	2.0	1	EPA 8260C	03/07/2017 10:38	03/07/2017 15:51	BK
								Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*86.9 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*96.4 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*101 %*	*79-122*

Sample Information

Client Sample ID: MW-2 **York Sample ID:** 17B0941-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0941	16-35984	Water	February 24, 2017 3:00 pm	02/27/2017

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications: CTDOH,NELAC-NY10854,NJDEP			

Sample Information

Client Sample ID: MW-2 **York Sample ID:** 17B0941-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0941	16-35984	Water	February 24, 2017 3:00 pm	02/27/2017

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	03/07/2017 10:38	03/07/2017 16:21	BK CTDOH,NELAC-NY10854,NJDEP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	03/07/2017 10:38	03/07/2017 16:21	BK CTDOH,NELAC-NY10854,NJDEP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	03/07/2017 10:38	03/07/2017 16:21	BK CTDOH,NELAC-NY10854,NJDEP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	03/07/2017 10:38	03/07/2017 16:21	BK CTDOH,NELAC-NY10854,NJDEP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	03/07/2017 10:38	03/07/2017 16:21	BK NELAC-NY10854,NJDEP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	03/07/2017 10:38	03/07/2017 16:21	BK NELAC-NY10854,NJDEP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	03/07/2017 10:38	03/07/2017 16:21	BK NELAC-NY10854,NJDEP
527-53-7	1,2,4,5-Tetramethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	03/07/2017 10:38	03/07/2017 16:21	BK NELAC-NY10854
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	03/07/2017 10:38	03/07/2017 16:21	BK NELAC-NY10854,NJDEP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	03/07/2017 10:38	03/07/2017 16:21	BK CTDOH,NELAC-NY10854,NJDEP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	03/07/2017 10:38	03/07/2017 16:21	BK CTDOH,NELAC-NY10854,NJDEP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	03/07/2017 10:38	03/07/2017 16:21	BK CTDOH,NELAC-NY10854,NJDEP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	03/07/2017 10:38	03/07/2017 16:21	BK CTDOH,NELAC-NY10854,NJDEP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	03/07/2017 10:38	03/07/2017 16:21	BK CTDOH,NELAC-NY10854,NJDEP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	03/07/2017 10:38	03/07/2017 16:21	BK CTDOH,NELAC-NY10854,NJDEP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	03/07/2017 10:38	03/07/2017 16:21	BK CTDOH,NELAC-NY10854,NJDEP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	03/07/2017 10:38	03/07/2017 16:21	BK CTDOH,NELAC-NY10854,NJDEP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	03/07/2017 10:38	03/07/2017 16:21	BK NELAC-NY10854,NJDEP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	03/07/2017 10:38	03/07/2017 16:21	BK CTDOH,NELAC-NY10854,NJDEP
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications:	03/07/2017 10:38	03/07/2017 16:21	BK NELAC-NY10854,NJDEP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	03/07/2017 10:38	03/07/2017 16:21	BK NELAC-NY10854,NJDEP

Sample Information

Client Sample ID: MW-2 **York Sample ID:** 17B0941-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0941	16-35984	Water	February 24, 2017 3:00 pm	02/27/2017

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
67-64-1	**Acetone**	**1.2**	J, B	ug/L	1.0	2.0	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	NELAC-NY10854,NJDEP		
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	NELAC-NY10854,NJDEP		
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		

Sample Information

Client Sample ID: MW-2 **York Sample ID:** 17B0941-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0941	16-35984	Water	February 24, 2017 3:00 pm	02/27/2017

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	NELAC-NY10854,NJDEP		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	NELAC-NY10854,NJDEP		
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	NELAC-NY10854,NJDEP		
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	NELAC-NY10854,NJDEP		
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	NELAC-NY10854		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	NELAC-NY10854		
105-05-5	p-Diethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	NELAC-NY10854		
622-96-8	p-Ethyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	NELAC-NY10854		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
108-88-3	**Toluene**	**1.9**		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:21	BK
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		

Sample Information

Client Sample ID: MW-2 **York Sample ID:** 17B0941-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0941	16-35984	Water	February 24, 2017 3:00 pm	02/27/2017

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:21	BK
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:21	BK
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:21	BK
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:21	BK
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	03/07/2017 10:38	03/07/2017 16:21	BK
75-45-6	*** Chlorodifluoromethane (Freon 22)**	**0.90**	J	ug/L	0.80	2.0	1	EPA 8260C Certifications:	03/07/2017 10:38	03/07/2017 16:21	BK

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*90.0 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*96.6 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*100 %*	*79-122*

Sample Information

Client Sample ID: MW-3 **York Sample ID:** 17B0941-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0941	16-35984	Water	February 24, 2017 3:00 pm	02/27/2017

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK

Sample Information

Client Sample ID: MW-3 **York Sample ID:** 17B0941-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0941	16-35984	Water	February 24, 2017 3:00 pm	02/27/2017

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:51	BK
								Certifications: NELAC-NY10854,NJDEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:51	BK
								Certifications: NELAC-NY10854,NJDEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:51	BK
								Certifications: NELAC-NY10854,NJDEP			
527-53-7	1,2,4,5-Tetramethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:51	BK
								Certifications: NELAC-NY10854			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:51	BK
								Certifications: NELAC-NY10854,NJDEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:51	BK
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:51	BK
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:51	BK
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:51	BK
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:51	BK
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:51	BK
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:51	BK
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:51	BK
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:51	BK
								Certifications: NELAC-NY10854,NJDEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:51	BK
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:51	BK
								Certifications: NELAC-NY10854,NJDEP			
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:51	BK
								Certifications: NELAC-NY10854,NJDEP			
78-93-3	**2-Butanone**	**0.21**	J	ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:51	BK
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:51	BK
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:51	BK
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	03/07/2017 10:38	03/07/2017 16:51	BK
								Certifications: CTDOH,NELAC-NY10854,NJDEP			

Sample Information

Client Sample ID: **MW-3** **York Sample ID:** **17B0941-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0941	16-35984	Water	February 24, 2017 3:00 pm	02/27/2017

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
67-64-1	**Acetone**	**1.2**	J, B	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
67-66-3	**Chloroform**	**0.30**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK

Sample Information

Client Sample ID: MW-3 **York Sample ID:** 17B0941-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0941	16-35984	Water	February 24, 2017 3:00 pm	02/27/2017

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	03/07/2017 10:38	03/07/2017 16:51	BK
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	03/07/2017 10:38	03/07/2017 16:51	BK
105-05-5	p-Diethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	03/07/2017 10:38	03/07/2017 16:51	BK
622-96-8	p-Ethyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	03/07/2017 10:38	03/07/2017 16:51	BK
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	03/07/2017 10:38	03/07/2017 16:51	BK

Sample Information

Client Sample ID: MW-3 **York Sample ID:** 17B0941-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17B0941	16-35984	Water	February 24, 2017 3:00 pm	02/27/2017

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-45-6	*** Chlorodifluoromethane (Freon 22)**	**3.8**		ug/L	0.80	2.0	1	EPA 8260C Certifications:	03/07/2017 10:38	03/07/2017 16:51	BK

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*88.3 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*97.2 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*100 %*	*79-122*

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
17B0941-01	MW-1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
17B0941-02	MW-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
17B0941-03	MW-3	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Notes and Definitions

J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

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*	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
YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

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.

York Project No. 18B0941

YOUR Information

Company: JC Broderick & Associates
Address: 1775 Express Dr. N
Hauppauge, NY 11788
Phone No. 631-584-5492
Contact Person: Steve Muller
E-Mail Address: smuller@JCBroderick.com

Report To:

Company: JCB
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:

Company: JCB
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID

16-35984

Purchase Order No.

Samples from: CT ___ NY X NJ ___

Turn-Around Time

- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☐
- RUSH - Four Day ☐
- Standard(5-7 Days) ☒

Report Type

- Summary Report X
- Summary w/ QA Summary
- CT RCP Package
- CTRCP DQA/DUE Pkg
- NY ASP A Package
- NY ASP B Package
- NJDEP Red. Deliv.

Electronic Data Deliverables (EDD)

- Simple Excel
- NYSDEC EQuIS
- EQuIS (std)
- EZ-EDD (EQuIS)
- NJDEP SRP HazSite EDD
- GIS/KEY (std)
- Other

York Regulatory Comparison
Excel Spreadsheet
Compare to the following Regs. (please fill in):

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)

Name (printed)

Matrix Codes

S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded No Dioxins/Furans	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
MW-1	2-24-17	GW	EPA 8260 + Freon 12 + Freon 22	3-40ml VOAs
MW-2	2-24-17	GW	↓	↓
MW-3	2-24-17	GW	↓	↓

Comments

Bethpage H.S
10 Cherry Ave
Bethpage, NY

Preservation Check those Applicable

Special Instructions
Field Filtered ☐
Lab to Filter ☐

4°C X Frozen ___ HCl X MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___
ZnAc Ascorbic Acid Other

Samples Relinquished By — Date/Time: 2-24-17
Samples Relinquished By — Date/Time:

Samples Received By — Date/Time: 2/27/17 3:10pm
Samples Received in LAB by — Date/Time: 2/27/17 1853

Temperature on Receipt 1.4 °C

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (800)220-3675 / (856)786-0327
http://www.emsl.com cinnaminsonradonlab@emsl.com

EMSL Order #: **781700137**
Customer ID: **JCBR50**
Customer PO:

Attn: **Steven Muller**
J.C. Broderick & Associates
1775 Expressway Drive North, Suite 1
Hauppauge, NY 11788

Phone: **631-584-5492**
Fax: **Not Available**

Project: **MW-1**

Collected: **02/24/2017**
Received: **02/28/2017**

NELAC Certification #: ***03036***

Analytical Report

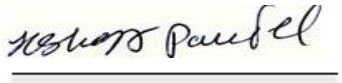
Sample Identification: MW-1 ***Lab Sample #: 781700137-0001*** ***Date/Time Collected: 2/24/2017 10:00 AM***

Test Parameter	***Result pCi/L***	***Uncertainty pCi/L***	***SDWA DL pCi/L***	***Start Count Date/ Time***	***Analyst***	***Status Count***	***Method***
Radium 226	*5.29*	*0.32*	*0.65*	*3/21/17 11:51 AM*	*KP*	*First Count*	*EPA 903.0*
Radium 228	*10.43*	*0.92*	*0.80*	*3/6/17 4:51 PM*	*KP*	*First Count*	*EPA 904*

* All analysis met quality control acceptance criteria unless otherwise specified.

* When Ra-226 activity > 5 pCi/L, the report is not reportable by this method. The listed activity can be used for information only.

Report Date	**Report Revision**	**Revision Comments**
03/22/2017	R0	Initial Report



Kishor Paudel, **Laboratory Manager**

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (800)220-3675 / (856)786-0327
http://www.emsl.com cinnaminsonradonlab@emsl.com

EMSL Order #: **781700138**
Customer ID: **JCBR50**
Customer PO:

Attn: **Steven Muller**
J.C. Broderick & Associates
1775 Expressway Drive North, Suite 1
Hauppauge, NY 11788

Phone: **631-584-5492**
Fax: **Not Available**

Project: **MW-2**

Collected: **02/24/2017**
Received: **02/28/2017**

NELAC Certification #: ***03036***

Analytical Report

Sample Identification: MW-2 ***Lab Sample #: 781700138-0001*** ***Date/Time Collected: 2/24/2017 10:00 AM***

Test Parameter	***Result pCi/L***	***Uncertainty pCi/L***	***SDWA DL pCi/L***	***Start Count Date/ Time***	***Analyst***	***Status Count***	***Method***
Radium 226	*7.52*	*0.39*	*0.68*	*3/21/17 11:51 AM*	*KP*	*First Count*	*EPA 903.0*
Radium 228	*17.22*	*1.40*	*0.79*	*3/6/17 4:51 PM*	*KP*	*First Count*	*EPA 904*

* All analysis met quality control acceptance criteria unless otherwise specified.

* When Ra-226 activity > 5 pCi/L, the report is not reportable by this method. The listed activity can be used for information only.

Report Date	**Report Revision**	**Revision Comments**
03/22/2017	R0	Initial Report

Kishor Paudel, **Laboratory Manager**

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (800)220-3675 / (856)786-0327
http://www.emsl.com cinnaminsonradonlab@emsl.com

EMSL Order #: **781700139**
Customer ID: **JCBR50**
Customer PO:

Attn: **Steven Muller**
J.C. Broderick & Associates
1775 Expressway Drive North, Suite 1
Hauppauge, NY 11788

Phone: **631-584-5492**
Fax: **Not Available**

Project: **MW-3**

Collected: **02/24/2017**
Received: **02/28/2017**

NELAC Certification #: ***03036***

Analytical Report

Sample Identification: MW-3 ***Lab Sample #: 781700139-0001*** ***Date/Time Collected: 2/24/2017 10:00 AM***

Test Parameter	***Result pCi/L***	***Uncertainty pCi/L***	***SDWA DL pCi/L***	***Start Count Date/ Time***	***Analyst***	***Status Count***	***Method***
Radium 226	*3.73*	*0.26*	*0.61*	*3/21/17 4:35 PM*	*KP*	*First Count*	*EPA 903.0*
Radium 228	*6.73*	*0.66*	*0.72*	*3/6/17 4:51 PM*	*KP*	*First Count*	*EPA 904*

* All analysis met quality control acceptance criteria unless otherwise specified.

* When Ra-226 activity > 5 pCi/L, the report is not reportable by this method. The listed activity can be used for information only.

Report Date	**Report Revision**	**Revision Comments**
03/22/2017	R0	Initial Report

Kishor Paudel, **Laboratory Manager**

Radiochemical Analysis
Chain of Custody

EMSL Order Number (Lab Use Only): [redacted] 78170-

RECEIVED
EMSL
CINNAMINSON, NJ
17 FEB 28 AM 10:40

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
Ph. (800) 220-3675
Fax (856) 786-0327

Contact Name:	STEVEN MULLER	Bill To Company:	SAME	Sampled By (Sign):	
Company Name:	J.C. BRODERICK & ASSOCIATES	Attention To:	SAME	Sampled By (Name):	STEVEN MULLER
Address:	1775 EXPRESSWAY DR. N	Address:		Total # of Samples:	3
City: HAUPPAUGE	State: NY Zip Code: 11788	City:	State: Zip Code:	Date of Shipping:	2/27/17
Phone No. :	631-584-5492 Fax : 631-684-3995	Phone No.:	Fax :	Sample State/ Zip Code:	NY/ 11788
Email Results To:	SMULLER@JCBRODERICK.COM	Project Name:	BETHPAGE HIGH SCHOOL	Purchase Order:	N/A

Turn Around Time: ☐ 3 weeks (Standard) Client Specific: ☐ 48 Hours ☐ 96 Hours ☐ 1 week ☐ 2 weeks ☒ 4 Weeks

Field Use - All Information Required! / **Analytes**

Client Sample ID	Lab ID (For Lab Use only)	Matrix	Size (mL g)	Date/Time	Gross Alpha: NJ 48 Hrs	Gross Alpha: EPA 900	Gross Beta	Ra-228	Ra-226	Total Uranium	Gamma Emitters	Actinides (U, Th, Pu, Am)	Sr-89, Sr-90	I-131	Radon	Tritium	Note
0137 MW-1		L	1000	2/24/17				X	X								
0138 MW-2		L	1000	2/24/17				X	X								
0139 MW-3		L	1000	2/24/17				X	X								

Report Requirement* : ☒ Level One ☐ Level Two ☐ Level Three

Relinquished by:	Date/ Time	Received by:	Date/ Time		Note
	2/27/17		2/28/17	9:30 AM	

*Level One =Results only; Level Two = Results and QC; Level Three = Results, QC, Logs, Worksheets, Printout/Spectrum and Calibrations.

OrderID: 781700139

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-0327
http://www.EMSL.com cinnaminsonradonlab@emsl.com

EMSL Order:	381703842
CustomerID:	JCBR50
CustomerPO:	16-35984
ProjectID:	

Attn: **Ed McGuire**
J.C. Broderick & Associates
1775 Expressway Drive North
Hauppauge, NY 11788

Phone:	(631) 584-5492
Fax:	
Received:	04/18/17 6:55 PM
Analysis Date:	4/19/2017
Collected:	4/12/2017

Project: **16-35984 / Bethpage Admin & HS**

Test Site: **Bethpage Admin & HS**
10 Cherry Avenue
Bethpage, NY 11714

Test Report: Radon in Air Test Results

Samples for EMSL Kit 165563

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
283928	Rm 002	0	4/12/2017	4/17/2017	72	30	Blank
381703842-0001			3:44:00 PM	8:05:00 AM			
Sample Notes: Radon device exposed >96 hours							
283834	Rm 002	3.8	4/12/2017	4/17/2017	72	30	Customer
381703842-0002			3:44:00 PM	8:05:00 AM			
Sample Notes: Radon device exposed >96 hours							

Samples for EMSL Kit 165553

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
283758	Rm 001	0.1	4/12/2017	4/17/2017	72	40	Blank
381703842-0003			3:45:00 PM	8:06:00 AM			
Sample Notes: Radon device exposed >96 hours							
283724	Rm 001	1.9	4/12/2017	4/17/2017	72	40	Customer
381703842-0004			3:45:00 PM	8:06:00 AM			
Sample Notes: Radon device exposed >96 hours							

Samples for EMSL Kit 165552

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
283861	Rm 004	0	4/12/2017	4/17/2017	72	30	Blank
381703842-0005			3:47:00 PM	8:07:00 AM			
Sample Notes: Radon device exposed >96 hours							
283801	Rm 004	1.2	4/12/2017	4/17/2017	72	30	Customer
381703842-0006			3:47:00 PM	8:07:00 AM			
Sample Notes: Radon device exposed >96 hours							

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EMSL Order:	381703842
CustomerID:	JCBR50
CustomerPO:	16-35984
ProjectID:	

Attn: **Ed McGuire**
J.C. Broderick & Associates
1775 Expressway Drive North
Hauppauge, NY 11788

Phone:	(631) 584-5492
Fax:	
Received:	04/18/17 6:55 PM
Analysis Date:	4/19/2017
Collected:	4/12/2017

Project: **16-35984 / Bethpage Admin & HS**

Test Site: **Bethpage Admin & HS**
10 Cherry Avenue
Bethpage, NY 11714

Test Report: Radon in Air Test Results

Samples for EMSL Kit 165554

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
283848	Hall 014	0.04	4/12/2017	4/17/2017	74	30	Blank
381703842-0007			3:48:00 PM	8:03:00 AM			
Sample Notes: Radon device exposed >96 hours							
283804	Hall 014	1.1	4/12/2017	4/17/2017	74	30	Customer
381703842-0008			3:48:00 PM	8:03:00 AM			
Sample Notes: Radon device exposed >96 hours							

Samples for EMSL Kit 165562

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
283819	Rm 006	0.04	4/12/2017	4/17/2017	72	40	Blank
381703842-0009			3:49:00 PM	8:02:00 AM			
Sample Notes: Radon device exposed >96 hours							
283802	Rm 006	2.6	4/12/2017	4/17/2017	72	40	Customer
381703842-0010			3:49:00 PM	8:02:00 AM			
Sample Notes: Radon device exposed >96 hours							

Samples for EMSL Kit 165565

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
283770	Rm 007	0.1	4/12/2017	4/17/2017	74	20	Blank
381703842-0011			3:50:00 PM	8:01:00 AM			
Sample Notes: Radon device exposed >96 hours							
283772	Rm 007	2.4	4/12/2017	4/17/2017	74	20	Customer
381703842-0012			3:50:00 PM	8:01:00 AM			
Sample Notes: Radon device exposed >96 hours							

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EMSL Order:	381703842
CustomerID:	JCBR50
CustomerPO:	16-35984
ProjectID:	

Attn: **Ed McGuire**
J.C. Broderick & Associates
1775 Expressway Drive North
Hauppauge, NY 11788

Phone:	(631) 584-5492
Fax:	
Received:	04/18/17 6:55 PM
Analysis Date:	4/19/2017
Collected:	4/12/2017

Project: **16-35984 / Bethpage Admin & HS**

Test Site: **Bethpage Admin & HS**
10 Cherry Avenue
Bethpage, NY 11714

Test Report: Radon in Air Test Results

Samples for EMSL Kit 165556

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
283759	Rm 008	0	4/12/2017	4/17/2017	74	30	Blank
381703842-0013			3:50:00 PM	8:04:00 AM			
Sample Notes: Radon device exposed >96 hours							
283822	Rm 008	1.9	4/12/2017	4/17/2017	74	30	Customer
381703842-0014			3:50:00 PM	8:04:00 AM			
Sample Notes: Radon device exposed >96 hours							

Samples for EMSL Kit 165571

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
283723	Rm 013A / B	0.04	4/12/2017	4/17/2017	72	30	Blank
381703842-0015			3:51:00 PM	7:59:00 AM			
Sample Notes: Radon device exposed >96 hours							
283667	Rm 013A / B	1	4/12/2017	4/17/2017	72	30	Customer
381703842-0016			3:51:00 PM	7:59:00 AM			
Sample Notes: Radon device exposed >96 hours							

Samples for EMSL Kit 165569

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
283757	Hall 013	0.04	4/12/2017	4/17/2017	72	30	Blank
381703842-0017			3:52:00 PM	7:58:00 AM			
Sample Notes: Radon device exposed >96 hours							
283876	Hall 013	1.1	4/12/2017	4/17/2017	72	30	Customer
381703842-0018			3:52:00 PM	7:58:00 AM			
Sample Notes: Radon device exposed >96 hours							

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EMSL Order:	381703842
CustomerID:	JCBR50
CustomerPO:	16-35984
ProjectID:	

Attn: **Ed McGuire**
J.C. Broderick & Associates
1775 Expressway Drive North
Hauppauge, NY 11788

Phone:	(631) 584-5492
Fax:	
Received:	04/18/17 6:55 PM
Analysis Date:	4/19/2017
Collected:	4/12/2017

Project: **16-35984 / Bethpage Admin & HS**

Test Site: **Bethpage Admin & HS**
10 Cherry Avenue
Bethpage, NY 11714

Test Report: Radon in Air Test Results

Samples for EMSL Kit 165570

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
283771	Rm 013D	0.04	4/12/2017	4/17/2017	70	40	Blank
381703842-0019			3:54:00 PM	7:59:00 AM			
Sample Notes: Radon device exposed >96 hours							
283885	Rm 013D	1	4/12/2017	4/17/2017	70	40	Customer
381703842-0020			3:54:00 PM	7:59:00 AM			
Sample Notes: Radon device exposed >96 hours							

Samples for EMSL Kit 165548

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
283767	Rm 013E	0.04	4/12/2017	4/17/2017	74	30	Blank
381703842-0021			3:55:00 PM	8:00:00 AM			
Sample Notes: Radon device exposed >96 hours							
283803	Rm 013E	0.9	4/12/2017	4/17/2017	74	30	Customer
381703842-0022			3:55:00 PM	8:00:00 AM			
Sample Notes: Radon device exposed >96 hours							

Samples for EMSL Kit 165543

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
283827	HS Rm 013	0.2	4/12/2017	4/17/2017	70	70	Blank
381703842-0023			4:08:00 PM	7:50:00 AM			
Sample Notes: Radon device exposed >96 hours							
283873	HS Rm 013	3.9	4/12/2017	4/17/2017	70	70	Customer
381703842-0024			4:08:00 PM	7:50:00 AM			
Sample Notes: Radon device exposed >96 hours							

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EMSL Order:	381703842
CustomerID:	JCBR50
CustomerPO:	16-35984
ProjectID:	

Attn: **Ed McGuire**
J.C. Broderick & Associates
1775 Expressway Drive North
Hauppauge, NY 11788

Phone:	(631) 584-5492
Fax:	
Received:	04/18/17 6:55 PM
Analysis Date:	4/19/2017
Collected:	4/12/2017

Project: **16-35984 / Bethpage Admin & HS**

Test Site: **Bethpage Admin & HS**
10 Cherry Avenue
Bethpage, NY 11714

Test Report: Radon in Air Test Results

Samples for EMSL Kit 165542

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
283749	HS Rm 013A	0.4	4/12/2017	4/17/2017	72	70	Blank
381703842-0025			4:08:00 PM	7:42:00 AM			
Sample Notes: Radon device exposed >96 hours							
283845	HS Rm 013A	0.5	4/12/2017	4/17/2017	72	70	Customer
381703842-0026			4:08:00 PM	7:42:00 AM			
Sample Notes: Radon device exposed >96 hours							

Samples for EMSL Kit 165544

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
283811	HS Rm 013B	0.4	4/12/2017	4/17/2017	70	70	Blank
381703842-0027			4:10:00 PM	7:43:00 AM			
Sample Notes: Radon device exposed >96 hours							
283823	HS Rm 013B	0.7	4/12/2017	4/17/2017	70	70	Customer
381703842-0028			4:10:00 PM	7:43:00 AM			
Sample Notes: Radon device exposed >96 hours							

Samples for EMSL Kit 165545

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
283830	HS Rm 013C	0.1	4/12/2017	4/17/2017	72	60	Blank
381703842-0029			4:12:00 PM	7:52:00 AM			
Sample Notes: Radon device exposed >96 hours							
283915	HS Rm 013C	0.6	4/12/2017	4/17/2017	72	60	Customer
381703842-0030			4:12:00 PM	7:52:00 AM			
Sample Notes: Radon device exposed >96 hours							

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EMSL Order:	381703842
CustomerID:	JCBR50
CustomerPO:	16-35984
ProjectID:	

Attn: **Ed McGuire**
J.C. Broderick & Associates
1775 Expressway Drive North
Hauppauge, NY 11788

Phone:	(631) 584-5492
Fax:	
Received:	04/18/17 6:55 PM
Analysis Date:	4/19/2017
Collected:	4/12/2017

Project: **16-35984 / Bethpage Admin & HS**

Test Site: **Bethpage Admin & HS**
10 Cherry Avenue
Bethpage, NY 11714

Test Report: Radon in Air Test Results

Samples for EMSL Kit 165546

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
283727	HS Rm 013D	0.1	4/12/2017	4/17/2017	72	60	Blank
381703842-0031			4:14:00 PM	7:53:00 AM			
Sample Notes:	Radon device exposed >96 hours						
283806	HS Rm 013D	1.7	4/12/2017	4/17/2017	72	60	Customer
381703842-0032			4:14:00 PM	7:53:00 AM			
Sample Notes:	Radon device exposed >96 hours						

Samples for EMSL Kit 165540

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
283812	HS Hall 0006	0.04	4/12/2017	4/17/2017	74	30	Blank
381703842-0033			4:17:00 PM	7:47:00 AM			
Sample Notes:	Radon device exposed >96 hours						
283930	HS Hall 0006	2.4	4/12/2017	4/17/2017	74	30	Customer
381703842-0034			4:17:00 PM	7:47:00 AM			
Sample Notes:	Radon device exposed >96 hours						

Samples for EMSL Kit 165541

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
283867	HS Hall 0010A	0.04	4/12/2017	4/17/2017	72	30	Blank
381703842-0035			4:19:00 PM	7:41:00 AM			
Sample Notes:	Radon device exposed >96 hours						
283926	HS Hall 0010A	1	4/12/2017	4/17/2017	72	30	Customer
381703842-0036			4:19:00 PM	7:41:00 AM			
Sample Notes:	Radon device exposed >96 hours						

The radon test was performed using a liquid scintillation radon detector/s and counted on a liquid scintillation counter using approved EPA testing protocols for Radon in Air testing. The EPA recommends fixing your home if the average of two short-term tests taken in the lowest lived-in level of the home show radon levels that are equal to or greater than 4.0pCi/L.
The EPA recommends retesting your home every two years.

Please contact EMSL Analytical, Inc. or your State Health Department for further information.
All procedures used for generating this report are in complete accordance with the current EPA protocols for the analysis of Radon in Air.

Report Note

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-0327
http://www.EMSL.com cinnaminsonradonlab@emsl.com

EMSL Order:	381703842
CustomerID:	JCBR50
CustomerPO:	16-35984
ProjectID:	

Attn: **Ed McGuire**
J.C. Broderick & Associates
1775 Expressway Drive North
Hauppauge, NY 11788

Phone:	(631) 584-5492
Fax:	
Received:	04/18/17 6:55 PM
Analysis Date:	4/19/2017
Collected:	4/12/2017

Project: **16-35984 / Bethpage Admin & HS**

Test Site: **Bethpage Admin & HS**
10 Cherry Avenue
Bethpage, NY 11714

Test Report: Radon in Air Test Results

Analyst(s)

Racquel Hafiz (36)

Laura Freeman, Radon Laboratory Manager &
Peixue Ma, Ph.D, NJ Radon Measurement Specialist NJ MES 13502

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ Accreditations: NRSB ARL6006, NJ DEP 03036, MEB 92525, PA 2573, IN 00455, IA L00032, RI RAS-024, ME 20200C, NE RMB-1083, NY ELAP 10872, NM 885-10L, FL RB2034, OH RL-39, NRPP #106178AL, KS-LB-0005, IL RNL2008202.

Initial report from 04/25/2017 16:12:27

Please visit www.radontestinglab.com

JC BR50
5 Day
M#2

EMSL
EMSL ANALYTICAL, INC.

CHAIN OF CUSTODY
RADON LABORATORY SERVICES
(COMMERCIAL USE)

EMSL Job #: 381703842

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: 800-220-3675
FAX: 856-786-0327

RECEIVED EMSL CINNAMINSON, NJ 17 APR 18 AM 6:55

Company Information

Company Name: JCBRODERICK & ASSOC. INC.
EMSL Account #:
Contact: ED MCGUIRE
Address: 1775 EXPRESSWAY DR. N
City: HAUPPAUGE
State: NY Zip Code: 11788
Phone: 631-584-5492
Fax: 631-584-3395
Email: EMCGUIRE@JCBRODERICK.COM

Project / Property Information:

Name: BETHPAGE ADMIN & HS
Address: 10 CHERRY AVENUE
City: BETHPAGE
Municipality: County: NASSAU
State: N.Y. Zip Code: 11714
PO#/Project#: 16-35984
☐ Please check box if this is a Post Mitigation Test
Technician Name: S MULLER
Technician Certification #:
Technician Signature: [signature]

Disclaimer

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages arising out of or in connection with EMSL's services there under or the delivery, use, reliance upon or interpretation of test results by client or third party. We accept no legal responsibility for the purposes for which the client uses the test results. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereafter.

Box Number	Device Number	Location	Exposure Period Beginning Date and Time	Exposure Period Ending Date and Time	Temperature, °F	Humidity, %
165563	283928 283834	Rm 002	4/12/17 3:44	4/17/17 8:05	72	30
165553	283758 283724	Rm 001	3:45	8:06	72	40
165552	283861 283801	Rm 004	3:47	8:07	72	30
165554	283848 283804	HALL 014	3:48	8:03	74	30
165562	283819 283802	Rm 006	3:49	8:02	72	40
165565	283770 283772	Rm 007	3:50	8:01	74	20
165556	283759 283822	Rm 008	3:50	8:04	74	30
165571	283723; ~~283667~~ 283447 ACH 4/25/17 ~~283667~~	Rm 013A/B	3:51	7:59	72	30
165569	283757 283876	HALL 013	3:52	7:58	72	30
165570	283771 283885	Rm 013D	3:54	7:59	70	40
165548	283767 283803	Rm 013E	3:55	8:00	74	30
165543	283827 283873	~~RS~~ Rm 013	4:08	7:58	70	* ~~80~~ 70%

Relinquished By:
Received By:

* CHANGE DUE TO CALIBRATION FACTOR ACH 4/25/17

* Racquel Hafi 4.18.17

OrderID: 381703842

EMSL ANALYTICAL, INC.

CHAIN OF CUSTODY
RADON LABORATORY SERVICES
(COMMERCIAL USE)

EMSL Job #: 381703842

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: 800-220-3675
FAX: 856-786-0327

Box Number	Device Number	Location	Exposure Period Beginning Date and Time	Exposure Period Ending Date and Time	Temperature, °F	Humidity, %
165542	283749 283845	HS Rm 013A	4/12/17 4:05	4/17/17 7:42	72	70
165544	283811 283823	HS Rm 013B	4/12/17 4:10	7:43	70	70
165545	283830 283915	HS Rm 013C	4:12	7:52	72	60
165546	283727 283806	HS Rm 013D	4:14	7:53	72	60
165540	283812 283930	HS Hall 0006	4:17	7:47	74	30
165541	283867 283926	HS Hall 0010A	4:19	7:41	72	30
* all samples in red processed as blanks → ACH 4/25/17						

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EMSL ANALYTICAL, INC.
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17 APR 17 AM 9:03

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EMSL
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17 APR 18 AM 6:56

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