

## SOIL GAS SURVEY



520 Albany Avenue  
Kingston, Ulster County, New York

**NYSDEC SPILL NO. 12-15279**

February 12, 2020

**DT CONSULTING SERVICES, INC.**

1291 Old Post Road  
Ulster Park, New York 12487  
(845) 658-3484 phone  
dtconsulting@hvc.rr.com

February 12, 2020

**Todd Fitzgerald**

Albany Wrentham, LLC  
CPO Box 1972  
Kingston, New York 12402-1972

**RE: SOIL GAS SURVEY  
NYSDEC SPILL NO. 12-15279  
520 Albany Avenue  
Kingston, Ulster County, New York**

Dear Mr. Fitzgerald:

DT Consulting Services, Inc. (DTCS) is pleased to present the attached Soil Gas Survey as generated for the above referenced Site. As required, a copy of this report will be forwarded to the New York State Department of Environmental Conservation (NYSDEC) for their review and comment. The necessity for further action is at the discretion of the NYSDEC. If you have any questions regarding the enclosed, please feel free to contact me at (845) 658-3484. DTCS thanks you for the opportunity to work with you on this project.

Sincerely,

**DT CONSULTING SERVICES, INC.**

*Deborah J. Thompson*

Deborah J. Thompson  
Senior Geologist / Project Manager

Cc: G. Bowitch, Esq.  
M. Kilmer/NYSDEC Region III

**DT CONSULTING SERVICES, INC.**

**SOIL GAS SURVEY**

**Pertaining to:**

520 Albany Avenue  
Kingston, Ulster County, New York

**NYSDEC SPILL NO. 12-15279**

**Prepared for:**

Todd Fitzgerald  
Albany Wrentham, LLC  
CPO Box 1972  
Kingston, New York 12402-1972

**Prepared by:**

Ms. Deborah J. Thompson  
Senior Geologist/Project Manager  
**DT CONSULTING SERVICES, INC.**  
1291 Old Post Road  
Ulster Park, New York 12487

**Date:** February 12, 2020

**TABLE OF CONTENTS**

**1.0 INTRODUCTION/SITE INFORMATION..... 1**  
**2.0 BACKGROUND ..... 2-5**  
**3.0 SOIL GAS SURVEY..... 5-7**  
    **3.1 ACTIVE SOIL GAS SAMPLING ..... 5-7**  
    **3.2 LABORATORY ANALYSIS..... 7**  
**4.0 FINDINGS ..... 8-9**  
    **4.1 SOIL GAS QUALITY ..... 8**  
    **4.2 GROUNDWATER FLOW..... 8-9**  
**5.0 CONCLUSTIONS/RECOMMENDATIONS..... 9**  
**6.0 LIMITATIONS..... 10**

**FIGURES**

**SITE LOCATION PLAN ..... 1**  
**SITE (BASE) MAP – SOIL GAS SAMPLING LOCATIONS..... 2**  
**CONTAMINANT DISTRIBUTION MAP FOR JULY 2019/OCTOBER-NOVEMBER 2019 ..... 3**  
**GROUNDWATER CONTOUR MAP FOR OCTOBER 17, 2019 ..... 4**

**TABLES**

**SUMMARY OF SOIL GAS VAPOR RESULTS ..... 1**

**ATTACHMENTS**

**ANALYTICAL PACKAGES ..... A**

**1.0 INTRODUCTION/ SITE INFORMATION**

DT Consulting Services, Inc. (DTCS) has been contracted by Albany Wrentham, LLC to perform a Soil Gas Survey including the sampling of ten soil gas vapor points on the property located at 520 Albany Avenue, Kingston, Ulster County, New York (hereinafter referenced as the Site or Subject Property). A Site location map and a Site (base) plan (Figures 1 and 2, respectively) are included for your reference.

The approximate 0.66-acre property was improved with a single-story masonry office/retail/garage building with approximately 4,592 square feet of space with paved parking areas. Historically, the Subject Property was utilized as a dry cleaning establishment from the late 1950s – 1980s. The Site was renovated in 2004, having been completely updated to be used as a used car service and sales outlet. Up until its closure (November 1, 2013), the property was utilized by Eastchester Auto for retail automobile sales and service. Between April and August 2014 the property was sold and Site improvements/additions conducted. The Site is now operating as Artcraft Camera & Digital and Fast Signs (Artcraft). Artcraft provides printing/photography services along with sign and graphic products.

The Site is bounded by Albany Avenue and Quick Check Gasoline/Convenience Store to the north-northwest, single family residences directly to the south, Wrentham Street and automobile repair/sales facilities to the east, while Tri-Star Auto Sales, Inc. - Auto Tech is present to the west. Town roadways adjoining the Site include Albany Avenue to the north-northwest and Wrentham Street to the east. Site topography is generally level and at grade with Albany Avenue. Potable water and wastewater disposal are provided by the local municipality.

## 2.0 BACKGROUND

On February 4, 2013, DTCS was on-Site to perform a subsurface investigation for Ms. Krista Scibelli (then property owner of the Subject Facility) prior to the sale of Site to Artcraft. While performing the field survey, soil contamination was encountered as displayed by stained soils, a petroleum film and positive field readings with a Photoionization Detector or PID. This material was documented along the southwest corner of the Site structure, directly down gradient of several 55-gallon drums utilized by the historical tenant, Eastchester Auto, to store waste oil. On account of the contamination encountered, DTCS notified the New York State Department of Environmental Conservation (hereinafter, NYSDEC or the Department) and Spill Number 12-15279 was generated for the Site. Upon review of field data, the Department requested remediation of the petroleum contaminated soils documented during the February 2013 survey. Subsequent remediation (April 22, 2013) of the source materials was performed to remedy the impacts to soil and groundwater quality. The removal and ultimate off-site disposal of 34.82 tons of contaminated soils and 1,241 gallons of captured groundwater remediated the petroleum impacts at the Site. The Department concurred, and officially closed the Spill Number 12-15279 on September 4, 2013.

While conducting further investigation on the subject parcel in June 2013 for Ms. Scibelli, it became apparent that historical dry cleaning operations had impacted the subsurface environment. To further delineate and quantify the compounds of concern, additional borings were advanced for the purpose of defining the chlorinated solvent plume within subsurface materials including soil, soil gas and groundwater beneath the Site. Based upon the results of this investigation and the need for remediation, DTCS proposed to and received approval from the Department for the installation of a Sub Slab Depressurization System or SSDS within the open garage space then located at the Subject Property (DTCS, SSDS Pilot Study and Design Report, December 17, 2013). Designed to create a

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negative pressure field directly beneath the Site structure, two extraction points were installed below the concrete floor slab on January 7 & 8, 2014. These extraction points were created by cutting through the concrete slab and excavating a six inch diameter hole, two feet deep. A two-inch diameter ten slot screen, eighteen inches long, connected to an appropriate length of solid riser pipe was then installed in the excavation. To provide the suction necessary to maintain the required vacuum under the floor slab, the two extraction points were interconnected to a single, sub-slab two-inch pipe traversing down the center of the garage. Vapor discharge piping was then attached to the suction side of a Rotron DR454M Regenerative Blower which was mounted to the outside of the building on the back wall. The exhaust stack for the sub-slab system was attached to the wall and extended to a height above the roof line of the building. Sampling ports and a fresh air bleed valve were also installed to facilitate the collection of air quality samples, routine monitoring of the system and to allow the introduction of diluted air into the system (as necessary). Note that all sub-slab excavations (extraction piping and discharge trench) were backfilled with ¼" washed stone and at completion, disturbed cement flooring was restored to create a tight seal. To finalize the SSDS installation, an alarm light was installed within the garage area of the Site structure for a quick visual determination as to whether the system is operating. DTCS initiated the Sub-Slab Depressurization Remedial System on January 23, 2014.

The SSDS efficiently and effectively mitigated the intrusion of potential vapors and remediating residual contaminants as shown by the fact that the PERC concentrations recorded in the effluent air had significantly decreased over the 2014 – 2017 operation period. As a result of the fact that the reported SSDS effluent air concentrations met the applicable regulatory standards as well as the lack of contaminant rebound during a three month shut-down or non-operation of the system, DTCS recommended spill closure to the NYSDEC which issued a no further action decision in March 2017.

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Beginning in November 2018, the NYSDEC notified Albany Wrentham, LLC that despite the prior spill closure, they were concerned about the significant levels of PCE contamination in the soil and groundwater reported during the 2013 investigation after the discovery of the 2013 petroleum spill. The NYSDEC was particularly concerned about elevated PCE concentrations in the southeast corner of the Site. As such, the Department recommended that either Albany Wrentham apply for entry into the Brownfield Cleanup Program (BCP) or that the Site would be handled under the State Superfund Program (SSF). Subsequently, after numerous correspondences with the Department and the performance of a Freedom of Information Law or FOIL review of the Site and surrounding properties by DTCS, and after a face to face meeting with Department legal and program staff, the DTCS received approval to conduct a Site Investigation to quantify current subsurface conditions at the Site. It was agreed that such investigation should take place prior to any decision regarding the future approach to the site under either the BCP or the SSF.

On June 27, 2019, DTCS provided the Department with proposed well and soil boring location map, which was approved by the Department that same day. Thereafter, DTCS mobilized to the Site with Core Down Drilling of Pawling, New York to perform the subsurface investigation on July 22-23, 2019. This was accomplished through continuous direct push coring within the advancing borehole, while proceeding with the installation of a groundwater monitoring well. The location of the permanent wells, denoted as monitoring wells MW-1 – MW-7, can be referenced in Figure 2 attached. While installing groundwater wells on-Site, visual impacts (i.e. olfactory and PID detectable VOCs) were not documented within any of the monitoring well locations. Although, low level, dissolved phase contaminant concentrations were encountered in select monitoring points, only a minor exceedance of standards for PCE was found in one of the seven wells (MW-5 at 97 ppb). No PCE was detected in monitoring wells MW-1 and MW-2 located in the southeast corner of the Site. These findings suggest that the remediation of the recognized environmental condition



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via source removal and operation of a SSDS have minimized impacts to groundwater quality. As the source has been removed (i.e., removal of source material and operation of the SSDS), natural attenuation should remediate the PCE found in MW-5 (see DTCS, Site Investigation Summary Report, September 17, 2019 for further details). Upon the review of the report, the NYSDEC requested that a soil gas study be performed along the property boundary lines along with groundwater monitoring to confirm groundwater flow path direction.

**3.0 SOIL GAS SURVEY**

The purpose of this Soil Gas Survey was to further provide data on subsurface conditions, specifically in the vadose zone which could assist in providing potential vapor migration and intrusion pathways across the survey area.

**3.1 Active Soil Gas Sampling**

On October 17, 2019, prior to initiating sampling activities, a DTCS field representative gauged each of the previously installed monitoring wells to record groundwater elevations. This data was utilized to ensure soil gas probes were installed near the capillary fringe and not too close to the water table because low flow conditions might be encountered due to high moisture content. On the day of Site work, the following groundwater monitoring data was collected:

<b>Monitoring Well ID</b>	<b>Depth to Water (ft.)</b>
<b>1</b>	8.09
<b>2</b>	9.16
<b>3</b>	9.02
<b>4</b>	9.13

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<b>5</b>	9.15
<b>6</b>	9.12
<b>7</b>	8.45

Employing a Geoprobe DT-54 track-mounted drill rig, soil gas vapor points were installed in ten monitoring locations utilizing the direct push method. Upon reaching the targeted sampling depth of approximately seven feet below grade surface (bgs), a polyethylene vapor implant. Each impact was attached to ¼-inch diameter polyethylene tubing which extended to grade surface for sampling. The vapor points were then backfilled with a sand pack to minimize disruption of airflow to the sampler. A minimum of six inches of dry granular bentonite was then placed on top of each sand pack then capped with annular sealing material (i.e., modeling clay) to provide a good annular seal. The well construction, as described above, was conducted at each monitoring location to prevent “short circuiting” of air from the upper portions of the borehole into the sample. To prevent cross-contamination, all installation equipment was decontaminated between each monitoring location. To collect representative samples from the subsurface each soil gas probe was subsequently purged to remove stagnant air from the sampling system. Following soil vapor probe construction, a MiniRAE photoionization detector or PID (which registers air flow below 0.2 liters per minute) was attached to the Teflon tubing and a minimum of three sample volumes were purged. The purged soil vapor was monitored for VOCs using a PID. As a quality assurance/quality control measure, an inert tracer gas (helium) test was completed before and after sampling to document that the soil vapor sampling points were properly sealed preventing subsurface infiltration of ambient air into the sample chain. After purging was complete, a laboratory-supplied 6-liter Summa® canister fitted with a flow controller (with a laboratory-preset flow rate of about 0.04 liters per minute) and vacuum gauge was attached to the polyethylene tubing to collect the sample.

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Note that due to equipment malfunction a soil gas sample could not be collected from monitoring point SG-8 during the October 17, 2019 field study. DTCS returned to the Site on November 15, 2019 and collected soil gas employing the techniques described above from a newly installed vapor point denoted by DTCS as SG-8A.

**3.2 Laboratory Analysis**

Upon collection, each soil vapor samples were transported by a laboratory-provided courier for VOC analysis via EPA Test Method TO-15. Samples submitted for laboratory testing were identified as follows:

**York Sample ID: 19J0852-01 – 19J0852-07 & 19J0852-09 – 19J0852-10**

- Sample ID 001 = SG-1**
- Sample ID 002 = SG-2**
- Sample ID 003 = SG-3**
- Sample ID 004 = SG-4**
- Sample ID 005 = SG-5**
- Sample ID 006 = SG-6**
- Sample ID 007 = SG-7**
- Sample ID 009 = SG-9**
- Sample ID 010 = SG-10**

**York Sample ID: 19K0712-01**

- Sample ID 001 = SG-8A**

A copy of the technical reports have been placed in Attachment A for reference.

## 4.0 FINDINGS

### 4.1 Soil Gas Quality

To provide quantitative data on current soil vapor conditions, a total of a ten sampling locations were chosen along the outer boundaries of the 520 Albany Avenue, Kingston, New York property with the approval of the NYSDEC.

Several VOCs, including cis-1,2-Dichloroethylene, PCE and TCE, were detected within on-Site soil vapor. Cis-1,2-Dichloroethylene was detected in SG-4 at a concentration of 18,000 micrograms per cubic meter [ $\mu\text{g}/\text{m}^3$ ]. PCE was reported within soil vapors collected at SG-4 - SG-7 and SG-9 at concentrations ranging from 2,000 – 170,000  $\mu\text{g}/\text{m}^3$ , while TCE was encountered at SG-4, SG-5 and SG-9 at concentrations of 110 – 7,900  $\mu\text{g}/\text{m}^3$ . Soil vapor sample results are summarized in Table 1 and shown on Figure 3.

### 4.2 Groundwater Flow

To further document groundwater path flow, depth to water beneath the Site was gauged with a sonic interface probe and recorded by DTCS during the October 2019 monitoring event. Groundwater elevations were calculated by subtracting depth to groundwater field measurements from surveyed top-of-well casing elevations in each monitoring well. Utilizing data collected during this reporting period, documented water table elevations were plotted on a scaled site map prepared by DTCS and is included as Figure 4 for your review. While generating said map, lines of equal elevation were drawn to contour the groundwater surface. Based on the assumption that groundwater flows perpendicular to lines of equal elevation in an isotropic, homogenous system, groundwater on-site generally flows in a north, northwesterly direction away from the Site. DTCS also documented an area of groundwater mounding within the northwestern quadrant of the Site (see Figure 4). The presence of adjacent storm drains, which are

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comprised of dry wells for storm water drainage, likely is the cause of this condition. DTCS compared the July and October Groundwater Contour Maps generated for the Site and both appear similar in nature.

### 5.0 CONCLUSIONS/RECOMMENDATIONS

With the conclusion of reviewing all available documentation as generated for the Subject Parcel, coupled with past completed field activities, including a bulk source removal, remedial action (installation and operation of a SSDS) and a recent groundwater and soil vapor investigation as described in this report, no further subsurface remedial work at the Site is warranted at this time. This opinion is supported by the following: 1) there are no potential impacts to residential properties located to the south of the Site because there is no identified source material at the Site, because the groundwater results in this area (MW-1 and MW-2) were non-detect and because the groundwater flow direction is *away* from these structures (See Figure 4); 2) the fact that there is both municipal water and sewer services at the Site and on surrounding properties, 3) the presence of a roadway (Albany Avenue) between the Site and the commercial property (formerly the Albany Avenue Garage, now improved and leased by Quick Check, located north, northwest of the Site ) which is also on municipal water and has an SSDS, which was installed as a result from historical uses at the former Albany Garage property; and 4) the only regulatory exceedances were found in soil gas locations outside of any structures at the Site and in one groundwater well (MW-5) located northwest of the Site, adjacent to Albany Avenue.

As a result of the combined Site work and owing to surrounding conditions described herein, DTCS recommends the restart of the on-Site SSDS with confirmatory sampling of the SSDS effluent as well as groundwater monitoring to be performed on a semi-annual basis for two years. If no significant increases in contaminant concentrations are reported; DTCS will request discontinuance of Site monitoring and spill closure on or before the agreed upon sampling period.

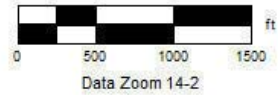
**6.0 LIMITATIONS**

DTCS has prepared this site assessment using reasonable efforts in each phase of its work to determine the extent of subsurface contamination (if any) within the locations of potential environmental concern. This report is not definitive, and should not be assumed to be a complete or specific definition of all conditions above or below grade. The conclusions/recommendations set forth herein are applicable only to the facts and conditions described at the time of this report.

**FIGURES**



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DT Consulting Services, Inc.  
 1291 Old Post Road  
 Ulster Park, New York 12487  
 (845) 658-3484

Client: Albany Wrentham, LLC

Location: 520 Albany Avenue, Kingston, New York

Title: Site Location Map

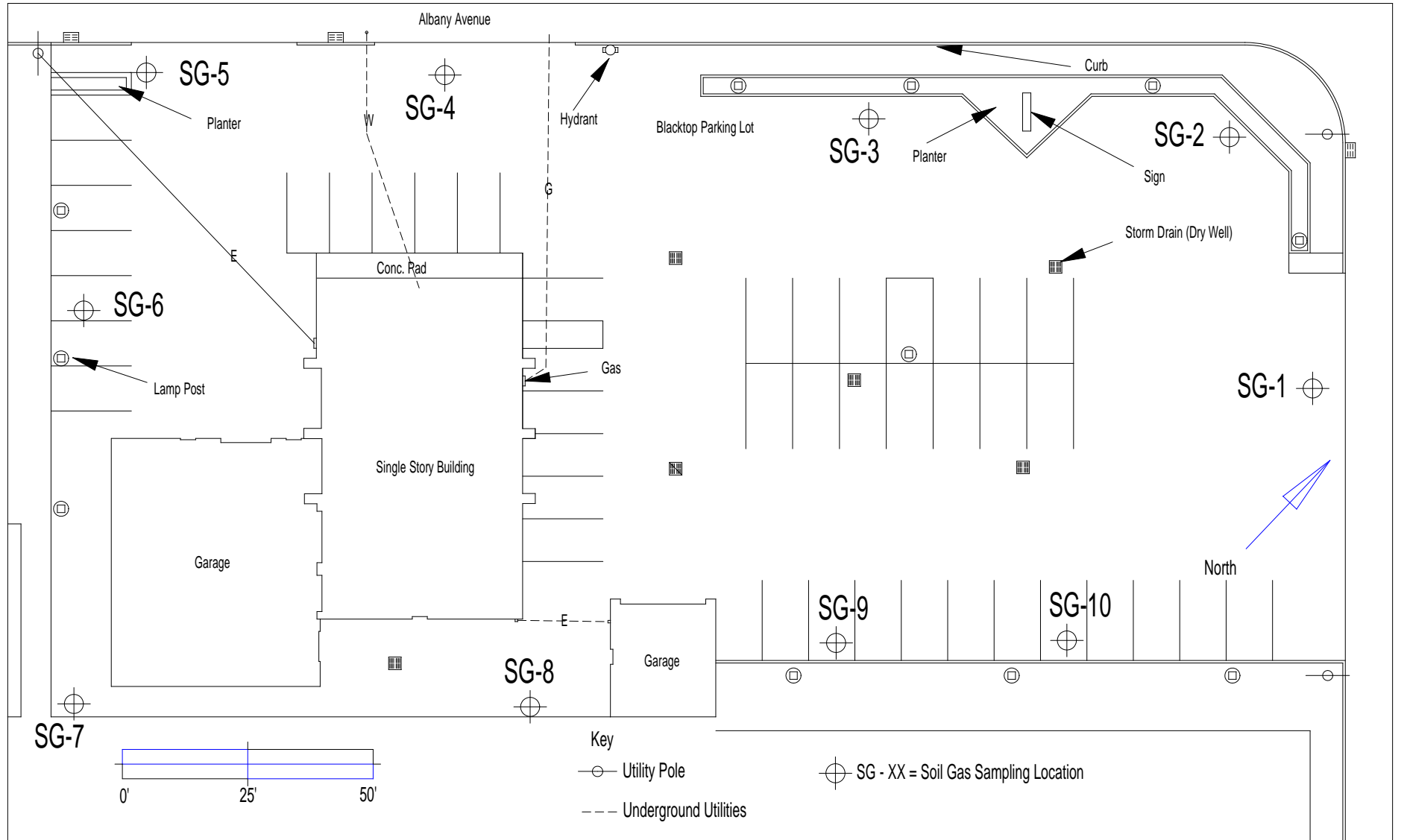
Spill No: 12-15279

Scale: Graphic

Drawn By: O.T.

Fig.#: 1





DT Consulting Services, Inc.  
 1291 Old Post Road  
 Ulster Park, New York 12487  
 (845) 658-3484

Client: Albany Wrentham, LLC

Location: 520 Albany Avenue, Kingston, New York

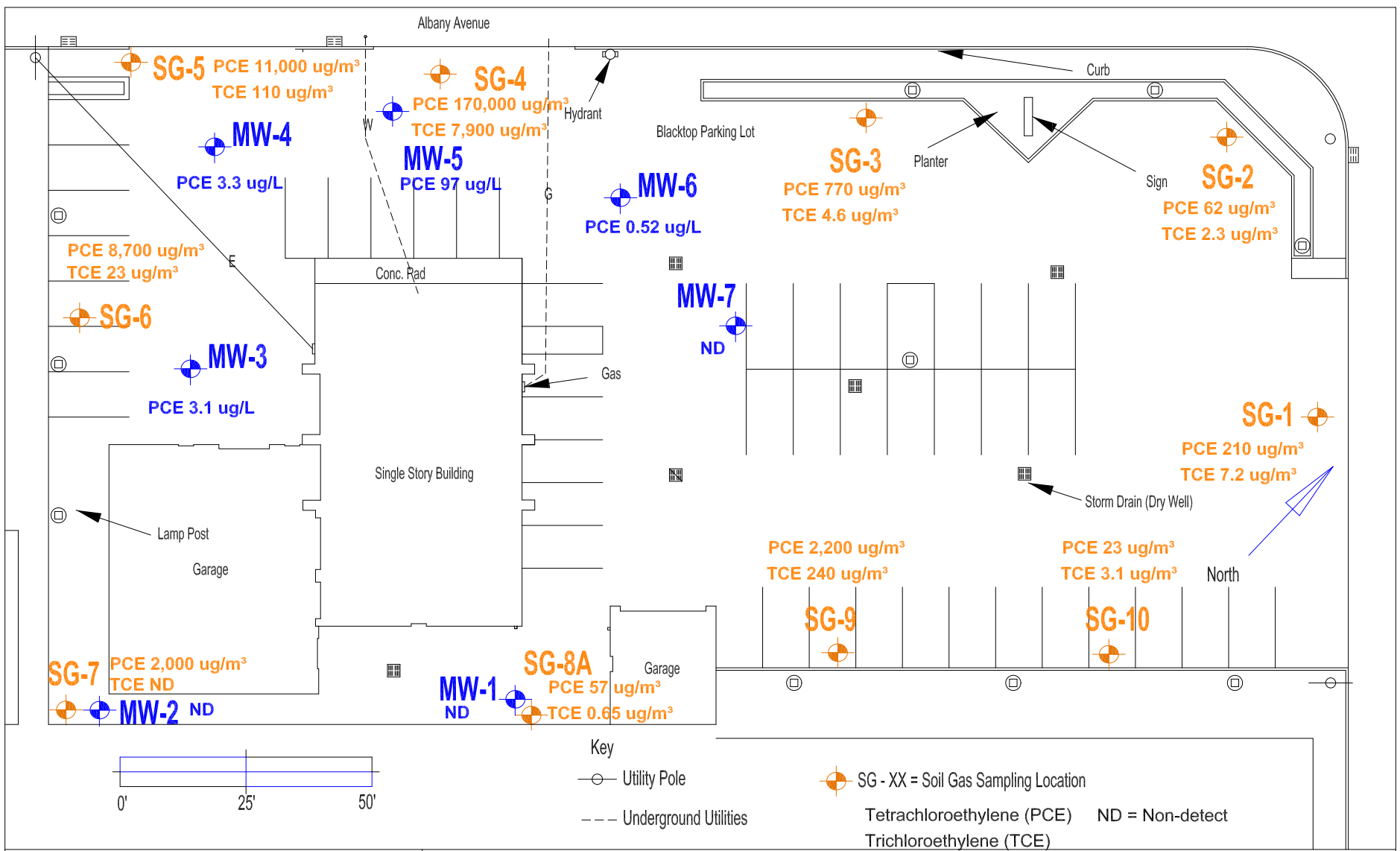
Title: Site (base) Map - Soil Gas Sampling Locations

Scale: Graphic

Drawn By: O.T.

Spill No: 12-15279

Fig.#: 2



DT Consulting Services, Inc.  
 1291 Old Post Road  
 Ulster Park, New York 12487  
 (845) 658-3484

Client: Albany Wrentham, LLC

Location: 520 Albany Avenue, Kingston, New York

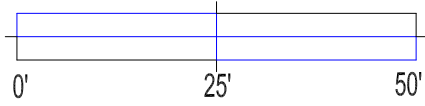
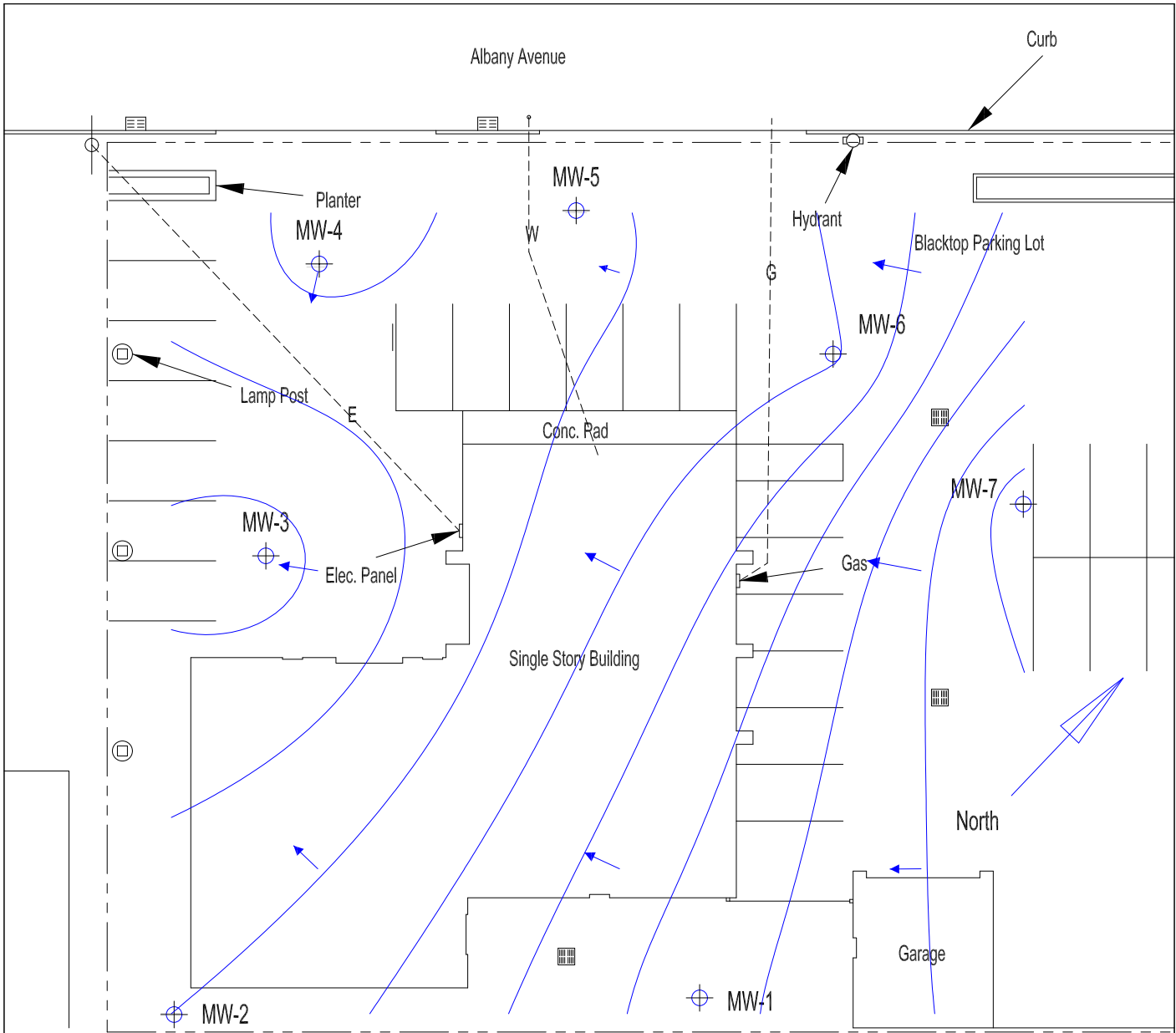
Title: Site (base) Map - Groundwater July 2019/Soil Gas October-November 2019 Sampling Results

Scale: Graphic

Drawn By: O.T.

Spill No: 12-15279

Fig.#: 3



- Key**
- Utility Pole
  - Property Line
  - Underground Utilities
  - ⊕ MW-XX Monitoring Well
  - Storm Drain

10/17/2019 Groundwater Elevation (ft.)	
MW-1	91.88
MW-2	91.35
MW-3	90.98
MW-4	91.39
MW-5	91.32
MW-6	91.48
MW-7	92.35

DT Consulting Services, Inc.  
 1291 Old Post Road  
 Ulster Park, New York 12487  
 (845) 658-3484

Client: Albany Wrentham, LLC

Location: 520 Albany Avenue, Kingston, New York

Title: Groundwater Contour Map - October 17, 2019

Spill No: 12-15279

Scale: Graphic

Drawn By: DT

Fig.#: 4

**TABLES**

**TABLE 1:**

**SUMMARY OF TO-15 VOLATILE DETECTIONS IN SOIL GAS SUMMARY**

**Address:** 520 Albany Avenue  
Kingston, Ulster County, New York

**Client Name:** Albany Wrentham, LLC  
**Address:** 520 Albany Avenue  
Kingston, New York 12402  
**Contact Name:** Todd Fitzgerald

**Contractor:** DT CONSULTING SERVICES, INC.  
**Laboratory:** York Analytical Laboratories, Inc.  
Stratford, CT 06615

Sample ID:		SG-1	SG-2	SG-3	SG-4	SG-5	SG-6	SG-7	SG-8A	SG-9	SG-10
Location:		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth (ft.):		8-ft. BGS	8-ft. BGS	8-ft. BGS	8-ft. BGS	8-ft. BGS	8-ft. BGS	8-ft. BGS	8-ft. BGS	8-ft. BGS	8-ft. BGS
Date:		10/17/2019	10/17/2019	10/17/2019	10/17/2019	10/17/2019	10/17/2019	10/17/2019	11/15/2019	10/17/2019	10/17/2019
Lab Sample ID:		19J0852-01	19J0852-02	19J0852-03	19J0852-04	19J0852-05	19J0852-06	19J0852-07	19K0712-01	19J0852-09	19J0852-10
Units:		µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
<b>Analysis:</b> EPA Method TO-15 Volatiles in Air											
1,1,1-Trichloroethane		5.8	9.2	1.4	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene		ND	ND	ND	270	ND	ND	ND	ND	41	ND
1,2,4-Trichlorobenzene		ND	ND	ND	ND	ND	ND	49.0	ND	ND	ND
1,2,4-Trimethylbenzene		27	30	28	30	32	27	15	32	26	26
1,2-Dichloroethane		ND	3.6	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene		8.8	8.8	9	8.9	10	8.9	7.7	4.3	24	7.7
1,3-Butadiene		6	29	5.1	9.8	ND	11	29	ND	22	2.6
2-Butanone		32	32	26	ND	11	13	18	2.6	24	9
2-Hexanone		ND	ND	ND	ND	ND	ND	ND	5.9	ND	ND
Acetone		100	100	93	46	57	53	82	16	110	39
Benzene		15	32	7.3	17	7.6	8.9	14	2.2	14	5
Bromodichloromethane		ND	ND	ND	ND	ND	ND	11	ND	ND	ND
Carbon disulfide		6.5	36	4.7	5.2	14	8.2	13	10	7.8	3.2
Carbon tetrachloride		ND	ND	ND	ND	ND	ND	ND	0.34	ND	ND
Chloroform		0.93	4.6	1.4	770	7.3	ND	ND	ND	ND	1.1
Chloromethane		0.57	ND	0.38	ND	ND	ND	ND	1.4	ND	ND
cis-1,2-Dichloroethylene		ND	ND	ND	18,000	25	2	1.4	0.75	7,700	4.1
Cyclohexane		29	35	28	46	27	21	24	2.1	25	16
Dichlorodifluoromethane		1.6	ND	1.8	ND	ND	ND	1300	2.1	ND	ND
Ethyl acetate		ND	ND	ND	ND	ND	ND	ND	5.4	ND	ND
Ethyl Benzene		20	21	22	20	21	21	19	3.3	39	ND
Isopropanol		3.4	ND	2.6	ND	ND	ND	ND	3.9	ND	ND
Methylene chloride		7.6	7.2	ND	ND	ND	41	19	ND	ND	63
n-Heptane		11	8.3	8.6	ND	ND	ND	ND	1.6	ND	6.3
n-Hexane		11	30	8.4	10	6.8	9.8	18	1.4	16	7.1
o-Xylene		22	25	24	24	24	24	21	7.1	200	20
p-&m- Xylenes		53	64	57	63	65	63	56	14	180.0	47
p-Ethyltoluene		28	31	30	28	30	27	26	12	53	25
Propylene		49	320	39	22	33	86	400	ND	200	15
Styrene		1.8	ND	1.9	ND	ND	ND	ND	ND	7.8	1.5
Tetrachloroethylene		210	62	770	170,000	11,000	8,700	2,000	57	2,200	23
Tetrahydrofuran		ND	ND	ND	ND	ND	ND	ND	3.9	ND	ND
Toluene		65	76	61	47	48	51	63	5.6	60	50
trans-1,2-Dichloroethylene		ND	ND	ND	160	ND	ND	ND	ND	31	ND
Trichloroethylene		2.3	7.2	4.6	7,900	110	23	ND	0.65	240	3.1
Trichlorofluoromethane		3	ND	2.1	ND	ND	ND	ND	1.4	ND	2.6
Vinyl acetate		ND	ND	ND	ND	ND	ND	ND	0.86	ND	ND
Vinyl Chloride		ND	ND	ND	3.1	ND	ND	ND	ND	3.8	ND

**Notes:**

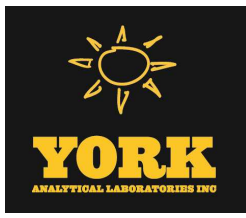
1. There is no current regulatory standard for general soil vapor.
2. ND = Non-detect
3. NS = No Matrix Standard has been established for this compound.
4. Due to a Summa Canister malfunction, soil vapor point denoted as SG-8 was reinstalled on November 15, 2019 and listed as SG-8A for vapor collection and analysis.
5. Only compounds with detections are shown on this table.

**DT CONSULTING SERVICES, INC.**

**ATTACHMENTS**

**DT CONSULTING SERVICES, INC.**

**ATTACHMENT A**



# Technical Report

prepared for:

**DT Consulting Services**  
1291 Old Post Road  
Ulster Park NY, 12487  
**Attention: Deborah Thompson**

Report Date: 10/25/2019  
**Client Project ID: 520 Albany Avenue Kingston, New York**  
York Project (SDG) No.: 19J0852

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE  
www.YORKLAB.com

STRATFORD, CT 06615  
(203) 325-1371

132-02 89th AVENUE  
FAX (203) 357-0166

RICHMOND HILL, NY 11418  
ClientServices@yorklab.com



Report Date: 10/25/2019  
Client Project ID: 520 Albany Avenue Kingston, New York  
York Project (SDG) No.: 19J0852

**DT Consulting Services**  
1291 Old Post Road  
Ulster Park NY, 12487  
Attention: Deborah Thompson

---

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 18, 2019 with a temperature of C. The project was identified as your project: **520 Albany Avenue Kingston, New York.**

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

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

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

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

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

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
19J0852-01	SG-1	Soil Vapor	10/17/2019	10/18/2019
19J0852-02	SG-2	Soil Vapor	10/17/2019	10/18/2019
19J0852-03	SG-3	Soil Vapor	10/17/2019	10/18/2019
19J0852-04	SG-4	Soil Vapor	10/17/2019	10/18/2019
19J0852-05	SG-5	Soil Vapor	10/17/2019	10/18/2019
19J0852-06	SG-6	Soil Vapor	10/17/2019	10/18/2019
19J0852-07	SG-7	Soil Vapor	10/17/2019	10/18/2019
19J0852-09	SG-9	Soil Vapor	10/17/2019	10/18/2019
19J0852-10	SG-10	Soil Vapor	10/17/2019	10/18/2019

## **General Notes for York Project (SDG) No.: 19J0852**

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

**Approved By:**



**Benjamin Gulizia**  
Laboratory Director

**Date:** 10/25/2019





## Sample Information

**Client Sample ID:** SG-1

**York Sample ID:** 19J0852-01

<u>York Project (SDG) No.</u> 19J0852	<u>Client Project ID</u> 520 Albany Avenue Kingston, New York	<u>Matrix</u> Soil Vapor	<u>Collection Date/Time</u> October 17, 2019 9:22 am	<u>Date Received</u> 10/18/2019
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**Volatile Organics, EPA TO15 Full List**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	1.0	1.46	EPA TO-15 Certifications:	10/22/2019 09:00	10/23/2019 01:50	AS
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>5.8</b>		ug/m <sup>3</sup>	0.80	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	1.0	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	1.1	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	0.80	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	0.59	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	0.14	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	1.1	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>27</b>		ug/m <sup>3</sup>	0.72	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	1.1	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.88	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	0.59	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	0.67	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	1.0	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>8.8</b>		ug/m <sup>3</sup>	0.72	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
106-99-0	<b>1,3-Butadiene</b>	<b>6.0</b>		ug/m <sup>3</sup>	0.97	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.88	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	0.67	1.46	EPA TO-15 Certifications:	10/22/2019 09:00	10/23/2019 01:50	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.88	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	1.1	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
78-93-3	<b>2-Butanone</b>	<b>32</b>		ug/m <sup>3</sup>	0.43	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS



### Sample Information

**Client Sample ID:** SG-1

**York Sample ID:** 19J0852-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 9:22 am

10/18/2019

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	1.2	1.46	EPA TO-15 Certifications:	10/22/2019 09:00	10/23/2019 01:50	AS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	2.3	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	0.60	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
67-64-1	<b>Acetone</b>	<b>100</b>		ug/m <sup>3</sup>	0.69	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	0.32	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
71-43-2	<b>Benzene</b>	<b>15</b>		ug/m <sup>3</sup>	0.47	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	0.76	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	0.98	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	1.5	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.57	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
75-15-0	<b>Carbon disulfide</b>	<b>6.5</b>		ug/m <sup>3</sup>	0.45	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	0.23	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	0.67	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.39	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
67-66-3	<b>Chloroform</b>	<b>0.93</b>		ug/m <sup>3</sup>	0.71	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
74-87-3	<b>Chloromethane</b>	<b>0.57</b>		ug/m <sup>3</sup>	0.30	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.14	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.66	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
110-82-7	<b>Cyclohexane</b>	<b>29</b>		ug/m <sup>3</sup>	0.50	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	1.2	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
75-71-8	<b>Dichlorodifluoromethane</b>	<b>1.6</b>		ug/m <sup>3</sup>	0.72	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	1.1	1.46	EPA TO-15 Certifications:	10/22/2019 09:00	10/23/2019 01:50	AS



### Sample Information

**Client Sample ID:** SG-1

**York Sample ID:** 19J0852-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 9:22 am

10/18/2019

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	20		ug/m <sup>3</sup>	0.63	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	1.6	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
67-63-0	Isopropanol	3.4		ug/m <sup>3</sup>	0.72	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	0.60	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	0.53	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
75-09-2	Methylene chloride	7.6		ug/m <sup>3</sup>	1.0	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
142-82-5	n-Heptane	11		ug/m <sup>3</sup>	0.60	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
110-54-3	n-Hexane	11		ug/m <sup>3</sup>	0.51	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
95-47-6	o-Xylene	22		ug/m <sup>3</sup>	0.63	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
179601-23-1	p- & m- Xylenes	53		ug/m <sup>3</sup>	1.3	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
622-96-8	* p-Ethyltoluene	28		ug/m <sup>3</sup>	0.72	1.46	EPA TO-15 Certifications:	10/22/2019 09:00	10/23/2019 01:50	AS
115-07-1	* Propylene	49		ug/m <sup>3</sup>	0.25	1.46	EPA TO-15 Certifications:	10/22/2019 09:00	10/23/2019 01:50	AS
100-42-5	Styrene	1.8		ug/m <sup>3</sup>	0.62	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
127-18-4	Tetrachloroethylene	210		ug/m <sup>3</sup>	0.25	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	0.86	1.46	EPA TO-15 Certifications:	10/22/2019 09:00	10/23/2019 01:50	AS
108-88-3	Toluene	65		ug/m <sup>3</sup>	0.55	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.58	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.66	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
79-01-6	Trichloroethylene	2.3		ug/m <sup>3</sup>	0.20	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
75-69-4	Trichlorofluoromethane (Freon 11)	3.0		ug/m <sup>3</sup>	0.82	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	0.51	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	0.64	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS



### Sample Information

**Client Sample ID:** SG-1

**York Sample ID:** 19J0852-01

**York Project (SDG) No.** 19J0852      **Client Project ID** 520 Albany Avenue Kingston, New York      **Matrix** Soil Vapor      **Collection Date/Time** October 17, 2019 9:22 am      **Date Received** 10/18/2019

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	0.093	1.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 01:50	AS
<b>Surrogate Recoveries</b>		<b>Result</b>		<b>Acceptance Range</b>						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	94.9 %		70-130						

### Sample Information

**Client Sample ID:** SG-2

**York Sample ID:** 19J0852-02

**York Project (SDG) No.** 19J0852      **Client Project ID** 520 Albany Avenue Kingston, New York      **Matrix** Soil Vapor      **Collection Date/Time** October 17, 2019 9:24 am      **Date Received** 10/18/2019

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes: TO-VAC**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	3.8	5.592	EPA TO-15 Certifications:	10/22/2019 09:00	10/23/2019 03:36	AS
71-55-6	1,1,1-Trichloroethane	9.2		ug/m <sup>3</sup>	3.1	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	3.8	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	4.3	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	3.1	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	2.3	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	0.55	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	4.1	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
95-63-6	1,2,4-Trimethylbenzene	30		ug/m <sup>3</sup>	2.7	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	4.3	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	3.4	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
107-06-2	1,2-Dichloroethane	3.6		ug/m <sup>3</sup>	2.3	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	2.6	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS



### Sample Information

**Client Sample ID:** SG-2

**York Sample ID:** 19J0852-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 9:24 am

10/18/2019

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes: TO-VAC**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	3.9	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
108-67-8	1,3,5-Trimethylbenzene	8.8		ug/m <sup>3</sup>	2.7	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
106-99-0	1,3-Butadiene	29		ug/m <sup>3</sup>	3.7	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	3.4	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	2.6	5.592	EPA TO-15 Certifications:	10/22/2019 09:00	10/23/2019 03:36	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	3.4	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	4.0	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
78-93-3	2-Butanone	32		ug/m <sup>3</sup>	1.6	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	4.6	5.592	EPA TO-15 Certifications:	10/22/2019 09:00	10/23/2019 03:36	AS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	8.8	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	2.3	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
67-64-1	Acetone	100		ug/m <sup>3</sup>	2.7	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	1.2	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
71-43-2	Benzene	32		ug/m <sup>3</sup>	1.8	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	2.9	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	3.7	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	5.8	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	2.2	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
75-15-0	Carbon disulfide	36		ug/m <sup>3</sup>	1.7	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	0.88	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	2.6	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	1.5	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS



### Sample Information

**Client Sample ID:** SG-2

**York Sample ID:** 19J0852-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 9:24 am

10/18/2019

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes: TO-VAC**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	<b>Chloroform</b>	<b>4.6</b>		ug/m <sup>3</sup>	2.7	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	1.2	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.55	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	2.5	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
110-82-7	<b>Cyclohexane</b>	<b>35</b>		ug/m <sup>3</sup>	1.9	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	4.8	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
75-71-8	Dichlorodifluoromethane	ND		ug/m <sup>3</sup>	2.8	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	4.0	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
100-41-4	<b>Ethyl Benzene</b>	<b>21</b>		ug/m <sup>3</sup>	2.4	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	6.0	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	2.7	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	2.3	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	2.0	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
75-09-2	<b>Methylene chloride</b>	<b>7.2</b>		ug/m <sup>3</sup>	3.9	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
142-82-5	<b>n-Heptane</b>	<b>8.3</b>		ug/m <sup>3</sup>	2.3	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
110-54-3	<b>n-Hexane</b>	<b>30</b>		ug/m <sup>3</sup>	2.0	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
95-47-6	<b>o-Xylene</b>	<b>25</b>		ug/m <sup>3</sup>	2.4	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>64</b>		ug/m <sup>3</sup>	4.9	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
622-96-8	* <b>p-Ethyltoluene</b>	<b>31</b>		ug/m <sup>3</sup>	2.7	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
115-07-1	* <b>Propylene</b>	<b>320</b>		ug/m <sup>3</sup>	0.96	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	2.4	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
127-18-4	<b>Tetrachloroethylene</b>	<b>62</b>		ug/m <sup>3</sup>	0.95	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS





### Sample Information

**Client Sample ID:** SG-2

**York Sample ID:** 19J0852-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 9:24 am

10/18/2019

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes: TO-VAC**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	3.3	5.592	EPA TO-15 Certifications:	10/22/2019 09:00	10/23/2019 03:36	AS
108-88-3	<b>Toluene</b>	<b>76</b>		ug/m <sup>3</sup>	2.1	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	2.2	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	2.5	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
79-01-6	<b>Trichloroethylene</b>	<b>7.2</b>		ug/m <sup>3</sup>	0.75	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	3.1	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	2.0	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	2.4	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	0.36	5.592	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 03:36	AS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
460-00-4	Surrogate: <i>SURR:</i> <i>p-Bromofluorobenzene</i>	90.6 %	70-130							

### Sample Information

**Client Sample ID:** SG-3

**York Sample ID:** 19J0852-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 9:27 am

10/18/2019

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	1.0	1.517	EPA TO-15 Certifications:	10/22/2019 09:00	10/23/2019 04:32	AS
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>1.4</b>		ug/m <sup>3</sup>	0.83	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	1.0	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	1.2	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	0.83	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS



### Sample Information

**Client Sample ID:** SG-3

**York Sample ID:** 19J0852-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 9:27 am

10/18/2019

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	0.61	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	0.15	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	1.1	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>28</b>		ug/m <sup>3</sup>	0.75	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	1.2	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.91	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	0.61	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	0.70	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	1.1	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>9.0</b>		ug/m <sup>3</sup>	0.75	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
106-99-0	<b>1,3-Butadiene</b>	<b>5.1</b>		ug/m <sup>3</sup>	1.0	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.91	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	0.70	1.517	EPA TO-15 Certifications:	10/22/2019 09:00	10/23/2019 04:32	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.91	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	1.1	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
78-93-3	<b>2-Butanone</b>	<b>26</b>		ug/m <sup>3</sup>	0.45	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	1.2	1.517	EPA TO-15 Certifications:	10/22/2019 09:00	10/23/2019 04:32	AS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	2.4	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	0.62	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
67-64-1	<b>Acetone</b>	<b>93</b>		ug/m <sup>3</sup>	0.72	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	0.33	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
71-43-2	<b>Benzene</b>	<b>7.3</b>		ug/m <sup>3</sup>	0.48	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS



### Sample Information

**Client Sample ID:** SG-3

**York Sample ID:** 19J0852-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 9:27 am

10/18/2019

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	0.79	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	1.0	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	1.6	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.59	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
75-15-0	<b>Carbon disulfide</b>	<b>4.7</b>		ug/m <sup>3</sup>	0.47	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	0.24	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	0.70	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.40	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
67-66-3	<b>Chloroform</b>	<b>1.4</b>		ug/m <sup>3</sup>	0.74	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
74-87-3	<b>Chloromethane</b>	<b>0.38</b>		ug/m <sup>3</sup>	0.31	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>0.48</b>		ug/m <sup>3</sup>	0.15	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.69	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
110-82-7	<b>Cyclohexane</b>	<b>28</b>		ug/m <sup>3</sup>	0.52	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	1.3	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
75-71-8	<b>Dichlorodifluoromethane</b>	<b>1.8</b>		ug/m <sup>3</sup>	0.75	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	1.1	1.517	EPA TO-15 Certifications:	10/22/2019 09:00	10/23/2019 04:32	AS
100-41-4	<b>Ethyl Benzene</b>	<b>22</b>		ug/m <sup>3</sup>	0.66	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	1.6	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
67-63-0	<b>Isopropanol</b>	<b>2.6</b>		ug/m <sup>3</sup>	0.75	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	0.62	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	0.55	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	1.1	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS



### Sample Information

**Client Sample ID:** SG-3

**York Sample ID:** 19J0852-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 9:27 am

10/18/2019

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
142-82-5	<b>n-Heptane</b>	<b>8.6</b>		ug/m <sup>3</sup>	0.62	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
110-54-3	<b>n-Hexane</b>	<b>8.4</b>		ug/m <sup>3</sup>	0.53	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
95-47-6	<b>o-Xylene</b>	<b>24</b>		ug/m <sup>3</sup>	0.66	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>57</b>		ug/m <sup>3</sup>	1.3	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
622-96-8	<b>* p-Ethyltoluene</b>	<b>30</b>		ug/m <sup>3</sup>	0.75	1.517	EPA TO-15 Certifications:	10/22/2019 09:00	10/23/2019 04:32	AS
115-07-1	<b>* Propylene</b>	<b>39</b>		ug/m <sup>3</sup>	0.26	1.517	EPA TO-15 Certifications:	10/22/2019 09:00	10/23/2019 04:32	AS
100-42-5	<b>Styrene</b>	<b>1.9</b>		ug/m <sup>3</sup>	0.65	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
127-18-4	<b>Tetrachloroethylene</b>	<b>770</b>		ug/m <sup>3</sup>	2.6	15.17	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 18:56	AS
109-99-9	<b>* Tetrahydrofuran</b>	ND		ug/m <sup>3</sup>	0.89	1.517	EPA TO-15 Certifications:	10/22/2019 09:00	10/23/2019 04:32	AS
108-88-3	<b>Toluene</b>	<b>61</b>		ug/m <sup>3</sup>	0.57	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.60	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.69	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
79-01-6	<b>Trichloroethylene</b>	<b>4.6</b>		ug/m <sup>3</sup>	0.20	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
75-69-4	<b>Trichlorofluoromethane (Freon 11)</b>	<b>2.1</b>		ug/m <sup>3</sup>	0.85	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	0.53	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	0.66	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	0.097	1.517	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 04:32	AS
	<b>Surrogate Recoveries</b>	<b>Result</b>					<b>Acceptance Range</b>			
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	95.8 %					70-130			



### Sample Information

**Client Sample ID:** SG-4

**York Sample ID:** 19J0852-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 9:34 am

10/18/2019

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	10	15.13	EPA TO-15 Certifications:	10/22/2019 09:00	10/22/2019 19:47	AS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	8.3	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	10	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	12	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	8.3	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	6.1	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
75-35-4	<b>1,1-Dichloroethylene</b>	<b>270</b>		ug/m <sup>3</sup>	1.5	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	11	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>30</b>		ug/m <sup>3</sup>	7.4	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	12	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	9.1	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	6.1	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	7.0	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	11	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>8.9</b>		ug/m <sup>3</sup>	7.4	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	10	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	9.1	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	7.0	15.13	EPA TO-15 Certifications:	10/22/2019 09:00	10/22/2019 19:47	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	9.1	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	11	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
78-93-3	<b>2-Butanone</b>	<b>9.8</b>		ug/m <sup>3</sup>	4.5	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	12	15.13	EPA TO-15 Certifications:	10/22/2019 09:00	10/22/2019 19:47	AS



### Sample Information

**Client Sample ID:** SG-4

**York Sample ID:** 19J0852-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 9:34 am

10/18/2019

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	24	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	6.2	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
67-64-1	<b>Acetone</b>	<b>46</b>		ug/m <sup>3</sup>	7.2	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	3.3	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
71-43-2	<b>Benzene</b>	<b>17</b>		ug/m <sup>3</sup>	4.8	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	7.8	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	10	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	16	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	5.9	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
75-15-0	<b>Carbon disulfide</b>	<b>5.2</b>		ug/m <sup>3</sup>	4.7	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	2.4	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	7.0	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	4.0	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
67-66-3	<b>Chloroform</b>	<b>770</b>		ug/m <sup>3</sup>	7.4	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	3.1	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>18000</b>		ug/m <sup>3</sup>	12	121.04	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 11:26	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	6.9	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
110-82-7	<b>Cyclohexane</b>	<b>46</b>		ug/m <sup>3</sup>	5.2	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	13	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
75-71-8	Dichlorodifluoromethane	ND		ug/m <sup>3</sup>	7.5	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	11	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
100-41-4	<b>Ethyl Benzene</b>	<b>20</b>		ug/m <sup>3</sup>	6.6	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS



### Sample Information

**Client Sample ID:** SG-4

**York Sample ID:** 19J0852-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 9:34 am

10/18/2019

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	16	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	7.4	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	6.2	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	5.5	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	11	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	6.2	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
110-54-3	<b>n-Hexane</b>	<b>10</b>		ug/m <sup>3</sup>	5.3	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
95-47-6	<b>o-Xylene</b>	<b>24</b>		ug/m <sup>3</sup>	6.6	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>63</b>		ug/m <sup>3</sup>	13	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
622-96-8	<b>* p-Ethyltoluene</b>	<b>28</b>		ug/m <sup>3</sup>	7.4	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
115-07-1	<b>* Propylene</b>	<b>22</b>		ug/m <sup>3</sup>	2.6	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	6.4	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
127-18-4	<b>Tetrachloroethylene</b>	<b>170000</b>		ug/m <sup>3</sup>	92	542.1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/23/2019 09:00	10/23/2019 22:50	AS
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	8.9	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
108-88-3	<b>Toluene</b>	<b>47</b>		ug/m <sup>3</sup>	5.7	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
156-60-5	<b>trans-1,2-Dichloroethylene</b>	<b>160</b>		ug/m <sup>3</sup>	6.0	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	6.9	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
79-01-6	<b>Trichloroethylene</b>	<b>7900</b>		ug/m <sup>3</sup>	10	75.65	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 06:17	AS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	8.5	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	5.3	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	6.6	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS
75-01-4	<b>Vinyl Chloride</b>	<b>3.1</b>		ug/m <sup>3</sup>	0.97	15.13	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 19:47	AS



### Sample Information

**Client Sample ID:** SG-4

**York Sample ID:** 19J0852-04

<u>York Project (SDG) No.</u> 19J0852	<u>Client Project ID</u> 520 Albany Avenue Kingston, New York	<u>Matrix</u> Soil Vapor	<u>Collection Date/Time</u> October 17, 2019 9:34 am	<u>Date Received</u> 10/18/2019
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**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	96.1 %								

### Sample Information

**Client Sample ID:** SG-5

**York Sample ID:** 19J0852-05

<u>York Project (SDG) No.</u> 19J0852	<u>Client Project ID</u> 520 Albany Avenue Kingston, New York	<u>Matrix</u> Soil Vapor	<u>Collection Date/Time</u> October 17, 2019 9:38 am	<u>Date Received</u> 10/18/2019
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**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	10	14.89	EPA TO-15 Certifications:	10/22/2019 09:00	10/22/2019 20:38	AS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	8.1	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	10	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	11	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	8.1	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	6.0	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	1.5	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	11	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>32</b>		ug/m <sup>3</sup>	7.3	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	11	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	9.0	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	6.0	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	6.9	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS





### Sample Information

**Client Sample ID:** SG-5

**York Sample ID:** 19J0852-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 9:38 am

10/18/2019

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	10	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>10</b>		ug/m <sup>3</sup>	7.3	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	9.9	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	9.0	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	6.9	14.89	EPA TO-15 Certifications:	10/22/2019 09:00	10/22/2019 20:38	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	9.0	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	11	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
78-93-3	<b>2-Butanone</b>	<b>11</b>		ug/m <sup>3</sup>	4.4	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	12	14.89	EPA TO-15 Certifications:	10/22/2019 09:00	10/22/2019 20:38	AS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	23	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	6.1	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
67-64-1	<b>Acetone</b>	<b>57</b>		ug/m <sup>3</sup>	7.1	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	3.2	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
71-43-2	<b>Benzene</b>	<b>7.6</b>		ug/m <sup>3</sup>	4.8	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	7.7	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	10	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	15	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	5.8	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
75-15-0	<b>Carbon disulfide</b>	<b>14</b>		ug/m <sup>3</sup>	4.6	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	2.3	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	6.9	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	3.9	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS



### Sample Information

**Client Sample ID:** SG-5

**York Sample ID:** 19J0852-05

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 9:38 am

10/18/2019

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	<b>Chloroform</b>	<b>7.3</b>		ug/m <sup>3</sup>	7.3	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	3.1	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>25</b>		ug/m <sup>3</sup>	1.5	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	6.8	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
110-82-7	<b>Cyclohexane</b>	<b>27</b>		ug/m <sup>3</sup>	5.1	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	13	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
75-71-8	Dichlorodifluoromethane	ND		ug/m <sup>3</sup>	7.4	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	11	14.89	EPA TO-15 Certifications:	10/22/2019 09:00	10/22/2019 20:38	AS
100-41-4	<b>Ethyl Benzene</b>	<b>21</b>		ug/m <sup>3</sup>	6.5	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	16	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	7.3	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	6.1	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	5.4	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	10	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	6.1	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
110-54-3	<b>n-Hexane</b>	<b>6.8</b>		ug/m <sup>3</sup>	5.2	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
95-47-6	<b>o-Xylene</b>	<b>24</b>		ug/m <sup>3</sup>	6.5	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>65</b>		ug/m <sup>3</sup>	13	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
622-96-8	* <b>p-Ethyltoluene</b>	<b>30</b>		ug/m <sup>3</sup>	7.3	14.89	EPA TO-15 Certifications:	10/22/2019 09:00	10/22/2019 20:38	AS
115-07-1	* <b>Propylene</b>	<b>33</b>		ug/m <sup>3</sup>	2.6	14.89	EPA TO-15 Certifications:	10/22/2019 09:00	10/22/2019 20:38	AS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	6.3	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 20:38	AS
127-18-4	<b>Tetrachloroethylene</b>	<b>11000</b>		ug/m <sup>3</sup>	13	74.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 07:08	AS



Sample Information

Client Sample ID: SG-5

York Sample ID: 19J0852-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 9:38 am

10/18/2019

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for Tetrahydrofuran, Toluene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropylene, Trichloroethylene, Trichlorofluoromethane (Freon 11), Vinyl acetate, Vinyl bromide, Vinyl Chloride, and Surrogate Recoveries.

Sample Information

Client Sample ID: SG-6

York Sample ID: 19J0852-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 9:46 am

10/18/2019

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, and 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113).



### Sample Information

**Client Sample ID:** SG-6

**York Sample ID:** 19J0852-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 9:46 am

10/18/2019

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	9.0	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	6.6	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	1.6	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	12	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>27</b>		ug/m <sup>3</sup>	8.1	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	13	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	9.9	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	6.6	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	7.6	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	11	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>8.9</b>		ug/m <sup>3</sup>	8.1	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
106-99-0	<b>1,3-Butadiene</b>	<b>11</b>		ug/m <sup>3</sup>	11	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	9.9	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	7.6	16.42	EPA TO-15 Certifications:	10/22/2019 09:00	10/22/2019 21:28	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	9.9	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	12	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
78-93-3	<b>2-Butanone</b>	<b>13</b>		ug/m <sup>3</sup>	4.8	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	13	16.42	EPA TO-15 Certifications:	10/22/2019 09:00	10/22/2019 21:28	AS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	26	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	6.7	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
67-64-1	<b>Acetone</b>	<b>53</b>		ug/m <sup>3</sup>	7.8	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	3.6	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS



## Sample Information

**Client Sample ID:** SG-6

**York Sample ID:** 19J0852-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 9:46 am

10/18/2019

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	<b>Benzene</b>	<b>8.9</b>		ug/m <sup>3</sup>	5.2	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	8.5	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	11	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	17	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	6.4	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
75-15-0	<b>Carbon disulfide</b>	<b>8.2</b>		ug/m <sup>3</sup>	5.1	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	2.6	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	7.6	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	4.3	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	8.0	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	3.4	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>2.0</b>		ug/m <sup>3</sup>	1.6	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	7.5	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
110-82-7	<b>Cyclohexane</b>	<b>21</b>		ug/m <sup>3</sup>	5.7	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	14	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
75-71-8	Dichlorodifluoromethane	ND		ug/m <sup>3</sup>	8.1	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	12	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
100-41-4	<b>Ethyl Benzene</b>	<b>21</b>		ug/m <sup>3</sup>	7.1	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	18	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	8.1	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
80-62-6	<b>Methyl Methacrylate</b>	<b>11</b>		ug/m <sup>3</sup>	6.7	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	5.9	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS



### Sample Information

**Client Sample ID:** SG-6

**York Sample ID:** 19J0852-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 9:46 am

10/18/2019

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	41		ug/m <sup>3</sup>	11	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	6.7	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
110-54-3	n-Hexane	9.8		ug/m <sup>3</sup>	5.8	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
95-47-6	o-Xylene	24		ug/m <sup>3</sup>	7.1	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
179601-23-1	p- & m- Xylenes	63		ug/m <sup>3</sup>	14	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
622-96-8	* p-Ethyltoluene	27		ug/m <sup>3</sup>	8.1	16.42	EPA TO-15 Certifications:	10/22/2019 09:00	10/22/2019 21:28	AS
115-07-1	* Propylene	86		ug/m <sup>3</sup>	2.8	16.42	EPA TO-15 Certifications:	10/22/2019 09:00	10/22/2019 21:28	AS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	7.0	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
127-18-4	Tetrachloroethylene	8700		ug/m <sup>3</sup>	14	82.1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 07:59	AS
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	9.7	16.42	EPA TO-15 Certifications:	10/22/2019 09:00	10/22/2019 21:28	AS
108-88-3	Toluene	51		ug/m <sup>3</sup>	6.2	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	6.5	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	7.5	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
79-01-6	Trichloroethylene	23		ug/m <sup>3</sup>	2.2	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	9.2	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	5.8	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	7.2	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	1.0	16.42	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 21:28	AS
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	92.4 %		70-130						



### Sample Information

**Client Sample ID:** SG-7

**York Sample ID:** 19J0852-07

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 9:54 am

10/18/2019

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	4.7	6.836	EPA TO-15 Certifications:	10/22/2019 09:00	10/23/2019 08:50	AS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	3.7	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	4.7	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	5.2	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	9.3	17.09	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 22:19	AS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	2.8	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	0.68	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
120-82-1	<b>1,2,4-Trichlorobenzene</b>	<b>49</b>		ug/m <sup>3</sup>	13	17.09	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 22:19	AS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>27</b>		ug/m <sup>3</sup>	3.4	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	5.3	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	4.1	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	2.8	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	3.2	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	4.8	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>7.7</b>		ug/m <sup>3</sup>	3.4	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
106-99-0	<b>1,3-Butadiene</b>	<b>29</b>		ug/m <sup>3</sup>	4.5	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	4.1	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	3.2	6.836	EPA TO-15 Certifications:	10/22/2019 09:00	10/23/2019 08:50	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	4.1	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	4.9	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
78-93-3	<b>2-Butanone</b>	<b>18</b>		ug/m <sup>3</sup>	2.0	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	5.6	6.836	EPA TO-15 Certifications:	10/22/2019 09:00	10/23/2019 08:50	AS



### Sample Information

**Client Sample ID:** SG-7

**York Sample ID:** 19J0852-07

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 9:54 am

10/18/2019

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	27	17.09	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 22:19	AS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	7.0	17.09	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 22:19	AS
67-64-1	<b>Acetone</b>	<b>82</b>		ug/m <sup>3</sup>	3.2	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	3.7	17.09	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 22:19	AS
71-43-2	<b>Benzene</b>	<b>14</b>		ug/m <sup>3</sup>	2.2	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	3.5	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
75-27-4	<b>Bromodichloromethane</b>	<b>11</b>		ug/m <sup>3</sup>	11	17.09	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 22:19	AS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	7.1	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	2.7	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
75-15-0	<b>Carbon disulfide</b>	<b>13</b>		ug/m <sup>3</sup>	2.1	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	1.1	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	3.1	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	1.8	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	3.3	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	3.5	17.09	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 22:19	AS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>1.4</b>		ug/m <sup>3</sup>	0.68	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	3.1	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
110-82-7	<b>Cyclohexane</b>	<b>24</b>		ug/m <sup>3</sup>	2.4	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
124-48-1	<b>Dibromochloromethane</b>	<b>1300</b>		ug/m <sup>3</sup>	15	17.09	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 22:19	AS
75-71-8	Dichlorodifluoromethane	ND		ug/m <sup>3</sup>	3.4	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	4.9	6.836	EPA TO-15 Certifications:	10/22/2019 09:00	10/23/2019 08:50	AS
100-41-4	<b>Ethyl Benzene</b>	<b>19</b>		ug/m <sup>3</sup>	3.0	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS





### Sample Information

**Client Sample ID:** SG-7

**York Sample ID:** 19J0852-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 9:54 am

10/18/2019

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	18	17.09	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 22:19	AS
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	3.4	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
80-62-6	<b>Methyl Methacrylate</b>	<b>8.4</b>		ug/m <sup>3</sup>	2.8	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	2.5	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
75-09-2	<b>Methylene chloride</b>	<b>19</b>		ug/m <sup>3</sup>	4.7	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	2.8	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
110-54-3	<b>n-Hexane</b>	<b>18</b>		ug/m <sup>3</sup>	2.4	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
95-47-6	<b>o-Xylene</b>	<b>21</b>		ug/m <sup>3</sup>	3.0	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>56</b>		ug/m <sup>3</sup>	5.9	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
622-96-8	<b>* p-Ethyltoluene</b>	<b>26</b>		ug/m <sup>3</sup>	3.4	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
115-07-1	<b>* Propylene</b>	<b>400</b>		ug/m <sup>3</sup>	1.2	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	2.9	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
127-18-4	<b>Tetrachloroethylene</b>	<b>2000</b>		ug/m <sup>3</sup>	1.2	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	4.0	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
108-88-3	<b>Toluene</b>	<b>63</b>		ug/m <sup>3</sup>	2.6	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	2.7	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	3.1	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
79-01-6	<b>Trichloroethylene</b>	<b>2.2</b>		ug/m <sup>3</sup>	0.92	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	3.8	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	2.4	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	3.0	6.836	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 08:50	AS
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	1.1	17.09	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 22:19	AS



### Sample Information

Client Sample ID: SG-7

York Sample ID: 19J0852-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 9:54 am

10/18/2019

#### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	<b>Surrogate Recoveries</b>	<b>Result</b>								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	91.0 %								
				<b>Acceptance Range</b>						
				70-130						

### Sample Information

Client Sample ID: SG-9

York Sample ID: 19J0852-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 10:08 am

10/18/2019

#### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	11	16.73	EPA TO-15 Certifications:	10/22/2019 09:00	10/22/2019 23:09	AS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	9.1	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	11	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	13	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	9.1	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	6.8	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
75-35-4	<b>1,1-Dichloroethylene</b>	<b>41</b>		ug/m <sup>3</sup>	1.7	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	12	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>32</b>		ug/m <sup>3</sup>	8.2	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	13	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	10	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	6.8	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	7.7	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS



### Sample Information

**Client Sample ID:** SG-9

**York Sample ID:** 19J0852-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 10:08 am

10/18/2019

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	12	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
108-67-8	1,3,5-Trimethylbenzene	24		ug/m <sup>3</sup>	8.2	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
106-99-0	1,3-Butadiene	22		ug/m <sup>3</sup>	11	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	10	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	7.7	16.73	EPA TO-15 Certifications:	10/22/2019 09:00	10/22/2019 23:09	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	10	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	12	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
78-93-3	2-Butanone	24		ug/m <sup>3</sup>	4.9	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	14	16.73	EPA TO-15 Certifications:	10/22/2019 09:00	10/22/2019 23:09	AS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	26	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	6.9	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
67-64-1	Acetone	110		ug/m <sup>3</sup>	7.9	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	3.6	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
71-43-2	Benzene	14		ug/m <sup>3</sup>	5.3	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	8.7	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	11	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	17	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	6.5	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
75-15-0	Carbon disulfide	7.8		ug/m <sup>3</sup>	5.2	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	2.6	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	7.7	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	4.4	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS



### Sample Information

**Client Sample ID:** SG-9

**York Sample ID:** 19J0852-09

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 10:08 am

10/18/2019

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	8.2	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	3.5	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>7700</b>		ug/m <sup>3</sup>	8.3	83.65	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 09:41	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	7.6	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
110-82-7	<b>Cyclohexane</b>	<b>25</b>		ug/m <sup>3</sup>	5.8	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	14	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
75-71-8	Dichlorodifluoromethane	ND		ug/m <sup>3</sup>	8.3	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	12	16.73	EPA TO-15 Certifications:	10/22/2019 09:00	10/22/2019 23:09	AS
100-41-4	<b>Ethyl Benzene</b>	<b>39</b>		ug/m <sup>3</sup>	7.3	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	18	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	8.2	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	6.8	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	6.0	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	12	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	6.9	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
110-54-3	<b>n-Hexane</b>	<b>16</b>		ug/m <sup>3</sup>	5.9	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
95-47-6	<b>o-Xylene</b>	<b>200</b>		ug/m <sup>3</sup>	7.3	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>180</b>		ug/m <sup>3</sup>	15	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
622-96-8	* <b>p-Ethyltoluene</b>	<b>53</b>		ug/m <sup>3</sup>	8.2	16.73	EPA TO-15 Certifications:	10/22/2019 09:00	10/22/2019 23:09	AS
115-07-1	* <b>Propylene</b>	<b>200</b>		ug/m <sup>3</sup>	2.9	16.73	EPA TO-15 Certifications:	10/22/2019 09:00	10/22/2019 23:09	AS
100-42-5	<b>Styrene</b>	<b>7.8</b>		ug/m <sup>3</sup>	7.1	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
127-18-4	<b>Tetrachloroethylene</b>	<b>2200</b>		ug/m <sup>3</sup>	2.8	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS



### Sample Information

Client Sample ID: SG-9

York Sample ID: 19J0852-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 10:08 am

10/18/2019

### Volatile Organics, EPA TO15 Full List

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	9.9	16.73	EPA TO-15 Certifications:	10/22/2019 09:00	10/22/2019 23:09	AS
108-88-3	<b>Toluene</b>	<b>60</b>		ug/m <sup>3</sup>	6.3	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
156-60-5	<b>trans-1,2-Dichloroethylene</b>	<b>31</b>		ug/m <sup>3</sup>	6.6	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	7.6	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
79-01-6	<b>Trichloroethylene</b>	<b>240</b>		ug/m <sup>3</sup>	2.2	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	9.4	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	5.9	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	7.3	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
75-01-4	<b>Vinyl Chloride</b>	<b>3.8</b>		ug/m <sup>3</sup>	1.1	16.73	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/22/2019 23:09	AS
	<b>Surrogate Recoveries</b>	<b>Result</b>					<b>Acceptance Range</b>			
460-00-4	Surrogate: SURR: <i>p</i> -Bromofluorobenzene	91.6 %					70-130			

### Sample Information

Client Sample ID: SG-10

York Sample ID: 19J0852-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 10:15 am

10/18/2019

### Volatile Organics, EPA TO15 Full List

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	1.1	1.576	EPA TO-15 Certifications:	10/22/2019 09:00	10/23/2019 10:36	AS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	0.86	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	1.1	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	1.2	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	0.86	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS



### Sample Information

**Client Sample ID:** SG-10

**York Sample ID:** 19J0852-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 10:15 am

10/18/2019

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	0.64	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	0.16	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	1.2	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>26</b>		ug/m <sup>3</sup>	0.77	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	1.2	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.95	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	0.64	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	0.73	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	1.1	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>7.7</b>		ug/m <sup>3</sup>	0.77	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
106-99-0	<b>1,3-Butadiene</b>	<b>2.6</b>		ug/m <sup>3</sup>	1.0	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.95	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	0.73	1.576	EPA TO-15 Certifications:	10/22/2019 09:00	10/23/2019 10:36	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.95	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	1.1	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
78-93-3	<b>2-Butanone</b>	<b>9.0</b>		ug/m <sup>3</sup>	0.46	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	1.3	1.576	EPA TO-15 Certifications:	10/22/2019 09:00	10/23/2019 10:36	AS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	2.5	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	0.65	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
67-64-1	<b>Acetone</b>	<b>39</b>		ug/m <sup>3</sup>	0.75	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	0.34	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
71-43-2	<b>Benzene</b>	<b>5.0</b>		ug/m <sup>3</sup>	0.50	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS



### Sample Information

**Client Sample ID:** SG-10

**York Sample ID:** 19J0852-10

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 10:15 am

10/18/2019

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	0.82	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	1.1	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	1.6	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.61	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
75-15-0	<b>Carbon disulfide</b>	<b>3.2</b>		ug/m <sup>3</sup>	0.49	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	0.25	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	0.73	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.42	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
67-66-3	<b>Chloroform</b>	<b>1.1</b>		ug/m <sup>3</sup>	0.77	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	0.33	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>4.1</b>		ug/m <sup>3</sup>	0.16	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.72	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
110-82-7	<b>Cyclohexane</b>	<b>16</b>		ug/m <sup>3</sup>	0.54	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	1.3	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
75-71-8	<b>Dichlorodifluoromethane</b>	<b>2.1</b>		ug/m <sup>3</sup>	0.78	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
141-78-6	* <b>Ethyl acetate</b>	<b>2.5</b>		ug/m <sup>3</sup>	1.1	1.576	EPA TO-15 Certifications:	10/22/2019 09:00	10/23/2019 10:36	AS
100-41-4	<b>Ethyl Benzene</b>	<b>17</b>		ug/m <sup>3</sup>	0.68	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	1.7	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
67-63-0	<b>Isopropanol</b>	<b>3.9</b>		ug/m <sup>3</sup>	0.77	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
80-62-6	<b>Methyl Methacrylate</b>	<b>14</b>		ug/m <sup>3</sup>	0.65	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	0.57	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
75-09-2	<b>Methylene chloride</b>	<b>63</b>		ug/m <sup>3</sup>	1.1	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS



### Sample Information

**Client Sample ID:** SG-10

**York Sample ID:** 19J0852-10

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

19J0852

520 Albany Avenue Kingston, New York

Soil Vapor

October 17, 2019 10:15 am

10/18/2019

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

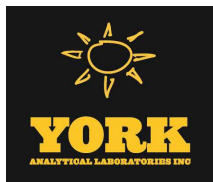
**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
142-82-5	n-Heptane	6.3		ug/m <sup>3</sup>	0.65	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
110-54-3	n-Hexane	7.1		ug/m <sup>3</sup>	0.56	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
95-47-6	o-Xylene	20		ug/m <sup>3</sup>	0.68	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
179601-23-1	p- & m- Xylenes	47		ug/m <sup>3</sup>	1.4	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
622-96-8	* p-Ethyltoluene	25		ug/m <sup>3</sup>	0.77	1.576	EPA TO-15 Certifications:	10/22/2019 09:00	10/23/2019 10:36	AS
115-07-1	* Propylene	15		ug/m <sup>3</sup>	0.27	1.576	EPA TO-15 Certifications:	10/22/2019 09:00	10/23/2019 10:36	AS
100-42-5	Styrene	1.5		ug/m <sup>3</sup>	0.67	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
127-18-4	Tetrachloroethylene	23		ug/m <sup>3</sup>	0.27	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	0.93	1.576	EPA TO-15 Certifications:	10/22/2019 09:00	10/23/2019 10:36	AS
108-88-3	Toluene	50		ug/m <sup>3</sup>	0.59	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.62	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.72	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
79-01-6	Trichloroethylene	3.1		ug/m <sup>3</sup>	0.21	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
75-69-4	Trichlorofluoromethane (Freon 11)	2.6		ug/m <sup>3</sup>	0.89	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	0.55	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	0.69	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	0.10	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/22/2019 09:00	10/23/2019 10:36	AS
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>					
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	94.2 %			70-130					







## Sample and Data Qualifiers Relating to This Work Order

- TO-VAC The final vacuum in the canister was less than -2 inches Hg vacuum. The time integrated sampling may be affected and not reflect proper sampling over the time period. The data user should take note.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.

### Definitions and Other Explanations

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

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

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

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

Certification for pH is no longer offered by NYDOH ELAP.

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



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

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Corrective Action: Sample SG-8 was cancelled due to receipt of the summa canister at full vacuum for this sample.



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

# Field Chain-of-Custody Record - AIR

YORK Project No.  
19J0852

This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

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

Page 1 of 1

<b>YOUR Information</b>		<b>Report To:</b>		<b>Invoice To:</b>		<b>YOUR Project Number</b>		<b>Turn-Around Time</b>	
Company: <u>WT Consulting Services Inc</u>	Company: <u>Same</u>	Company: <u>Same</u>	Company: <u>Same</u>	Company: <u>Same</u>	Company: <u>Same</u>	Company: <u>Same</u>	Company: <u>Same</u>	RUSH - Next Day	RUSH - Two Day
Address: <u>Deborah Thompson</u>	Address: <u>Deborah Thompson</u>	Address: <u>Deborah Thompson</u>	Address: <u>Deborah Thompson</u>	Address: <u>Deborah Thompson</u>	Address: <u>Deborah Thompson</u>	Address: <u>Deborah Thompson</u>	Address: <u>Deborah Thompson</u>	RUSH - Three Day	RUSH - Four Day
Phone: <u>Deborah Thompson</u>	Phone: <u>Deborah Thompson</u>	Phone: <u>Deborah Thompson</u>	Phone: <u>Deborah Thompson</u>	Phone: <u>Deborah Thompson</u>	Phone: <u>Deborah Thompson</u>	Phone: <u>Deborah Thompson</u>	Phone: <u>Deborah Thompson</u>	Standard (5-7 Day)	<input checked="" type="checkbox"/>
Contact: <u>Deborah Thompson</u>	Contact: <u>Deborah Thompson</u>	Contact: <u>Deborah Thompson</u>	Contact: <u>Deborah Thompson</u>	Contact: <u>Deborah Thompson</u>	Contact: <u>Deborah Thompson</u>	Contact: <u>Deborah Thompson</u>	Contact: <u>Deborah Thompson</u>	<b>YOUR Project Name</b>	
E-mail: <u>Deborah Thompson</u>	E-mail: <u>Deborah Thompson</u>	E-mail: <u>Deborah Thompson</u>	E-mail: <u>Deborah Thompson</u>	E-mail: <u>Deborah Thompson</u>	E-mail: <u>Deborah Thompson</u>	E-mail: <u>Deborah Thompson</u>	E-mail: <u>Deborah Thompson</u>	<u>520 Albany Avenue</u>	
								<u>Kingston, New York</u>	
								<b>YOUR PO#:</b>	

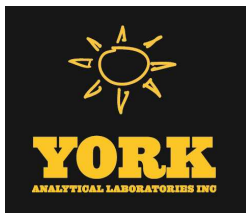
<b>Air Matrix Codes</b>		<b>Samples From</b>		<b>Report / EDD Type</b> (circle selections)		<b>YORK Reg. Comp.</b>	
AI - Indoor Ambient Air	AO - Outdoor Amb. Air	AE - Vapor Extraction Well/Process Gas/Effluent	AS - Soil Vapor/Sub-Slab	Summary Report <input checked="" type="checkbox"/>	CT RCP	Standard Excel EDD	Compared to the following Regulation(s): (please fill in)
				QA Report	CT RCP DQA/DUE	EquiS (Standard)	
				NY ASP A Package	NUDEP Reduced Deliv.	NYSDEC EquiS	
				NY ASP B Package	NUDKQP	NUDEP SRP HazSite	
				Other:			

Certified Canisters: Batch		Individual		Please enter the following REQUIRED Field Data				Reporting Units: ug/m <sup>3</sup> <input checked="" type="checkbox"/> ppbv <input type="checkbox"/> ppmv <input type="checkbox"/>	
Sample Identification	Date/Time Sampled	Air Matrix	Canister Vacuum Before Sampling (in Hg)	Canister Vacuum After Sampling (in Hg)	Flow Cont. ID	Canister ID	Analysis Requested		
SG-1	10/17/19 922	AS	28.5	2.0	6876	20757	T0-15		
SG-2	924		30.0	3.0	5123	18295			
SG-3	927		29.0	2.0	5122	16976			
SG-4	934		29.0	4.0	7084	16975			
SG-5	938		28.5	0.0	7289	24113			
SG-6	944		30.0	6.0	7091	17349			
SG-7	954		28.0	10.0	5603	28303			
SG-8	1005		30.0	30.0	7421	28854			
SG-9	1008		30.0	7.0	7086	478			
SG-10	1015		28.0	6.0	6865	16954			

**Comments:** SG-8 No Δ in vacuum in 2hr. Sample time.

<b>Detection Limits Required</b>	<b>Sampling Media</b>
≤ 1 ug/m <sup>3</sup> Routine Survey	6 Liter Canister <input checked="" type="checkbox"/>
NYSDEC V1 Limits <input checked="" type="checkbox"/> Other	Tedlar Bag

Samples Relinquished by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
<u>Deborah Thompson</u>	10/18/19	<u>Chic</u>	10-18-19 12:10
<u>Deborah Thompson</u>	10/18/19 14:55	<u>TC Muhl</u>	10/21/19 11:50
<u>Deborah Thompson</u>	10/21/19 13:30	<u>Chic</u>	10-18-19 12:10
<u>Deborah Thompson</u>	10/21/19 13:30	<u>Chic</u>	10/21/19 11:50
<u>Deborah Thompson</u>	10/21/19 13:30	<u>Chic</u>	10/21/19 11:50



# Technical Report

prepared for:

**DT Consulting Services**  
1291 Old Post Road  
Ulster Park NY, 12487  
**Attention: Deborah Thompson**

Report Date: 11/25/2019  
**Client Project ID: 520 Albany Ave. Kingston, NY**  
York Project (SDG) No.: 19K0712

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE  
www.YORKLAB.com

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(203) 325-1371

132-02 89th AVENUE  
FAX (203) 357-0166

RICHMOND HILL, NY 11418  
ClientServices@yorklab.com

Report Date: 11/25/2019  
Client Project ID: 520 Albany Ave. Kingston, NY  
York Project (SDG) No.: 19K0712

**DT Consulting Services**  
1291 Old Post Road  
Ulster Park NY, 12487  
Attention: Deborah Thompson

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## 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 November 19, 2019 with a temperature of C. The project was identified as your project: **520 Albany Ave. Kingston, NY.**

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

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

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

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

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

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
19K0712-01	SG-8A	Soil Vapor	11/15/2019	11/19/2019

## **General Notes for York Project (SDG) No.: 19K0712**

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

**Approved By:**



**Benjamin Gulizia**  
Laboratory Director

**Date:** 11/25/2019





## Sample Information

**Client Sample ID:** SG-8A

**York Sample ID:** 19K0712-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19K0712

520 Albany Ave. Kingston, NY

Soil Vapor

November 15, 2019 3:25 pm

11/19/2019

**Volatile Organics, EPA TO15 Full List**

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	0.93	1.354	EPA TO-15 Certifications:	11/21/2019 09:00	11/21/2019 21:30	AS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	0.74	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	0.93	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	1.0	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	0.74	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	0.55	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	0.13	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	1.0	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>15</b>		ug/m <sup>3</sup>	0.67	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	1.0	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.81	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	0.55	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	0.63	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	0.95	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>4.3</b>		ug/m <sup>3</sup>	0.67	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
106-99-0	<b>1,3-Butadiene</b>	<b>2.6</b>		ug/m <sup>3</sup>	0.90	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.81	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	0.63	1.354	EPA TO-15 Certifications:	11/21/2019 09:00	11/21/2019 21:30	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.81	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
123-91-1	<b>1,4-Dioxane</b>	<b>4.6</b>		ug/m <sup>3</sup>	0.98	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
78-93-3	<b>2-Butanone</b>	<b>7.0</b>		ug/m <sup>3</sup>	0.40	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS





### Sample Information

**Client Sample ID:** SG-8A

**York Sample ID:** 19K0712-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19K0712

520 Albany Ave. Kingston, NY

Soil Vapor

November 15, 2019 3:25 pm

11/19/2019

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes: TO-VAC**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	5.9		ug/m <sup>3</sup>	1.1	1.354	EPA TO-15 Certifications:	11/21/2019 09:00	11/21/2019 21:30	AS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	2.1	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
108-10-1	4-Methyl-2-pentanone	6.5		ug/m <sup>3</sup>	0.55	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
67-64-1	Acetone	16		ug/m <sup>3</sup>	0.64	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
107-13-1	Acrylonitrile	1.1		ug/m <sup>3</sup>	0.29	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
71-43-2	Benzene	2.2		ug/m <sup>3</sup>	0.43	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	0.70	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	0.91	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	1.4	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.53	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
75-15-0	Carbon disulfide	10		ug/m <sup>3</sup>	0.42	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
56-23-5	Carbon tetrachloride	0.34		ug/m <sup>3</sup>	0.21	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	0.62	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.36	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	0.66	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
74-87-3	Chloromethane	1.4		ug/m <sup>3</sup>	0.28	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
156-59-2	cis-1,2-Dichloroethylene	0.75		ug/m <sup>3</sup>	0.13	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.61	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
110-82-7	Cyclohexane	2.1		ug/m <sup>3</sup>	0.47	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	1.2	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
75-71-8	Dichlorodifluoromethane	2.1		ug/m <sup>3</sup>	0.67	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
141-78-6	* Ethyl acetate	5.4		ug/m <sup>3</sup>	0.98	1.354	EPA TO-15 Certifications:	11/21/2019 09:00	11/21/2019 21:30	AS



### Sample Information

**Client Sample ID:** SG-8A

**York Sample ID:** 19K0712-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19K0712

520 Albany Ave. Kingston, NY

Soil Vapor

November 15, 2019 3:25 pm

11/19/2019

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes: TO-VAC**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	3.3		ug/m <sup>3</sup>	0.59	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	1.4	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
67-63-0	Isopropanol	3.9		ug/m <sup>3</sup>	0.67	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
80-62-6	Methyl Methacrylate	5.2		ug/m <sup>3</sup>	0.55	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	0.49	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	0.94	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
142-82-5	n-Heptane	1.6		ug/m <sup>3</sup>	0.55	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
110-54-3	n-Hexane	1.4		ug/m <sup>3</sup>	0.48	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
95-47-6	o-Xylene	7.1		ug/m <sup>3</sup>	0.59	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
179601-23-1	p- & m- Xylenes	14		ug/m <sup>3</sup>	1.2	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
622-96-8	* p-Ethyltoluene	12		ug/m <sup>3</sup>	0.67	1.354	EPA TO-15 Certifications:	11/21/2019 09:00	11/21/2019 21:30	AS
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	0.23	1.354	EPA TO-15 Certifications:	11/21/2019 09:00	11/21/2019 21:30	AS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	0.58	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
127-18-4	Tetrachloroethylene	57		ug/m <sup>3</sup>	0.92	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
109-99-9	* Tetrahydrofuran	3.9		ug/m <sup>3</sup>	0.80	1.354	EPA TO-15 Certifications:	11/21/2019 09:00	11/21/2019 21:30	AS
108-88-3	Toluene	5.6		ug/m <sup>3</sup>	0.51	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.54	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.61	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
79-01-6	Trichloroethylene	0.65		ug/m <sup>3</sup>	0.18	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
75-69-4	Trichlorofluoromethane (Freon 11)	1.4		ug/m <sup>3</sup>	0.76	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
108-05-4	Vinyl acetate	0.86		ug/m <sup>3</sup>	0.48	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	0.59	1.354	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/21/2019 09:00	11/21/2019 21:30	AS



**Sample Information**

**Client Sample ID:** SG-8A

**York Sample ID:** 19K0712-01

York Project (SDG) No.  
19K0712

Client Project ID  
520 Albany Ave. Kingston, NY

Matrix  
Soil Vapor

Collection Date/Time  
November 15, 2019 3:25 pm

Date Received  
11/19/2019

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes: TO-VAC**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	0.087	1.354	EPA TO-15	11/21/2019 09:00	11/21/2019 21:30	AS	
							Certifications:	NELAC-NY12058,NJDEP-Queens			
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	105 %	70-130								





## Sample and Data Qualifiers Relating to This Work Order

TO-VAC	The final vacuum in the canister was less than -2 inches Hg vacuum. The time integrated sampling may be affected and not reflect proper sampling over the time period. The data user should take note.
TO-LCS-L	The result reported for this compound may be biased low due to its behavior in the analysis batch LCS where it recovered less 70% of the expected value.
TO-CCV	The value reported is ESTIMATED for this compound due to its behavior during continuing calibration verification (>30% Difference from initial calibration).

### Definitions and Other Explanations

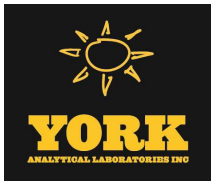
*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration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

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

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

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

Certification for pH is no longer offered by NYDOH ELAP.



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

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

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