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Sterling Environmental Engineering, P.C.

April 25, 2018

Mr. Wayne D. Mizerak
NYS Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau C
625 Broadway, 11th Floor
Albany, New York 12233-7015

Subject: Apple Valley Shopping Center, LaGrange, New York
Site No. 314084
STERLING File #23008

Dear Mr. Mizerak,

A supplemental vapor investigation, consisting of samples collected from the two (2) operating sub-slab depressurization systems (SSDSs) and one (1) outdoor ambient air location, was conducted at the Apple Valley Shopping Center on January 19, 2018 as discussed during our conference call on January 11, 2018 and letter dated January 19, 2018. The flow regulator for the 'SSDS-W' sample location malfunctioned during the January 19, 2018 sampling event and the sample data for this location was deemed unusable by the laboratory. As such, a subsequent sampling event was conducted on March 6, 2018. A Sample Location Map is provided as Figure 1.

During each sampling event, samples were withdrawn from sampling ports prior to the in-line exhaust fans (see attached photograph log) and one (1) ambient outdoor air sample was obtained at the sample time to determine the background condition. SSDS and ambient outdoor air sample collection was conducted utilizing laboratory-prepared Summa canisters equipped with 8-hour laboratory-calibrated regulators. Air samples were analyzed for Volatile Organic Compounds (VOCs) via USEPA Method TO-15.

Results:

Analytical results for the January 19, 2018 and March 6, 2018 sampling events are attached. A summary of the analytical data for the January 19, 2018 sampling event is as follows:

			Location	**OA-13**	**SSDS-E**
			Sample Date	**01-19-2018**	**01-19-2018**
Analyte	**Min. Guidance Value**	**Unit**		**Result**	**Result**
1,1,1-Trichloroethane	<100	ug/m^3		ND< 0.9	ND< 0.73
1,1-Dichloroethene	<6	ug/m^3		ND< 0.16	ND< 0.13
Carbon Tetrachloride	<6	ug/m^3		0.42	0.42
Cis-1,2-Dichloroethylene	<6	ug/m^3		ND< 0.16	ND< 0.13
Methylene Chloride	<100	ug/m^3		ND< 1.1	ND< 0.93
Tetrachloroethylene (PCE)	<100	ug/m^3		ND< 0.28	1.2
Trichloroethylene (TCE)	<6	ug/m^3		ND< 0.22	0.43
Vinyl Chloride	<6	ug/m^3		ND< 0.11	ND< 0.086

A summary of the analytical data for the March 6, 2018 sampling event is as follows:

		Location Sample Date	OA-13 03/06/2018	SSDS-E 03/06/2018	SSDS-W 03/06/2018
Analyte	**Min. Guidance Value**	**Unit**	**Result**	**Result**	**Result**
1,1,1-Trichloroethane	<100	ug/m^3	ND< 0.82	ND< 0.82	ND< 0.82
1,1-Dichloroethene	<6	ug/m^3	ND< 0.59	ND< 0.59	ND< 0.59
Carbon Tetrachloride	<6	ug/m^3	0.82 J	0.82 J	ND< 0.94
Cis-1,2-Dichloroethylene	<6	ug/m^3	ND< 0.59	ND< 0.59	ND< 0.59
Methylene Chloride	<100	ug/m^3	0.97	1.7	1.4
Tetrachloroethylene (PCE)	<100	ug/m^3	ND< 1.0	24	6.3
Trichloroethylene (TCE)	<6	ug/m^3	ND< 0.81	1.2	ND< 0.81
Vinyl Chloride	<6	ug/m^3	ND< 0.38	ND< 0.38	ND< 0.38

Notes:

- Standards are for respective NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York - 2017 Revised Decision Matrices A, B & C;
- ND = Not detected at shown MDL for sample.
- J = Analyte detected below quantitation limit.

Ambient outdoor air (i.e. sample OA-13) analytical data indicate low background concentrations of carbon tetrachloride and/or methylene chloride were present during sample collection events. SSDS analytical data were consistent between sample locations and sample collection events.

Conclusions and Recommendations:

Analytical results from the SSDS exhaust and ambient outdoor air samples were compared to minimum guidance values established for sub-slab vapor concentrations by the May 2017 update to the Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Detected parameters in the SSDS exhaust samples obtained during the January 19, 2018 and March 6, 2018 sampling events were below minimum established guidance criteria for sub-slab vapor concentrations.

Tetrachloroethylene (PCE) was detected at a concentration of 24 ug/m^3 at sample location SSDS-E on March 6, 2018. Sample location SSDS-E is associated with the Walgreens building which is equipped with a vapor guard that reduces or eliminates sub-slab vapor exposure to building occupants.

On this basis, it appears the vapor migration pathway is no longer a concern. At this time, we recommend that the previously implemented Interim Remedial Measures (IRM) be accepted as the permanent remedy and that the previously proposed enhancements to the groundwater pumping system be implemented.

We further recommend that the operation of the SSDS be terminated at this time.

MAP REFERENCE: USGS POUGHKEEPSIE-NEWBURGH, NEW YORK, APRIL 2013

LEGEND:

- ● APPROXIMATE OUTDOOR AIR SAMPLE LOCATION
- ■ APPROXIMATE SUB-SLAB DEPRESSURIZATION SYSTEM SAMPLE LOCATION

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24 Wade Road • Latham, New York 12110

SAMPLE LOCATION MAP

APPLE VALLEY SHOPPING CENTER

702 N.Y.S. ROUTE 55

LAGRANGE DUTCHESS CO., N.Y.

PROJ. No.:	23008	DATE:	4/16/2018	SCALE:	1" = 100'	DWG. NO.	23008011	FIGURE	1

S:\Drawings\23008 - Apple Valley Shopping Center\23008011.2018SSDS Sampling.dwg CAD 4/18/2018 6:35 PM

Please let me know if you have any questions or require additional information.

Very truly yours,

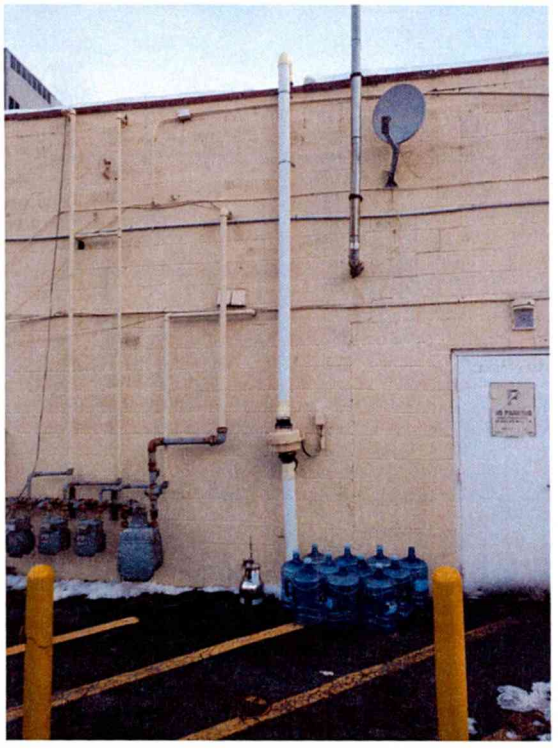
STERLING ENVIRONMENTAL ENGINEERING, P.C.

Mark P. Millspaugh, P.E.
President
mark.millspaugh@sterlingenvironmental.com

MPM/bc
Email/First Class Mail
Attachments

cc: David Engel

S:\Sterling\Projects\2003 Projects\Apple Valley - 23008\Correspondence\2018\2018-04-25_NYSDEC-SSDS Sampling Results.docx



Photograph 1: Sample location SSDS-W.

Photograph 2: Close-up of sample SSDS-W.

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Photograph 3: Sample SSDS-W sample port with shut-off valve.
Shut-off valve shown in "off" position and turned on prior to sampling.

Photograph 4: Sample location SSDS-E.

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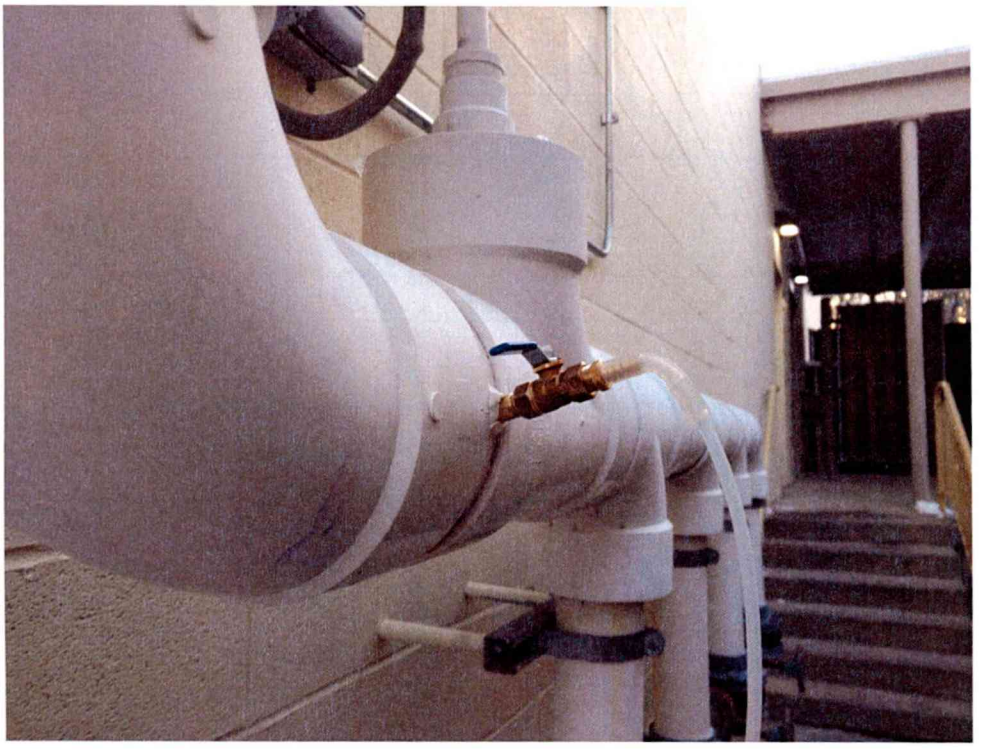
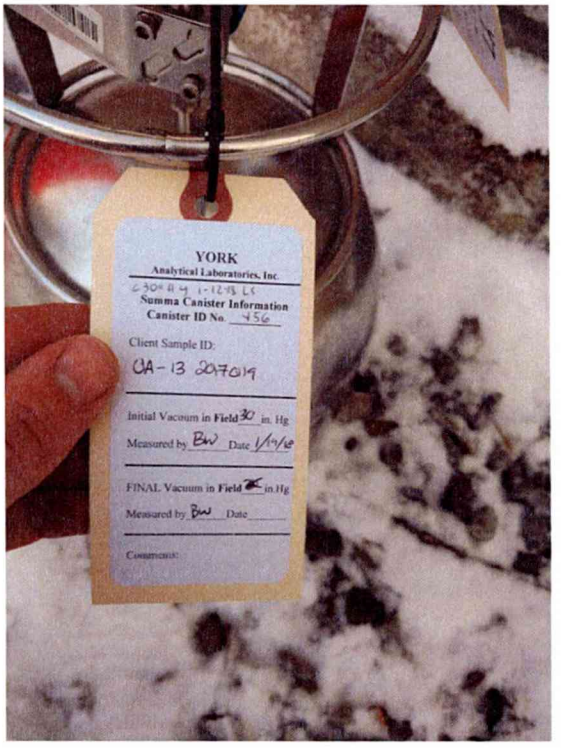


Photograph 5: Sample SSDS-E sample port with shut-off valve.
Shut-off valve shown in "off" position and turned on prior to sampling.



Photograph 6: Close-up of sample OA-13 placed at western portion of site.

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Technical Report

prepared for:

PVE, LLC.
48 Springside Avenue
Poughkeepsie NY, 12603
Attention: Conor Tarbell

Report Date: 01/30/2018
Client Project ID: 560537
York Project (SDG) No.: 18A0686

Report Date: 01/30/2018
Client Project ID: 560537
York Project (SDG) No.: 18A0686

PVE, LLC.
48 Springside Avenue
Poughkeepsie NY, 12603
Attention: Conor Tarbell

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 January 23, 2018 and listed below. The project was identified as your project: **560537**.

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

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

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

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

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

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
18A0686-01	SSDS-W 20180119	Vapor Extraction	01/19/2018	01/23/2018
18A0686-02	SSDS-E 20180119	Vapor Extraction	01/19/2018	01/23/2018
18A0686-03	OA-13 20180119	Outdoor Ambient Ai	01/19/2018	01/23/2018

General Notes for York Project (SDG) No.: 18A0686

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

Approved By: 

Date: 01/30/2018

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: SSDS-W 20180119 **York Sample ID:** 18A0686-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18A0686	560537	Vapor Extraction	January 19, 2018 3:00 pm	01/23/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	2.4	3.555	EPA TO-15	01/30/2018 01:37	01/30/2018 01:37	LDS
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	1.9	3.555	EPA TO-15	01/30/2018 01:37	01/30/2018 01:37	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	2.4	3.555	EPA TO-15	01/30/2018 01:37	01/30/2018 01:37	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	2.7	3.555	EPA TO-15	01/30/2018 01:37	01/30/2018 01:37	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	1.9	3.555	EPA TO-15	01/30/2018 01:37	01/30/2018 01:37	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND		ug/m³	1.4	3.555	EPA TO-15	01/30/2018 01:37	01/30/2018 01:37	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.35	3.555	EPA TO-15	01/30/2018 01:37	01/30/2018 01:37	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	2.6	3.555	EPA TO-15	01/30/2018 01:37	01/30/2018 01:37	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	1.7	3.555	EPA TO-15	01/30/2018 01:37	01/30/2018 01:37	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-93-4	1,2-Dibromoethane	ND		ug/m³	2.7	3.555	EPA TO-15	01/30/2018 01:37	01/30/2018 01:37	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	2.1	3.555	EPA TO-15	01/30/2018 01:37	01/30/2018 01:37	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-06-2	1,2-Dichloroethane	ND		ug/m³	1.4	3.555	EPA TO-15	01/30/2018 01:37	01/30/2018 01:37	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-87-5	1,2-Dichloropropane	ND		ug/m³	1.6	3.555	EPA TO-15	01/30/2018 01:37	01/30/2018 01:37	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	2.5	3.555	EPA TO-15	01/30/2018 01:37	01/30/2018 01:37	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	1.7	3.555	EPA TO-15	01/30/2018 01:37	01/30/2018 01:37	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	1,3-Butadiene	ND		ug/m³	2.4	3.555	EPA TO-15	01/30/2018 01:37	01/30/2018 01:37	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	2.1	3.555	EPA TO-15	01/30/2018 01:37	01/30/2018 01:37	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	1.6	3.555	EPA TO-15	01/30/2018 01:37	01/30/2018 01:37	LDS
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	2.1	3.555	EPA TO-15	01/30/2018 01:37	01/30/2018 01:37	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND		ug/m³	2.6	3.555	EPA TO-15	01/30/2018 01:37	01/30/2018 01:37	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: SSDS-W 20180119 **York Sample ID:** 18A0686-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18A0686	560537	Vapor Extraction	January 19, 2018 3:00 pm	01/23/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-93-3	2-Butanone	ND		ug/m³	1.0	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	2.9	3.555	EPA TO-15 Certifications:	01/30/2018 01:37	01/30/2018 01:37	LDS
107-05-1	3-Chloropropene	ND		ug/m³	5.6	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	1.5	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
67-64-1	**Acetone**	**43**		ug/m³	1.7	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.77	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
71-43-2	Benzene	ND		ug/m³	1.1	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
100-44-7	Benzyl chloride	ND		ug/m³	1.8	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	2.4	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
75-25-2	Bromoform	ND		ug/m³	3.7	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
74-83-9	Bromomethane	ND		ug/m³	1.4	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
75-15-0	Carbon disulfide	ND		ug/m³	1.1	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
56-23-5	Carbon tetrachloride	ND		ug/m³	0.56	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
108-90-7	Chlorobenzene	ND		ug/m³	1.6	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
75-00-3	Chloroethane	ND		ug/m³	0.94	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
67-66-3	Chloroform	ND		ug/m³	1.7	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
74-87-3	Chloromethane	ND		ug/m³	0.73	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.35	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	1.6	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
110-82-7	Cyclohexane	ND		ug/m³	1.2	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	3.0	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS

Sample Information

Client Sample ID: SSDS-W 20180119 **York Sample ID:** 18A0686-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18A0686	560537	Vapor Extraction	January 19, 2018 3:00 pm	01/23/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ug/m³	1.8	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
141-78-6	* Ethyl acetate	ND		ug/m³	2.6	3.555	EPA TO-15 Certifications:	01/30/2018 01:37	01/30/2018 01:37	LDS
100-41-4	Ethyl Benzene	ND		ug/m³	1.5	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	3.8	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
67-63-0	Isopropanol	ND		ug/m³	1.7	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
80-62-6	Methyl Methacrylate	ND		ug/m³	1.5	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	1.3	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
75-09-2	Methylene chloride	ND		ug/m³	2.5	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
142-82-5	n-Heptane	ND		ug/m³	1.5	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
110-54-3	n-Hexane	ND		ug/m³	1.3	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
95-47-6	o-Xylene	ND		ug/m³	1.5	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
179601-23-1	p- & m- Xylenes	ND		ug/m³	3.1	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m³	1.7	3.555	EPA TO-15 Certifications:	01/30/2018 01:37	01/30/2018 01:37	LDS
115-07-1	* **Propylene**	**0.73**		ug/m³	0.61	3.555	EPA TO-15 Certifications:	01/30/2018 01:37	01/30/2018 01:37	LDS
100-42-5	Styrene	ND		ug/m³	1.5	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
127-18-4	Tetrachloroethylene	ND		ug/m³	0.60	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m³	2.1	3.555	EPA TO-15 Certifications:	01/30/2018 01:37	01/30/2018 01:37	LDS
108-88-3	**Toluene**	**1.6**		ug/m³	1.3	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	1.4	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	1.6	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
79-01-6	Trichloroethylene	ND		ug/m³	0.48	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	2.0	3.555	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 01:37	01/30/2018 01:37	LDS

Sample Information

Client Sample ID: SSDS-W 20180119 **York Sample ID:** 18A0686-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18A0686	560537	Vapor Extraction	January 19, 2018 3:00 pm	01/23/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-05-4	Vinyl acetate	ND		ug/m³	1.3	3.555	EPA TO-15	01/30/2018 01:37	01/30/2018 01:37	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
593-60-2	Vinyl bromide	ND		ug/m³	1.6	3.555	EPA TO-15	01/30/2018 01:37	01/30/2018 01:37	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-01-4	Vinyl Chloride	ND		ug/m³	0.23	3.555	EPA TO-15	01/30/2018 01:37	01/30/2018 01:37	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*92.0 %*	*70-130*

Sample Information

Client Sample ID: SSDS-E 20180119 **York Sample ID:** 18A0686-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18A0686	560537	Vapor Extraction	January 19, 2018 3:00 pm	01/23/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.92	1.34	EPA TO-15	01/30/2018 02:32	01/30/2018 02:32	LDS
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.73	1.34	EPA TO-15	01/30/2018 02:32	01/30/2018 02:32	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.92	1.34	EPA TO-15	01/30/2018 02:32	01/30/2018 02:32	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.0	1.34	EPA TO-15	01/30/2018 02:32	01/30/2018 02:32	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.73	1.34	EPA TO-15	01/30/2018 02:32	01/30/2018 02:32	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.54	1.34	EPA TO-15	01/30/2018 02:32	01/30/2018 02:32	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.13	1.34	EPA TO-15	01/30/2018 02:32	01/30/2018 02:32	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.99	1.34	EPA TO-15	01/30/2018 02:32	01/30/2018 02:32	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
95-63-6	**1,2,4-Trimethylbenzene**	**1.5**		ug/m³	0.66	1.34	EPA TO-15	01/30/2018 02:32	01/30/2018 02:32	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.0	1.34	EPA TO-15	01/30/2018 02:32	01/30/2018 02:32	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.81	1.34	EPA TO-15	01/30/2018 02:32	01/30/2018 02:32	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			

Sample Information

Client Sample ID: SSDS-E 20180119 **York Sample ID:** 18A0686-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18A0686	560537	Vapor Extraction	January 19, 2018 3:00 pm	01/23/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.54	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.62	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.94	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.66	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	0.89	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.81	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.62	1.34	EPA TO-15 Certifications:	01/30/2018 02:32	01/30/2018 02:32	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.81	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	0.97	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
78-93-3	**2-Butanone**	**4.5**		ug/m³	0.40	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	1.1	1.34	EPA TO-15 Certifications:	01/30/2018 02:32	01/30/2018 02:32	LDS
107-05-1	3-Chloropropene	ND		ug/m³	2.1	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.55	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
67-64-1	**Acetone**	**26**		ug/m³	0.64	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.29	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
71-43-2	**Benzene**	**1.6**		ug/m³	0.43	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
100-44-7	Benzyl chloride	ND		ug/m³	0.69	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	0.90	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
75-25-2	Bromoform	ND		ug/m³	1.4	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
74-83-9	Bromomethane	ND		ug/m³	0.52	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
75-15-0	Carbon disulfide	ND		ug/m³	0.42	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
56-23-5	**Carbon tetrachloride**	**0.42**		ug/m³	0.21	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS

Sample Information

Client Sample ID: SSDS-E 20180119 **York Sample ID:** 18A0686-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18A0686	560537	Vapor Extraction	January 19, 2018 3:00 pm	01/23/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/m³	0.62	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
75-00-3	Chloroethane	ND		ug/m³	0.35	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
67-66-3	Chloroform	ND		ug/m³	0.65	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
74-87-3	**Chloromethane**	**0.69**		ug/m³	0.28	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.13	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.61	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
110-82-7	**Cyclohexane**	**0.74**		ug/m³	0.46	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	1.1	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
75-71-8	**Dichlorodifluoromethane**	**3.0**		ug/m³	0.66	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
141-78-6	* Ethyl acetate	ND		ug/m³	0.97	1.34	EPA TO-15 Certifications:	01/30/2018 02:32	01/30/2018 02:32	LDS
100-41-4	**Ethyl Benzene**	**1.7**		ug/m³	0.58	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.4	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
67-63-0	**Isopropanol**	**1.4**		ug/m³	0.66	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
80-62-6	Methyl Methacrylate	ND		ug/m³	0.55	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.48	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
75-09-2	Methylene chloride	ND		ug/m³	0.93	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
142-82-5	**n-Heptane**	**1.4**		ug/m³	0.55	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
110-54-3	**n-Hexane**	**1.4**		ug/m³	0.47	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
95-47-6	**o-Xylene**	**2.0**		ug/m³	0.58	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
179601-23-1	**p- & m- Xylenes**	**5.4**		ug/m³	1.2	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 02:32	01/30/2018 02:32	LDS
622-96-8	* **p-Ethyltoluene**	**1.6**		ug/m³	0.66	1.34	EPA TO-15 Certifications:	01/30/2018 02:32	01/30/2018 02:32	LDS
115-07-1	* **Propylene**	**1.7**		ug/m³	0.23	1.34	EPA TO-15 Certifications:	01/30/2018 02:32	01/30/2018 02:32	LDS

Sample Information

Client Sample ID: SSDS-E 20180119 **York Sample ID:** 18A0686-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18A0686	560537	Vapor Extraction	January 19, 2018 3:00 pm	01/23/2018

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

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND		ug/m³	0.57	1.34	EPA TO-15	01/30/2018 02:32	01/30/2018 02:32	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
127-18-4	**Tetrachloroethylene**	**1.2**		ug/m³	0.23	1.34	EPA TO-15	01/30/2018 02:32	01/30/2018 02:32	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
109-99-9	* **Tetrahydrofuran**	**7.9**		ug/m³	0.79	1.34	EPA TO-15	01/30/2018 02:32	01/30/2018 02:32	LDS
							Certifications:			
108-88-3	**Toluene**	**7.5**		ug/m³	0.50	1.34	EPA TO-15	01/30/2018 02:32	01/30/2018 02:32	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.53	1.34	EPA TO-15	01/30/2018 02:32	01/30/2018 02:32	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.61	1.34	EPA TO-15	01/30/2018 02:32	01/30/2018 02:32	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
79-01-6	**Trichloroethylene**	**0.43**		ug/m³	0.18	1.34	EPA TO-15	01/30/2018 02:32	01/30/2018 02:32	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.4**		ug/m³	0.75	1.34	EPA TO-15	01/30/2018 02:32	01/30/2018 02:32	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-05-4	Vinyl acetate	ND		ug/m³	0.47	1.34	EPA TO-15	01/30/2018 02:32	01/30/2018 02:32	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
593-60-2	Vinyl bromide	ND		ug/m³	0.59	1.34	EPA TO-15	01/30/2018 02:32	01/30/2018 02:32	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-01-4	Vinyl Chloride	ND		ug/m³	0.086	1.34	EPA TO-15	01/30/2018 02:32	01/30/2018 02:32	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*97.4 %*	*70-130*

Sample Information

Client Sample ID: OA-13 20180119 **York Sample ID:** 18A0686-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18A0686	560537	Outdoor Ambient Air	January 19, 2018 3:00 pm	01/23/2018

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

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.1	1.654	EPA TO-15	01/30/2018 03:26	01/30/2018 03:26	LDS
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.90	1.654	EPA TO-15	01/30/2018 03:26	01/30/2018 03:26	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.1	1.654	EPA TO-15	01/30/2018 03:26	01/30/2018 03:26	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			

Sample Information

Client Sample ID: OA-13 20180119 **York Sample ID:** 18A0686-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18A0686	560537	Outdoor Ambient Air	January 19, 2018 3:00 pm	01/23/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.3	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.90	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.67	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.16	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.2	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.81	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.3	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.99	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.67	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.76	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.2	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.81	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	1.1	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.99	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.76	1.654	EPA TO-15 Certifications:	01/30/2018 03:26	01/30/2018 03:26	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.99	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	1.2	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
78-93-3	**2-Butanone**	**1.1**		ug/m³	0.49	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	1.4	1.654	EPA TO-15 Certifications:	01/30/2018 03:26	01/30/2018 03:26	LDS
107-05-1	3-Chloropropene	ND		ug/m³	2.6	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.68	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
67-64-1	**Acetone**	**5.5**		ug/m³	0.79	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS

Sample Information

Client Sample ID: OA-13 20180119 **York Sample ID:** 18A0686-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18A0686	560537	Outdoor Ambient Air	January 19, 2018 3:00 pm	01/23/2018

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

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-13-1	Acrylonitrile	ND		ug/m³	0.36	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
71-43-2	**Benzene**	**1.0**		ug/m³	0.53	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
100-44-7	Benzyl chloride	ND		ug/m³	0.86	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	1.1	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
75-25-2	Bromoform	ND		ug/m³	1.7	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
74-83-9	Bromomethane	ND		ug/m³	0.64	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
75-15-0	Carbon disulfide	ND		ug/m³	0.52	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
56-23-5	**Carbon tetrachloride**	**0.42**		ug/m³	0.26	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
108-90-7	Chlorobenzene	ND		ug/m³	0.76	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
75-00-3	Chloroethane	ND		ug/m³	0.44	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
67-66-3	Chloroform	ND		ug/m³	0.81	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
74-87-3	**Chloromethane**	**0.72**		ug/m³	0.34	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.16	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.75	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
110-82-7	Cyclohexane	ND		ug/m³	0.57	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	1.4	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
75-71-8	**Dichlorodifluoromethane**	**2.9**		ug/m³	0.82	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
141-78-6	* Ethyl acetate	ND		ug/m³	1.2	1.654	EPA TO-15 Certifications:	01/30/2018 03:26	01/30/2018 03:26	LDS
100-41-4	Ethyl Benzene	ND		ug/m³	0.72	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.8	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
67-63-0	Isopropanol	ND		ug/m³	0.81	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
80-62-6	Methyl Methacrylate	ND		ug/m³	0.68	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS

Sample Information

Client Sample ID: OA-13 20180119 **York Sample ID:** 18A0686-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18A0686	560537	Outdoor Ambient Air	January 19, 2018 3:00 pm	01/23/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.60	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
75-09-2	Methylene chloride	ND		ug/m³	1.1	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
142-82-5	n-Heptane	ND		ug/m³	0.68	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
110-54-3	n-Hexane	ND		ug/m³	0.58	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
95-47-6	o-Xylene	ND		ug/m³	0.72	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
179601-23-1	p- & m- Xylenes	ND		ug/m³	1.4	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.81	1.654	EPA TO-15 Certifications:	01/30/2018 03:26	01/30/2018 03:26	LDS
115-07-1	*** Propylene**	**2.5**		ug/m³	0.28	1.654	EPA TO-15 Certifications:	01/30/2018 03:26	01/30/2018 03:26	LDS
100-42-5	Styrene	ND		ug/m³	0.70	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
127-18-4	Tetrachloroethylene	ND		ug/m³	0.28	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.98	1.654	EPA TO-15 Certifications:	01/30/2018 03:26	01/30/2018 03:26	LDS
108-88-3	**Toluene**	**0.81**		ug/m³	0.62	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.66	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.75	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
79-01-6	Trichloroethylene	ND		ug/m³	0.22	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.5**		ug/m³	0.93	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.58	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.72	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.11	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/30/2018 03:26	01/30/2018 03:26	LDS

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*95.6 %*	*70-130*

Sample and Data Qualifiers Relating to This Work Order

QL-03	This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.
CCV-A	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>30% Difference for average Rf). This applies to dectected analytes only.

Definitions and Other Explanations

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

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

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

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

Certification for pH is no longer offered by NYDOH ELAP.

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

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

Field Chain-of-Custody Record - AIR

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 18A0686

YOUR Information	Report To:	Invoice To:
Company: PVE, LLC	Company:	Company:
Address: 48 Springside Avenue Poughkeepsie, NY 12603	Address:	Address:
Phone No. 845-454-2544	Phone No.	Phone No.
Contact Person: Conor Tarbell	Attention:	Attention: Tara Alvarado talvarado@pve-llc.com
E-Mail Address: ctarbell@pve-llc.com	E-Mail Address:	E-Mail Address:

YOUR Project ID: 560537

Purchase Order No.

Samples from: CT ___ NY X NJ ___

Turn-Around Time

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

Report Type/Deliverables

- Summary Report X
- Summary w/ QA Summary
- CT RCP Package
- NY ASP A Package
- NY ASP B/CLP Pkg
- NJDEP Reduced
- *Electronic Deliverables:* NYSDEC EQUIS
- EDD (Specify Type)
- Standard Excel
- Regulatory Comparison Excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Benjamin Wolff
Samples Collected/Authorized By (Signature)

Benjamin Wolff
Name (printed)

Air Matrix Codes

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

Additional Notes:

Please enter the following Field Data

Detection Limits Required

- ≤ 1 ug/m³ X
- NYSDEC VI Limits (VI =vapor intrusion)
- NJDEP low level
- Routine Survey
- Other

Special Instructions

Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Canister ID	Flow Cont.ID	ANALYSES REQUESTED	Sampling Media
SSDS-W 20180119	01/19/18	AE	20	19	Y50	Y34	TO-15	6 Liter canister X / Tedlar Bag
SSDS-E 20180119	↓	AE	25	4	Y48	Y49	↓	6 Liter canister X / Tedlar Bag
OA-13 20180119	↓	AO	30	9	Y56	Y7	↓	6 Liter canister X / Tedlar Bag
								6 Liter canister / Tedlar Bag
								6 Liter canister / Tedlar Bag
								6 Liter canister / Tedlar Bag
								6 Liter canister / Tedlar Bag
								6 Liter canister / Tedlar Bag
								6 Liter canister / Tedlar Bag
								6 Liter canister / Tedlar Bag

Comments

Benjamin Wolff 1/22/18 1229
Samples Relinquished By Date/Time

Samples Relinquished By Date/Time

Samples Received By Date/Time

Samples Received in LAB by Date/Time

Centek Laboratories, LLC

Date: *16-Mar-18*

CLIENT:	PVE, LLC	**Client Sample ID:**	SSDS-W 20180306
Lab Order:	C1803029	**Tag Number:**	1905.01567
Project:	Apple Valley Shopping Center	**Collection Date:**	3/6/2018
Lab ID:	C1803029-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	3/13/2018 1:58:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/13/2018 1:58:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	3/13/2018 1:58:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	3/13/2018 1:58:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	3/13/2018 1:58:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/13/2018 1:58:00 AM
1,2,4-Trimethylbenzene	28	29	J	ug/m3	40	3/13/2018 4:31:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/13/2018 1:58:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/13/2018 1:58:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	3/13/2018 1:58:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	3/13/2018 1:58:00 AM
1,3,5-Trimethylbenzene	5.6	0.74		ug/m3	1	3/13/2018 1:58:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	3/13/2018 1:58:00 AM
1,3-Dichlorobenzene	4.8	0.90		ug/m3	1	3/13/2018 1:58:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/13/2018 1:58:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/13/2018 1:58:00 AM
2,2,4-trimethylpentane	24	28	J	ug/m3	40	3/13/2018 4:31:00 AM
4-ethyltoluene	5.3	0.74		ug/m3	1	3/13/2018 1:58:00 AM
Acetone	5000	570		ug/m3	810	3/13/2018 8:19:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	3/13/2018 1:58:00 AM
Benzene	5.9	0.48		ug/m3	1	3/13/2018 1:58:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	3/13/2018 1:58:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	3/13/2018 1:58:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	3/13/2018 1:58:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	3/13/2018 1:58:00 AM
Carbon disulfide	0.40	0.47	J	ug/m3	1	3/13/2018 1:58:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	3/13/2018 1:58:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	3/13/2018 1:58:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/13/2018 1:58:00 AM
Chloroform	0.54	0.73	J	ug/m3	1	3/13/2018 1:58:00 AM
Chloromethane	1.3	0.31		ug/m3	1	3/13/2018 1:58:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/13/2018 1:58:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	3/13/2018 1:58:00 AM
Cyclohexane	6.8	0.52		ug/m3	1	3/13/2018 1:58:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/13/2018 1:58:00 AM
Ethyl acetate	< 0.54	0.54		ug/m3	1	3/13/2018 1:58:00 AM
Ethylbenzene	21	26	J	ug/m3	40	3/13/2018 4:31:00 AM
Freon 11	1.4	0.84		ug/m3	1	3/13/2018 1:58:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	3/13/2018 1:58:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	3/13/2018 1:58:00 AM

Qualifiers:

**	Quantitation Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *16-Mar-18*

CLIENT:	PVE, LLC	**Client Sample ID:**	SSDS-W 20180306
Lab Order:	C1803029	**Tag Number:**	1905.01567
Project:	Apple Valley Shopping Center	**Collection Date:**	3/6/2018
Lab ID:	C1803029-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.2	0.74		ug/m3	1	3/13/2018 1:58:00 AM
Heptane	26	25		ug/m3	40	3/13/2018 4:31:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/13/2018 1:58:00 AM
Hexane	24	21		ug/m3	40	3/13/2018 4:31:00 AM
Isopropyl alcohol	53	15		ug/m3	40	3/13/2018 4:31:00 AM
m&p-Xylene	52	52		ug/m3	40	3/13/2018 4:31:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/13/2018 1:58:00 AM
Methyl Ethyl Ketone	35	35		ug/m3	40	3/13/2018 4:31:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/13/2018 1:58:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	3/13/2018 1:58:00 AM
Methylene chloride	1.4	0.52		ug/m3	1	3/13/2018 1:58:00 AM
o-Xylene	23	26	J	ug/m3	40	3/13/2018 4:31:00 AM
Propylene	< 0.26	0.26		ug/m3	1	3/13/2018 1:58:00 AM
Styrene	< 0.64	0.64		ug/m3	1	3/13/2018 1:58:00 AM
Tetrachloroethylene	6.3	1.0		ug/m3	1	3/13/2018 1:58:00 AM
Tetrahydrofuran	71	18		ug/m3	40	3/13/2018 4:31:00 AM
Toluene	89	23		ug/m3	40	3/13/2018 4:31:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/13/2018 1:58:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	3/13/2018 1:58:00 AM
Trichloroethene	< 0.81	0.81		ug/m3	1	3/13/2018 1:58:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	3/13/2018 1:58:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	3/13/2018 1:58:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	3/13/2018 1:58:00 AM

Qualifiers:

**	Quantitation Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *16-Mar-18*

CLIENT:	PVE, LLC	**Client Sample ID:**	SSDS-E 20180306
Lab Order:	C1803029	**Tag Number:**	1912.01564
Project:	Apple Valley Shopping Center	**Collection Date:**	3/6/2018
Lab ID:	C1803029-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	3/13/2018 2:39:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/13/2018 2:39:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	3/13/2018 2:39:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	3/13/2018 2:39:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	3/13/2018 2:39:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/13/2018 2:39:00 AM
1,2,4-Trimethylbenzene	18	15		ug/m3	20	3/13/2018 5:08:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/13/2018 2:39:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/13/2018 2:39:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	3/13/2018 2:39:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	3/13/2018 2:39:00 AM
1,3,5-Trimethylbenzene	7.0	0.74		ug/m3	1	3/13/2018 2:39:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	3/13/2018 2:39:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/13/2018 2:39:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/13/2018 2:39:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/13/2018 2:39:00 AM
2,2,4-trimethylpentane	7.6	0.70		ug/m3	1	3/13/2018 2:39:00 AM
4-ethyltoluene	7.9	0.74		ug/m3	1	3/13/2018 2:39:00 AM
Acetone	1200	190		ug/m3	270	3/13/2018 8:55:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	3/13/2018 2:39:00 AM
Benzene	4.0	0.48		ug/m3	1	3/13/2018 2:39:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	3/13/2018 2:39:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	3/13/2018 2:39:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	3/13/2018 2:39:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	3/13/2018 2:39:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	3/13/2018 2:39:00 AM
Carbon tetrachloride	0.82	0.94	J	ug/m3	1	3/13/2018 2:39:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	3/13/2018 2:39:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/13/2018 2:39:00 AM
Chloroform	0.59	0.73	J	ug/m3	1	3/13/2018 2:39:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	3/13/2018 2:39:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/13/2018 2:39:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	3/13/2018 2:39:00 AM
Cyclohexane	3.3	0.52		ug/m3	1	3/13/2018 2:39:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/13/2018 2:39:00 AM
Ethyl acetate	< 0.54	0.54		ug/m3	1	3/13/2018 2:39:00 AM
Ethylbenzene	11	13	J	ug/m3	20	3/13/2018 5:08:00 AM
Freon 11	1.6	0.84		ug/m3	1	3/13/2018 2:39:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	3/13/2018 2:39:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	3/13/2018 2:39:00 AM

Qualifiers:

**	Quantitation Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *16-Mar-18*

CLIENT:	PVE, LLC	**Client Sample ID:**	SSDS-E 20180306
Lab Order:	C1803029	**Tag Number:**	1912.01564
Project:	Apple Valley Shopping Center	**Collection Date:**	3/6/2018
Lab ID:	C1803029-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	3.3	0.74		ug/m3	1	3/13/2018 2:39:00 AM
Heptane	12	12		ug/m3	20	3/13/2018 5:08:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/13/2018 2:39:00 AM
Hexane	6.2	0.53		ug/m3	1	3/13/2018 2:39:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	3/13/2018 2:39:00 AM
m&p-Xylene	33	26		ug/m3	20	3/13/2018 5:08:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/13/2018 2:39:00 AM
Methyl Ethyl Ketone	30	18		ug/m3	20	3/13/2018 5:08:00 AM
Methyl Isobutyl Ketone	2.3	1.2		ug/m3	1	3/13/2018 2:39:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	3/13/2018 2:39:00 AM
Methylene chloride	1.7	0.52		ug/m3	1	3/13/2018 2:39:00 AM
o-Xylene	14	13		ug/m3	20	3/13/2018 5:08:00 AM
Propylene	< 0.26	0.26		ug/m3	1	3/13/2018 2:39:00 AM
Styrene	< 0.64	0.64		ug/m3	1	3/13/2018 2:39:00 AM
Tetrachloroethylene	24	20		ug/m3	20	3/13/2018 5:08:00 AM
Tetrahydrofuran	50	8.8		ug/m3	20	3/13/2018 5:08:00 AM
Toluene	32	11		ug/m3	20	3/13/2018 5:08:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/13/2018 2:39:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	3/13/2018 2:39:00 AM
Trichloroethene	1.2	0.81		ug/m3	1	3/13/2018 2:39:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	3/13/2018 2:39:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	3/13/2018 2:39:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	3/13/2018 2:39:00 AM

Qualifiers:

**	Quantitation Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *16-Mar-18*

CLIENT:	PVE, LLC	**Client Sample ID:**	OA-13 20180306
Lab Order:	C1803029	**Tag Number:**	1903.02195
Project:	Apple Valley Shopping Center	**Collection Date:**	3/6/2018
Lab ID:	C1803029-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	3/13/2018 1:15:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/13/2018 1:15:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	3/13/2018 1:15:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	3/13/2018 1:15:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	3/13/2018 1:15:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/13/2018 1:15:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	3/13/2018 1:15:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/13/2018 1:15:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/13/2018 1:15:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	3/13/2018 1:15:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	3/13/2018 1:15:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	3/13/2018 1:15:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	3/13/2018 1:15:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/13/2018 1:15:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/13/2018 1:15:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/13/2018 1:15:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	3/13/2018 1:15:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	3/13/2018 1:15:00 AM
Acetone	10	0.71		ug/m3	1	3/13/2018 1:15:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	3/13/2018 1:15:00 AM
Benzene	0.77	0.48		ug/m3	1	3/13/2018 1:15:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	3/13/2018 1:15:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	3/13/2018 1:15:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	3/13/2018 1:15:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	3/13/2018 1:15:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	3/13/2018 1:15:00 AM
Carbon tetrachloride	0.82	0.94	J	ug/m3	1	3/13/2018 1:15:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	3/13/2018 1:15:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/13/2018 1:15:00 AM
Chloroform	< 0.73	0.73		ug/m3	1	3/13/2018 1:15:00 AM
Chloromethane	1.2	0.31		ug/m3	1	3/13/2018 1:15:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/13/2018 1:15:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	3/13/2018 1:15:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	3/13/2018 1:15:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/13/2018 1:15:00 AM
Ethyl acetate	< 0.54	0.54		ug/m3	1	3/13/2018 1:15:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	3/13/2018 1:15:00 AM
Freon 11	1.8	0.84		ug/m3	1	3/13/2018 1:15:00 AM
Freon 113	0.92	1.1	J	ug/m3	1	3/13/2018 1:15:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	3/13/2018 1:15:00 AM

Qualifiers:

**	Quantitation Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *16-Mar-18*

CLIENT:	PVE, LLC	**Client Sample ID:**	OA-13 20180306
Lab Order:	C1803029	**Tag Number:**	1903.02195
Project:	Apple Valley Shopping Center	**Collection Date:**	3/6/2018
Lab ID:	C1803029-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	3.4	0.74		ug/m3	1	3/13/2018 1:15:00 AM
Heptane	0.45	0.61	J	ug/m3	1	3/13/2018 1:15:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/13/2018 1:15:00 AM
Hexane	0.49	0.53	J	ug/m3	1	3/13/2018 1:15:00 AM
Isopropyl alcohol	0.59	0.37		ug/m3	1	3/13/2018 1:15:00 AM
m&p-Xylene	< 1.3	1.3		ug/m3	1	3/13/2018 1:15:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/13/2018 1:15:00 AM
Methyl Ethyl Ketone	0.71	0.88	J	ug/m3	1	3/13/2018 1:15:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/13/2018 1:15:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	3/13/2018 1:15:00 AM
Methylene chloride	0.97	0.52		ug/m3	1	3/13/2018 1:15:00 AM
o-Xylene	< 0.65	0.65		ug/m3	1	3/13/2018 1:15:00 AM
Propylene	< 0.26	0.26		ug/m3	1	3/13/2018 1:15:00 AM
Styrene	< 0.64	0.64		ug/m3	1	3/13/2018 1:15:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	3/13/2018 1:15:00 AM
Tetrahydrofuran	0.74	0.44		ug/m3	1	3/13/2018 1:15:00 AM
Toluene	0.87	0.57		ug/m3	1	3/13/2018 1:15:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/13/2018 1:15:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	3/13/2018 1:15:00 AM
Trichloroethene	< 0.81	0.81		ug/m3	1	3/13/2018 1:15:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	3/13/2018 1:15:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	3/13/2018 1:15:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	3/13/2018 1:15:00 AM

Qualifiers:

**	Quantitation Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Centek Labs - Chain of Custody

Centek Laboratories
143 Midler Park Drive
Syracuse, NY 13206
315-431-9730
www.CentekLabs.com
Vapor Intrusion & IAQ

Site Name: Apple Valley Shopping Center
Project: 560537
PO#: 560537
Quote # Q-3P
Canister Order #: 7077

Detection Limit	Report Level
☐ 5ppbv	☑ Level I
☑ 1ug/M3	☐ Level II
☐ 1ug/M3 + 0.2 NYS	☐ Cat "B" Like
☐	☑ NYSDEC EDD EQUIS

TAT Turnaround Time:	Check One	Rush TAT Surcharge %	Due Date:
5 Business Days	☒	0%	
4 Business Days	☐	25%	
3 Business Days	☐	50%	
2 Business Days	☐	75%	
*Next Day by 5pm	☐	100%	
*Next Day by Noon	☐	150%	
*Same Day	☐	200%	

Company: PVE, LLC

Report to:
Address: 48 Springside Avenue
City, State, Zip: Poughkeepsie NY 12603
Email: bwolf@pve-llc.com
Phone: 845-454-2544

Company: Check Here If Same: ☑

Invoice to:
Address:
City, State, Zip:
Email: talvarado@pve-llc.com
Phone:

*For Same and Next Day TAT Please Notify Lab

Sample ID	Date Sampled	Canister Number	Regulator Number	Analysis Request	Field Vacuum Start / Stop	Labs Vacuum** Rec'd/Analysis	Comments
SSDS-W 20180306	3/6/2018	1905	01567	TO-15	29 / 12	-12 /	
SSDS-E 20180306	↓	1912	01564	↓	30 / 6	-6 /	
OA-13 20180306	↓	1903	02195	↓	29 / 6	-6 /	
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Chain of Custody	Print Name	Signature	Date/Time
Sampled by:	Benjamin Wolf	Benjamin Wolf	3/6/18 / 1550
Relinquished by:	Benjamin Wolf	Benjamin Wolf	3/9/18 / 0900
Received at Lab by:	NICK MANDARINO		3-12-18

Courier: CIRCLE ONE
FedEx UPS Pickup/Dropoff

**For LAB USE ONLY
Work Order # C1803029

Chain of Custody signature acknowledges agreement to Centek Labs Terms and Conditions listed on the reverse side.