SUB-SLAB DEPRESSURIZATION SYSTEM (SSDS) QUARTERLY MONITORING REPORT 520 Albany Avenue Kingston, Ulster County, New York September 23, 2014

1291 Old Post Road Ulster Park, New York 12487 (845) 658-3484 phone/(845) 658-3320 fax dtconsulting@hvc.rr.com

September 23, 2014

Krista Scibelli 111 Whalesback Road Red Hook, New York 12571

RE: SUB-SLAB DEPRESSURIZATION SYSTEM QUARTERLY MONITORING REPORT

520 Albany Avenue Kingston, Ulster County, New York

Dear Mrs. Scibelli:

DT Consulting Services, Inc. (DTCS) is pleased to present the attached Sub-slab Depressurization System (SSDS) Quarterly Monitoring Report 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 Senior Geologist / Project Manager

Cc: E. Moore, P.E./NYSDEC Region III

SUB-SLAB DEPRESSURIZATION SYSTEM (SSDS) QUARTERLY MONITORING REPORT

Pertaining to:

520 Albany Avenue Kingston, Ulster County, New York

Prepared for:

Krista Scibelli 111 Whalesback Road Red Hook, New York 12571

Prepared by:

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

Date: September 23, 2014

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1.0 INTRODUCTION/SITE INFORMATION

DT Consulting Services, Inc. (DTCS) was initially contracted by Krista Scibelli,

property owner of 520 Albany Avenue, Kingston, Ulster County, New York

(heretofore referenced as the site or subject property) to perform investigative-

remedial actions on-site to quantify subsurface conditions and remediate

previously detected soil contamination, respectively. 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 as a used car

service and sales outlet. According to facility representatives, no known

underground storage tanks have ever been employed on site. 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 is presently improved with a single-story

masonry construction office/retail building with approximately 2,579 square feet

of space with paved parking areas. Up until its recent closure (November 1,

2013), the property was utilized by Eastchester Auto for retail automobile sales

and service. In April 2014, the property was sold and is in the process of facility

upgrades.

The site is bounded by Albany Avenue and Quick Check Gasoline/Convenience

Store the north-northwest, single family residences directly to the south,

Wrentham Street and L. T. Begnal Motor Company 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 reportedly provided by the local

municipality.

2.0 SITE BACKGROUND/SSDS INSTALLATION

On February 4, 2013, DTCS was on-site to perform a subsurface investigation. 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 (NYSDEC) and Spill Number 12-15279 was generated for the site. Upon review of field data with the NYSDEC, the Department requested remediation of the petroleum contaminated soils documented during the February 2013 survey. Subsequent remediation (April 22, 2013) of the source materials has been 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 appears to have remediated this site impact. The Department concurred, and officially closed the spill number on September 4, 2013.

While conducting further investigation on the subject parcel in June 2013, it became apparent that historical dry cleaning operations have had an impact to 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, DTCS proposed and received approval from the Department for the installation of a SSDS within the open garage space of the above referenced site (DTCS, SSDS Pilot Study and Design Report, December 17, 2013). Designed to create a negative pressure field directly beneath the site structure, two extraction points were installed below the concrete floor slab on January 7 & 8, 2014 (see Figure 2 for locations). 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 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 1/4" 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.

3.0 SSDS OPERATION

As part of the approved work plan, DTCS recorded vacuum measurements, PID readings, and performed analysis of the vapor discharge monthly for the first quarter of operation. Collected system information was as follows):

Date	Vacuum - Blower Discharge	Vapor Concentrations
	(cfm)	(ppm)
January 23, 2014	110	115
March 7, 2014	121	1.2
April 25, 2014	115	65
August 8, 2014	112	12

During SSDS operation, the soil gas concentrations typically start at a maximum concentration and decrease asymptotically to steady state conditions. On account of the initial tetrachloroethylene or PERC soil gas concentration reported from the system effluent (20,000 μ g/m³ on January 23, 2014); the fresh air bleed valve was opened 25% to allow the introduction of diluted air into the system prior to discharge to the atmosphere. All system components were running within acceptable thresholds during this reporting period.

4.0 AIR QUALITY SAMPLING

Upon initiation of the SSDS on January 23, 2014, collection and analysis of the effluent vapor was performed by DTCS. In addition to effluent sampling, indoor air within the building (office and garage areas) was sampled 24 hours after the initial startup of the system or on January 24, 2014 and monthly thereafter (March and April 2014). At the conclusion of three monthly monitoring events (January, March and April 2014), the NYSDEC has approved a quarterly sampling frequency. All vapor sampling was collected for analysis employing a six liter SUMMA canister equipped with a laboratory-calibrated flow control device to facilitate the collection of the samples for a 2-hour sample duration time. During both purging and sampling, the flow rate was restricted to less than (<) 0.2 liters per minute and connected directly to the dedicated tubing. Samples collected in Summa canisters were certified clean by the laboratory and analyzed by using USEPA Method TO-15. A sample log sheet was maintained summarizing sample identification, date and time of sample collection, identity of samplers, sampling methods and devices, soil vapor purge volumes, volume of the soil vapor extracted, vacuum of canisters before and after the samples are collected, and chain of custody protocols. Samples submitted for laboratory analyses were denoted as follows:

Sample No. 001 = Office

Sample No. 002 = Garage

Sample No. 003 = SSDS Effluent

The complete laboratory packages may be found in Attachment A for your

review.

4.1 Findings

The site structure present on the subject facility has been closed and vacant since

November 1, 2013; however the site is currently performing improvements in

anticipation of opening a new retail establishment. Sampling performed during

this monitoring period has taken place during site construction activities. The

results of soil vapor sampling indicate that between nineteen and twenty-two

volatile organic compounds or VOCs are present within the soil gas samples

collected on-site during this monitoring period. A summary table of data for all

chemical analytical work performed on soil vapor is included in Table 1.

The VOC of concern, namely Tetrachloroethylene or PERC was reported at a

high concentration of 94 µg/m³ within the SSDS effluent air stream to a low of 16

µg/m³ within the historical garage area during the August 2014 monitoring

processes. The asymptotic decrease in targeted sample concentrations (as

reported during laboratory analysis) shows that the SSDS has been efficient at

remediating soil gas on-site (see Figure 3 for comparison graph).

PERC and to a lesser extent trichloroethylene or TCE, are the main contaminants

of concern. The estimated PERC removal rate was determined by multiplying a

conversion factor, the measured VOC concentration, the flow rate, and the

molecular weight (see equation). The actual removal rate is quantified by using

the following equation:

 $R_{act} = MWQC_{act}$

Where:

 R_{act} = actual rate of removal (lb/hr),

MW = contaminant molecular weight (lb/lb-mole),

Q = vapor flow rate (ft^3 /min),

 1.581×10^{-7} = conversion factor (lb-mole-min./ft³-ppmv-hr)C_{act}

= measured vapor concentration (ppmv).

Vapor Contaminant	Total Mass Removed To Date (pounds)
VOCs by USEPA TO-15	
Tetrachloroethylene	5.89

5.0 OPERATION, MAINTENANCE AND MONITORING

Historical evaluation of vapor data suggested that the SSDS effluent could potentially exceed the maximum permitted level for VOCs. As such; the fresh air bleed was utilized to dilute the airstream until the initial purge of the system is complete and discharge levels are within acceptable regulatory limitations.

As previously discussed, the accepted monitoring locations, frequency and analytical parameters are as follows (as approved by the NYSDEC):

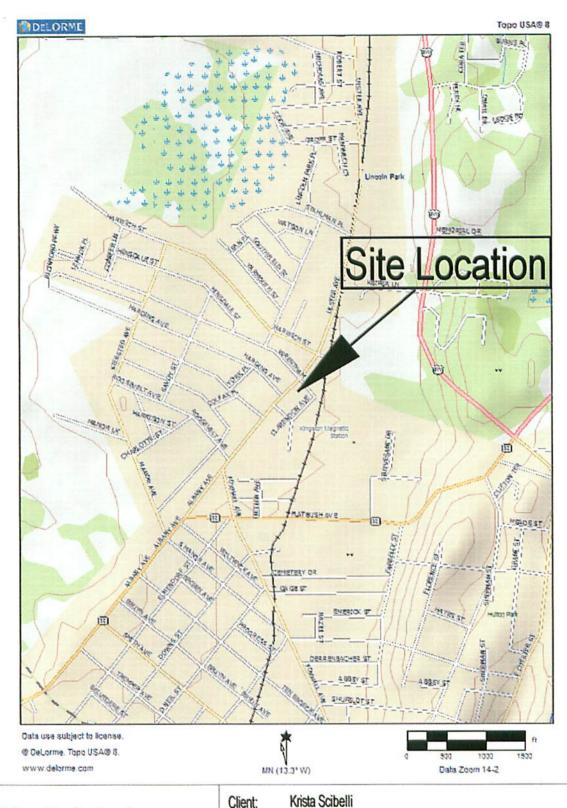
Continuing quarterly monitoring to determine when dilution and/or treatment of extracted vapor are no longer necessary, and to support adjustments to the SSDS extraction rate based upon contaminant concentrations. Monitoring would include sampling for VOCs using SUMMA type air canisters, as well as recording of PID readings and vacuum measurements of the system. Samples collected in Summa canisters will be certified clean by the laboratory and analyzed by using USEPA Method TO-15. At the completion of sampling and laboratory testing, a quarterly monitoring report will be submitted for review and approval.

6.0 LIMITATIONS

DTCS has prepared this assessment using reasonable efforts in each phase of its work to determine the extent of contamination 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

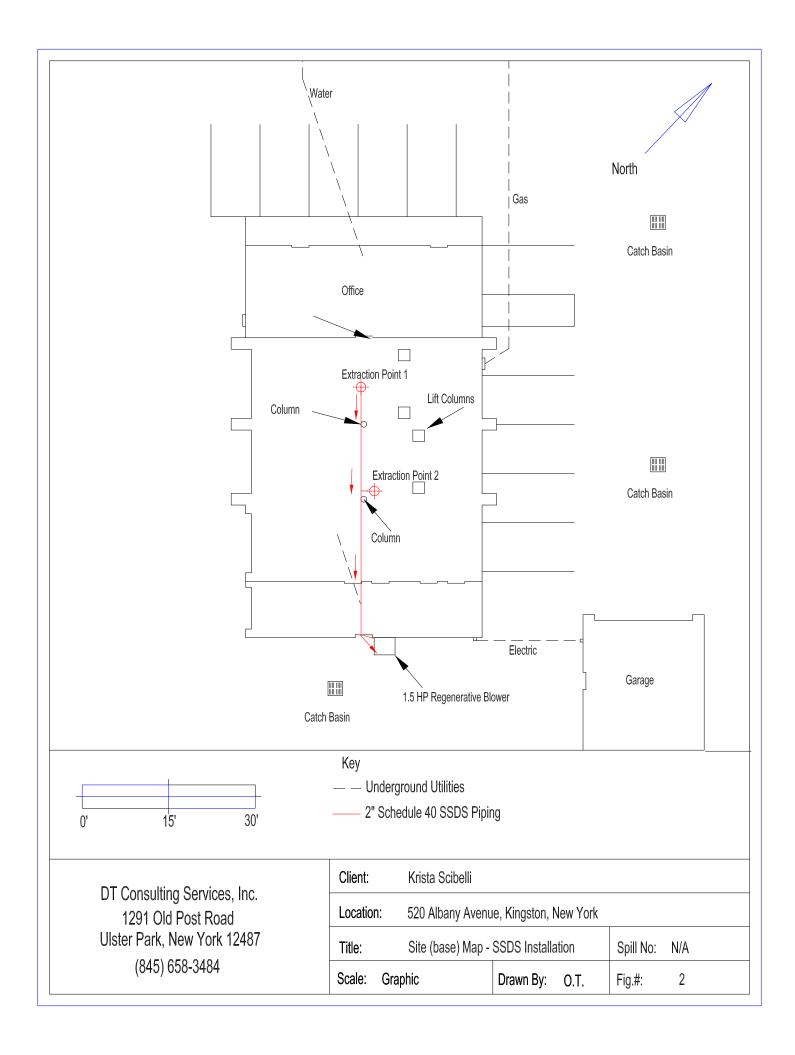


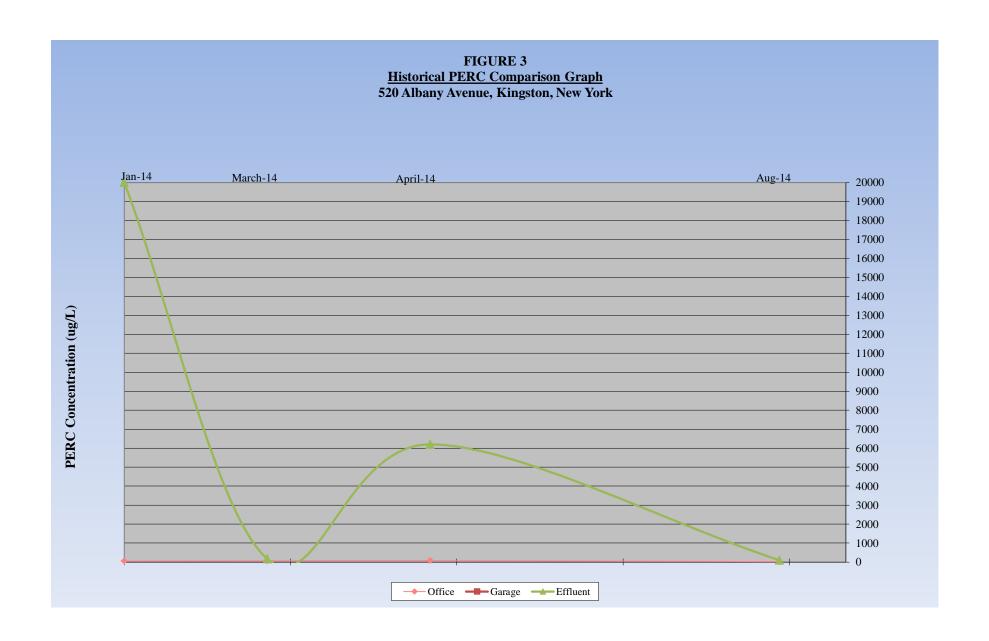
DT Consulting Services, Inc. 1291 Old Post Road Ulster Park, New York 12487 (845) 658-3484 Client: Krista Scibelli

Location: 520 Albany Avenue, Kingston, New York

Title: Site Location Map Spill No: N/A

Scale: Graphic Drawn By: O.T. Fig.#: 1





DT Consulting Services, Inc.

PERC Comparison



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TABLE 1:

SUMMARY OF TO-15 VOLATILES IN AIR SAMPLES

Page 1 of 1

Site: Krista Scibelli

Address: 520 Albany Avenue, Kingston, New York NYSDEC Spill Number N/A

Client: Krista Scibelli Address: 111 Whalesback Road Red Hook, New York 12571

Contractor: DT Consulting Services, Inc. Laboratory: York Analytical Laboratories, Inc. Stratford, CT 06615

	NYSDOH	USEPA	SSDS Effluent	Garage	Office
Sample ID:		TARGET SHALLOW GAS			
Location:	Air Guideline	CONCENTRATIONS(1)			
Depth (ft.):	Values		Indoor Ambient Air	Indoor Ambient Air	Indoor Ambient Air
Date:			8/8/2014	8/8/2014	8/8/2014
Lab Sample ID:			14H0333	14H0333	14H0333
Units: Analysis: EPA Method TO-15 Volatiles in A	μg/m³ ir		μg/m³	μg/m³	μg/m³
1,1,1-Trichloroethane	NS	22000	ND	ND	ND
1,1,2,2-Tetrachloroethane	NS	42	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	ND	ND	ND
1,1,2-Trichloroethane	NS	150	ND	ND	ND
1,1-Dichloroethane	NS	5000	ND	ND	ND
1,1-Dichloroethylene	NS	NS	ND	ND	ND
1,2,4-Trichlorobenzene	NS	2000	ND	ND	ND
1,2,4-Trimethylbenzene 1,2-Dibromoethane	NS NS	60 2	ND ND	1.6 ND	1.6 ND
1,2-Dichlorobenzene	NS NS	2000	ND ND	ND ND	ND ND
1,2-Dichloroethane	NS NS	94	ND ND	ND ND	ND ND
1,2-Dichloropropane	NS	40	ND	ND	ND
1,2-Dichlorotetrafluoroethane	NS	NS	ND	ND	ND
1,3,5-Trimethylbenzene	NS	60	ND	ND	0.49
1,3-Butadiene	NS	8.7	ND	ND	ND
1,3-Dichlorobenzene	NS	1100	ND	ND	ND
1,4-Dichlorobenzene	NS	8000	ND	ND	ND
1,4-Dioxane	NS	NS	ND	ND	ND
2-Butanone	NS	10000	2.9	2.3	2.4
2-Hexanone	NS	NS	ND	ND	ND
4-Methyl-2-pentanone	NS	800	0.61	ND	ND
Acetone	NS	3500	12	8.2	11
Benzene	NS	310	0.93	1.5	1.8
Benzyl chloride Bromodichloromethane	NS NS	50 140	ND ND	ND ND	ND ND
Bromoform	NS NS	2200	ND ND	ND ND	ND ND
Bromomethane	NS NS	NS	ND ND	ND ND	ND ND
Carbon Disulfide	NS	7000	ND	ND	ND ND
Carbon Tetrachloride	NS	160	0.44	0.46	0.5
Chlorobenzene	NS	600	ND	ND	ND
Chloroethane	NS	10000	ND	ND	ND
Chloroform	NS	110	ND	ND	ND
Chloromethane	NS	NS	1.1	1.1	1.2
cis-1,2-Dichloroethylene	NS	350	0.83	ND	ND
cis-1,3-Dichloropropylene	NS	200	ND	ND	ND
Cyclohexane	NS	NS	0.38	0.75	0.89
Dibromochloromethane	NS	100	ND	ND	ND
Dichlorodifluoromethane	NS NC	2000	1.6	2	2
Ethyl acetate Ethyl Benzene	NS NS	32000 2200	ND 0.69	ND 1.5	ND 1.7
Hexachlorobutadiene	NS NS	110	ND	ND	ND
Isopropanol	NS	NS	0.93	1.2	1.4
MTBE	NS	30000	ND	ND	ND
Methylene chloride	60	5200	1.1	1.2	3.1
n-Heptane	NS	NS	0.94	1.4	ND
n-Hexane	NS	2000	3.4	4.6	8.6
o-Xylene	NS	70000	0.74	1.8	2.1
p-&m- Xylenes	NS	70000	2.2	5.7	6.8
p-Ethyltoluene	NS	NS	ND	1.3	1.5
Propylene	NS	NS	ND	ND	ND
Styrene	NS 100	NS	ND	ND	ND
Tetrachloroethylene	100	810 NG	94	16 ND	20 ND
Tetrahydrofuran	NS	NS	0.94	ND	ND
Toluene	NS NC	4000	41 ND	33 ND	36 ND
trans-1,2-Dichloroethylene	NS NS	700 200	ND ND	ND ND	ND ND
tuono 1.2 Diablamannanylana		/00	ND	ND	ND
trans-1,3-Dichloropropylene					17
Trichloroethylene	5	220	1.1	ND	1.7 ND
					1.7 ND ND

Notes:

^{1.} Those analytes which exceeded NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006 are presented in bold type as such: 100.

2. USEPA OSWER Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance)

November 2002: Table 2A Target Shallow Soil Gas Concentration - Corresponding to Target Indoor Air Concentration Where the Soil Gas to Indoor Air Attenuation Factor = 0.1.

^{3.} ND = Non-detect. 4. NS = No Standard.



ATTACHMENTS



ATTACHMENT A



Technical Report

prepared for:

DT Consulting Services

1291 Old Post Road Ulster Park NY, 12487

Attention: Deborah Thompson

Report Date: 08/11/2014

Client Project ID: 520 Albany Ave. Kingston NY

York Project (SDG) No.: 14H0333

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 1 of 10

Report Date: 08/11/2014

Client Project ID: 520 Albany Ave. Kingston NY

York Project (SDG) No.: 14H0333

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 August 08, 2014 and listed below. 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 Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

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

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

York Sample ID	Client Sample ID	<u>Matrix</u>	Date Collected	Date Received
14H0333-01	Office	Indoor Ambient Air	08/08/2014	08/08/2014
14Н0333-02	Garage	Indoor Ambient Air	08/08/2014	08/08/2014
14Н0333-03	Effluent	Soil Vapor	08/08/2014	08/08/2014
1				

General Notes for York Project (SDG) No.: 14H0333

- 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.
- This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
 All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
- 6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
- 7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
- 8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:

Date: 08/11/2014

Benjamin Gulizia Laboratory Director





Client Sample ID: York Sample ID: 14H0333-01

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received14H0333520 Albany Ave. Kingston NYIndoor Ambient AirAugust 8, 20143:00 pm08/08/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared	by Method: EPA TO15 PREP										
CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m³	0.13	0.13	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
108-05-4	Vinyl acetate	ND		ug/m³	0.35	0.35	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
79-01-6	Trichloroethylene	ND		ug/m³	0.13	0.13	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.45	0.45	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.40	0.40	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
108-88-3	Toluene	36		ug/m³	0.38	0.38	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.29	0.29	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
127-18-4	Tetrachloroethylene	20		ug/m³	0.17	0.17	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
100-42-5	Styrene	ND		ug/m³	0.43	0.43	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
115-07-1	* Propylene	ND		ug/m³	0.17	0.17	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
622-96-8	* p-Ethyltoluene	1.5		ug/m³	0.49	0.49	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
179601-23-1	p- & m- Xylenes	6.8		ug/m³	0.87	0.87	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
95-47-6	o-Xylene	2.1		ug/m³	0.43	0.43	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
110-54-3	n-Hexane	8.6		ug/m³	0.35	0.35	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
142-82-5	n-Heptane	ND		ug/m³	0.41	0.41	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
75-09-2	Methylene chloride	3.1		ug/m³	0.69	0.69	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.36	0.36	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.41	0.41	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
67-63-0	Isopropanol	1.4		ug/m³	0.49	0.49	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.1	1.1	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
100-41-4	Ethyl Benzene	1.7		ug/m³	0.43	0.43	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
141-78-6	* Ethyl acetate	ND		ug/m³	0.72	0.72	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
110-82-7	Cyclohexane	0.89		ug/m³	0.34	0.34	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.45	0.45	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.40	0.40	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
74-87-3	Chloromethane	1.2		ug/m³	0.21	0.21	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
67-66-3	Chloroform	ND		ug/m³	0.49	0.49	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
75-00-3	Chloroethane	ND		ug/m³	0.26	0.26	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
56-23-5	Carbon tetrachloride	0.50		ug/m³	0.16	0.16	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
75-15-0	Carbon disulfide	ND		ug/m³	0.31	0.31	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
74-83-9	Bromomethane	ND		ug/m³	0.39	0.39	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
75-25-2	Bromoform	ND		ug/m³	1.0	1.0	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
75-27-4	Bromodichloromethane	ND		ug/m³	0.62	0.62	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
100-44-7	Benzyl chloride	ND		ug/m³	0.52	0.52	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
71-43-2	Benzene	1.8		ug/m³	0.32	0.32	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
67-64-1	Acetone	11	В	ug/m³	0.24	0.24	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
591-78-6	* 2-Hexanone	ND		ug/m³	0.82	0.82	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
78-93-3	2-Butanone	2.4		ug/m³	0.29	0.29	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD



Client Sample ID: York Sample ID: 14H0333-01

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received14H0333520 Albany Ave. Kingston NYIndoor Ambient AirAugust 8, 20143:00 pm08/08/2014

Volatile Organics, EPA TO15 Full List

Sample Prepared by Method: EPA TO15 PREP

<u>Log-in Notes:</u> <u>Sample Notes:</u>

106-46-7 541-73-1 106-99-0 108-67-8	1,4-Dioxane 1,4-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Butadiene	ND ND ND	ug/m³ ug/m³	0.36	0.36					
541-73-1 106-99-0 108-67-8	1,3-Dichlorobenzene 1,3-Butadiene	ND	ug/m³		0.50	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
106-99-0 108-67-8	1,3-Butadiene			0.60	0.60	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
108-67-8	,		ug/m³	0.60	0.60	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
	12771 1 1	ND	ug/m³	0.43	0.43	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
76-14-2	1,3,5-Trimethylbenzene	0.49	ug/m³	0.49	0.49	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
0 14 2	1,2-Dichlorotetrafluoroethane	ND	ug/m^3	0.70	0.70	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
78-87-5	1,2-Dichloropropane	ND	ug/m³	0.46	0.46	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
107-06-2	1,2-Dichloroethane	ND	ug/m^3	0.40	0.40	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
95-50-1	1,2-Dichlorobenzene	ND	ug/m^3	0.60	0.60	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
95-63-6	1,2,4-Trimethylbenzene	1.6	ug/m³	0.49	0.49	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
120-82-1	1,2,4-Trichlorobenzene	ND	ug/m³	0.74	0.74	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
75-35-4	1,1-Dichloroethylene	ND	ug/m³	0.40	0.40	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
75-34-3	1,1-Dichloroethane	ND	ug/m³	0.40	0.40	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
75-69-4	Trichlorofluoromethane (Freon 11)	1.7	ug/m³	0.56	0.56	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
79-00-5	1,1,2-Trichloroethane	ND	ug/m^3	0.55	0.55	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	ug/m³	0.77	0.77	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/m³	0.69	0.69	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
71-55-6	1,1,1-Trichloroethane	ND	ug/m³	0.55	0.55	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
75-71-8	Dichlorodifluoromethane	2.0	ug/m³	0.49	0.49	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
106-93-4	1,2-Dibromoethane	ND	ug/m³	0.77	0.77	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
124-48-1	Dibromochloromethane	ND	ug/m³	0.80	0.80	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
80-62-6	Methyl Methacrylate	ND	ug/m³	0.41	0.41	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
108-90-7	Chlorobenzene	ND	ug/m³	0.46	0.46	1	EPA TO-15	08/09/2014 07:42	08/09/2014 17:10	ALD
	Surrogate Recoveries	Result	Acc	eptance Ran	ge					
160-00-4	Surrogate: p-Bromofluorobenzene	93.4 %		72-118						

Sample Information

Client Sample ID: Garage York Sample ID: 14H0333-02

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received14H0333520 Albany Ave. Kingston NYIndoor Ambient AirAugust 8, 20143:00 pm08/08/2014

Volatile Organics, EPA TO15 Full List

Sample Prepared by Method: EPA TO15 PREP

<u>Log-in Notes:</u> <u>Sample Notes:</u>

CAS N	No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride		ND		ug/m³	0.13	0.13	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
108-05-4	Vinyl acetate		ND		ug/m³	0.36	0.36	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Page 4 of 10



Client Sample ID: Garage York Sample ID: 14H0333-02

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received14H0333520 Albany Ave. Kingston NYIndoor Ambient AirAugust 8, 2014 3:00 pm08/08/2014

Volatile Organics, EPA TO15 Full List

Sample Prepared by Method: EPA TO15 PREP

<u>Log-in Notes:</u> <u>Sample Notes:</u>

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	Trichloroethylene	ND		ug/m³	0.14	0.14	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.47	0.47	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.41	0.41	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
108-88-3	Toluene	33		ug/m³	0.39	0.39	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.30	0.30	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
127-18-4	Tetrachloroethylene	16		ug/m³	0.18	0.18	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
100-42-5	Styrene	ND		ug/m³	0.44	0.44	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
115-07-1	* Propylene	ND		ug/m³	0.18	0.18	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
622-96-8	* p-Ethyltoluene	1.3		ug/m³	0.51	0.51	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
179601-23-1	p- & m- Xylenes	5.7		ug/m³	0.90	0.90	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
95-47-6	o-Xylene	1.8		ug/m³	0.45	0.45	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
110-54-3	n-Hexane	4.6		ug/m³	0.36	0.36	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
142-82-5	n-Heptane	1.4		ug/m³	0.42	0.42	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
75-09-2	Methylene chloride	1.2		ug/m³	0.72	0.72	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.37	0.37	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.42	0.42	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
67-63-0	Isopropanol	1.2		ug/m³	0.51	0.51	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.1	1.1	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
100-41-4	Ethyl Benzene	1.5		ug/m³	0.45	0.45	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
141-78-6	* Ethyl acetate	ND		ug/m³	0.75	0.75	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
110-82-7	Cyclohexane	0.75		ug/m³	0.36	0.36	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.47	0.47	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.41	0.41	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
74-87-3	Chloromethane	1.1		ug/m³	0.21	0.21	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
67-66-3	Chloroform	ND		ug/m³	0.50	0.50	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
75-00-3	Chloroethane	ND		ug/m³	0.27	0.27	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
56-23-5	Carbon tetrachloride	0.46		ug/m³	0.16	0.16	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
75-15-0	Carbon disulfide	ND		ug/m³	0.32	0.32	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
74-83-9	Bromomethane	ND		ug/m³	0.40	0.40	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
75-25-2	Bromoform	ND		ug/m³	1.1	1.1	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
75-27-4	Bromodichloromethane	ND		ug/m³	0.64	0.64	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
100-44-7	Benzyl chloride	ND		ug/m³	0.54	0.54	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
71-43-2	Benzene	1.5		ug/m³	0.33	0.33	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
67-64-1	Acetone	8.2	В	ug/m³	0.25	0.25	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
591-78-6	* 2-Hexanone	ND		ug/m³	0.85	0.85	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
78-93-3	2-Butanone	2.3		ug/m³	0.30	0.30	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
123-91-1	1,4-Dioxane	ND		ug/m³	0.37	0.37	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.62	0.62	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.62	0.62	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD



Client Sample ID: Garage York Sample ID: 14H0333-02

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received14H0333520 Albany Ave. Kingston NYIndoor Ambient AirAugust 8, 2014 3:00 pm08/08/2014

Volatile Organics, EPA TO15 Full List

Sample Prepared by Method: EPA TO15 PREP

Log-in Notes: Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-99-0	1,3-Butadiene	ND		ug/m³	0.45	0.45	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.51	0.51	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.72	0.72	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.48	0.48	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.42	0.42	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.62	0.62	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
95-63-6	1,2,4-Trimethylbenzene	1.6		ug/m³	0.51	0.51	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.77	0.77	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
75-35-4	1,1-Dichloroethylene	ND		ug/m^3	0.41	0.41	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.42	0.42	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
75-69-4	Trichlorofluoromethane (Freon 11)	1.5		ug/m³	0.58	0.58	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.56	0.56	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.79	0.79	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.71	0.71	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.56	0.56	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
75-71-8	Dichlorodifluoromethane	2.0		ug/m³	0.51	0.51	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.79	0.79	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
124-48-1	Dibromochloromethane	ND		ug/m³	0.83	0.83	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
80-62-6	Methyl Methacrylate	ND		ug/m³	0.42	0.42	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
108-90-7	Chlorobenzene	ND		ug/m³	0.48	0.48	1.034	EPA TO-15	08/09/2014 07:42	08/09/2014 19:15	ALD
	Surrogate Recoveries	Result		Acc	eptance Ran	ge					
460-00-4	Surrogate: p-Bromofluorobenzene	92.5 %			72-118						

Sample Information

 Client Sample ID:
 Effluent
 York Sample ID:
 York Sample ID:
 14H0333-03

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 14H0333
 520 Albany Ave. Kingston NY
 Soil Vapor
 August 8, 2014
 3:00 pm
 08/08/2014

Volatile Organics, EPA TO15 Full List

Sample Prepared by Method: EPA TO15 PREP

<u>Log-in Notes:</u>	Sample Notes:
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CAS No	o. Parameter	Result	Flag Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND	ug/m³	0.13	0.13	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
108-05-4	Vinyl acetate	ND	ug/m³	0.35	0.35	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
79-01-6	Trichloroethylene	1.1	ug/m³	0.13	0.13	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND	ug/m³	0.45	0.45	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
156-60-5	trans-1,2-Dichloroethylene	ND	ug/m³	0.40	0.40	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD



Client Sample ID: York Sample ID: 14H0333-03

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received14H0333520 Albany Ave. Kingston NYSoil VaporAugust 8, 2014 3:00 pm08/08/2014

Volatile Organics, EPA TO15 Full List

Sample Prepared by Method: EPA TO15 PREP

Log-in Notes: Sample Notes:

CAS No.	. Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	Toluene	41		ug/m³	0.38	0.38	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
109-99-9	* Tetrahydrofuran	0.94		ug/m³	0.29	0.29	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
127-18-4	Tetrachloroethylene	94		ug/m³	0.17	0.17	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
100-42-5	Styrene	ND		ug/m³	0.43	0.43	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
115-07-1	* Propylene	ND		ug/m³	0.17	0.17	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.49	0.49	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
179601-23-1	p- & m- Xylenes	2.2		ug/m³	0.87	0.87	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
95-47-6	o-Xylene	0.74		ug/m³	0.43	0.43	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
110-54-3	n-Hexane	3.4		ug/m³	0.35	0.35	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
142-82-5	n-Heptane	0.94		ug/m³	0.41	0.41	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
75-09-2	Methylene chloride	1.1		ug/m³	0.69	0.69	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.36	0.36	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
108-10-1	4-Methyl-2-pentanone	0.61		ug/m^3	0.41	0.41	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
67-63-0	Isopropanol	0.93		ug/m^3	0.49	0.49	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.1	1.1	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
100-41-4	Ethyl Benzene	0.69		ug/m^3	0.43	0.43	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
141-78-6	* Ethyl acetate	ND		ug/m³	0.72	0.72	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
110-82-7	Cyclohexane	0.38		ug/m^3	0.34	0.34	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.45	0.45	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
156-59-2	cis-1,2-Dichloroethylene	0.83		ug/m^3	0.40	0.40	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
74-87-3	Chloromethane	1.1		ug/m³	0.21	0.21	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
67-66-3	Chloroform	ND		ug/m³	0.49	0.49	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
75-00-3	Chloroethane	ND		ug/m³	0.26	0.26	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
56-23-5	Carbon tetrachloride	0.44		ug/m³	0.16	0.16	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
75-15-0	Carbon disulfide	ND		ug/m³	0.31	0.31	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
74-83-9	Bromomethane	ND		ug/m³	0.39	0.39	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
75-25-2	Bromoform	ND		ug/m³	1.0	1.0	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
75-27-4	Bromodichloromethane	ND		ug/m³	0.62	0.62	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
100-44-7	Benzyl chloride	ND		ug/m³	0.52	0.52	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
71-43-2	Benzene	0.93		ug/m³	0.32	0.32	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
67-64-1	Acetone	12	В	ug/m^3	0.24	0.24	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
591-78-6	* 2-Hexanone	ND		ug/m³	0.82	0.82	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
78-93-3	2-Butanone	2.9		ug/m³	0.29	0.29	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
123-91-1	1,4-Dioxane	ND		ug/m³	0.36	0.36	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.60	0.60	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.60	0.60	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
106-99-0	1,3-Butadiene	ND		ug/m³	0.43	0.43	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.49	0.49	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.70	0.70	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD



Client Sample ID: York Sample ID: 14H0333-03

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received14H0333520 Albany Ave. Kingston NYSoil VaporAugust 8, 20143:00 pm08/08/2014

Volatile Organics, EPA TO15 Full List

Sample Prepared by Method: EPA TO15 PREP

Log-in Notes:	Sample Notes:

CAS No.	. Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.46	0.46	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.40	0.40	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.60	0.60	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.49	0.49	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.74	0.74	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.40	0.40	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.40	0.40	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
75-69-4	Trichlorofluoromethane (Freon 11)	1.4		ug/m³	0.56	0.56	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.55	0.55	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.77	0.77	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.69	0.69	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.55	0.55	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
75-71-8	Dichlorodifluoromethane	1.6		ug/m³	0.49	0.49	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.77	0.77	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
124-48-1	Dibromochloromethane	ND		ug/m³	0.80	0.80	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
80-62-6	Methyl Methacrylate	ND		ug/m³	0.41	0.41	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
108-90-7	Chlorobenzene	ND		ug/m³	0.46	0.46	1	EPA TO-15	08/09/2014 07:42	08/10/2014 08:00	ALD
	Surrogate Recoveries	Result		Acc	eptance Ran	ge					
460-00-4	Surrogate: p-Bromofluorobenzene	93.0 %			72-118						

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Notes and Definitions

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.		

В Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

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

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

RI. 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.

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.

METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a MDL. 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.

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 Reported to 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.

Not reported NR

LOD

RPD Relative Percent Difference

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

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. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is Non-Dir. 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.

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YORK

ANALYTICAL LABORATORIES, INC.

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

Field Chain-of-Custody Record - AIR

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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

York Project No. 1410333

signature binds you to York's Std. Terms & Conditions unless superseded by written contract.								
YOUR Information	Report	To:	Invoice To:	YOUR Pr		Turn-Around Time		
Company: DT Consulting Company: Sine C		Company	Some	520 AIDU	ry Ace	RUSH - Same Day	Summary Report	
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Phone No.				Purchase Order No.		RUSH - Three Day	NY ASP B/CLP Pkg	
Castad Parasa (Jahana 1)	A manufacture of the state of t			6 M		RUSH - Four Day	NJDEP Reduced	
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1) hereall Illians	111-	ii Matrix Codes	NYSDEC STARS List	Air VPH		(A) =Aubot restressor)		
Samples Collected/Authorized By	(Signature) Al-	INDOOR Ambient Air	Project Specific List by T	O-15 Helium		NJDEP low level		
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Webersh Thomps	n	Process Gas/Effluent	NJDEP Target List	Methane		Other		
Name (printed)	AS-	SOIL Vapor/Sub-Slab	CTDEP RCP Target List	OTHER		Other		
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