

**SUB-SLAB DEPRESSURIZATION SYSTEM (SSDS)
BI-ANNUAL MONITORING REPORT**

520 Albany Avenue
Kingston, Ulster County, New York

March 21, 2017

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

March 21, 2017

Krista Scibelli
111 Whalesback Road
Red Hook, New York 12571

RE: SUB-SLAB DEPRESSURIZATION SYSTEM
BI-ANNUAL 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) Bi-Annual 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

Deborah J. Thompson
Senior Geologist / Project Manager

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

DT CONSULTING SERVICES, INC.

SUB-SLAB DEPRESSURIZATION SYSTEM (SSDS)
BI-ANNUAL 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: March 21, 2017

DT CONSULTING SERVICES, INC.

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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. 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 was 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. Between April and August 2014 the property was sold, Site improvements/additions conducted, and the Site is now operating as Artcraft Camera & Digital and Fast Signs (Artcraft). Artcraft provides printing/photography services along with sign and graphic products.

The Site is bounded by Albany Avenue and Quick Check Gasoline/Convenience Store 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, 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 and the need for remediation, DTCS proposed and received approval from the Department for the installation of a Sub Slab Depressurization System or SSDS within the open garage space of the Subject Property (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

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

3.0 SSDS OPERATION

On account of continued satisfaction of reported SSDS effluent vapor concentrations when compared to regulatory standards, DTCS recommended temporarily suspending the operation of the SSDS on-Site and reinitiating the system on a quarterly basis to monitor for potential rebound of vapor phase contaminants. The NYSDEC agreed with this request upon their review of the DTCS Biannual SSDS Monitoring Report dated August 24, 2016. Site personnel subsequently suspended the SSDS on October 5, 2016. As per the request of the Department, vapor sampling would be performed in November 2016 and February 2017 to evaluate the need for continued SSDS operation.

4.0 AIR QUALITY SAMPLING – SYSTEM EFFLUENT

DTCS performed the quarterly SSDS effluent sampling events on December 1, 2016 and March 9, 2017 during normal operating hours. As part of Site monitoring procedures, DTCS records vacuum measurements and total VOCs during each sampling event. While the system was temporarily reinitiated, collected system information is as follows:

Date	Vacuum - Blower Discharge (cfm)	Vapor Concentrations (ppm) PID
January 23, 2014	110	115
March 7, 2014	121	1.2
April 25, 2014	115	65
August 8, 2014	112	12
November 22, 2014	111	1.4
March 13, 2015	112	1.2
June 18, 2015	112	2.1
October 3, 2015	110	0.5
January 17, 2016	111	0.4
April 25, 2016	112	0.2
July 30, 2016	110	0.3
December 1, 2016	109	0
March 9, 2017	110	0

All vapor sampling performed during this reporting period was collected employing a six liter SUMMA canister equipped with a laboratory-calibrated flow control device to facilitate the collection of the samples for a 1-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

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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. SSDS effluent samples submitted for laboratory analyses were denoted as follows:

December 1, 2016 & March 9, 2017

Sample No. 001 = SSDS Effluent

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

4.1 Findings

A summary table of data for all chemical analytical work is included as Table 1. Based upon the comparison of reported sample concentrations verses the USEPA OSWER Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance) November 2002 and the New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006; none of the reported compounds exceeded regulatory guidelines within the vapor collected from the system effluent. The VOC of concern, namely Tetrachloroethylene, was reported at a concentration of 14 and 8.2 $\mu\text{g}/\text{m}^3$ within the SSDS effluent air stream during the December 2016 and March 2017 monitoring events, respectively. This result is a significant reduction from a high of 20,000 $\mu\text{g}/\text{m}^3$ as recorded during the January 2014 effluent sampling period. The SSDS has been efficient at mitigating the intrusion of potential vapors and remediating residual contaminants as the PERC concentrations recorded in the effluent air have significantly decreased over time (see Figure 3 for comparison graph).

5.0 RECOMMENDATIONS

On account of continued satisfaction of reported SSDS effluent air concentrations when compared to regulatory standards and the lack of contaminant rebound during non-operation of the system, DTCS is recommending no further action at this time by the Department.

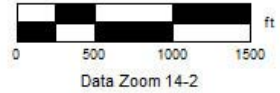
6.0 LIMITATIONS

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



Data use subject to license.
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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

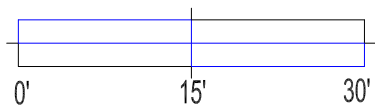
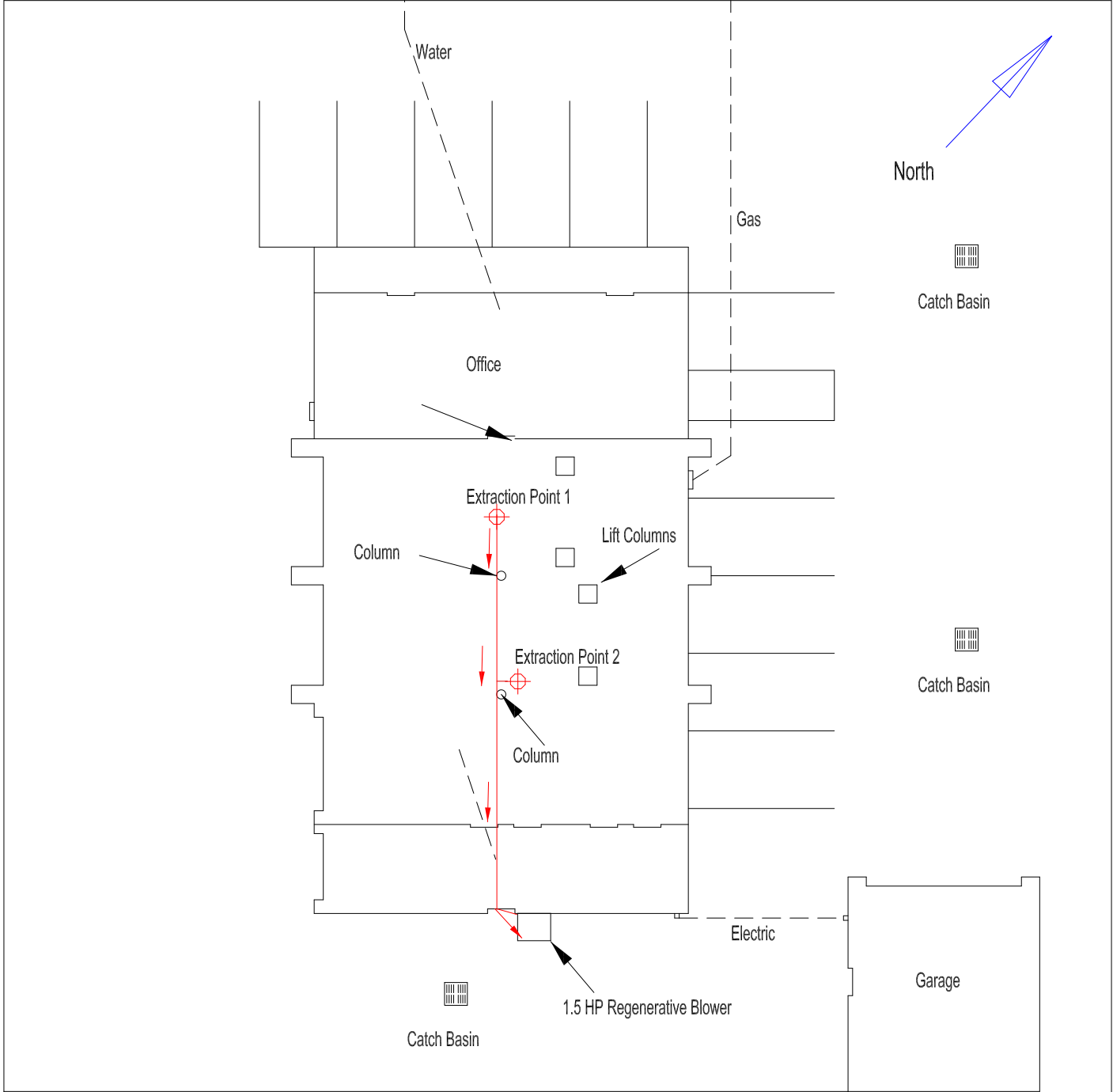
Title: Site Location Map

Spill No: NA

Scale: Graphic

Drawn By: O.T.

Fig.#: 1



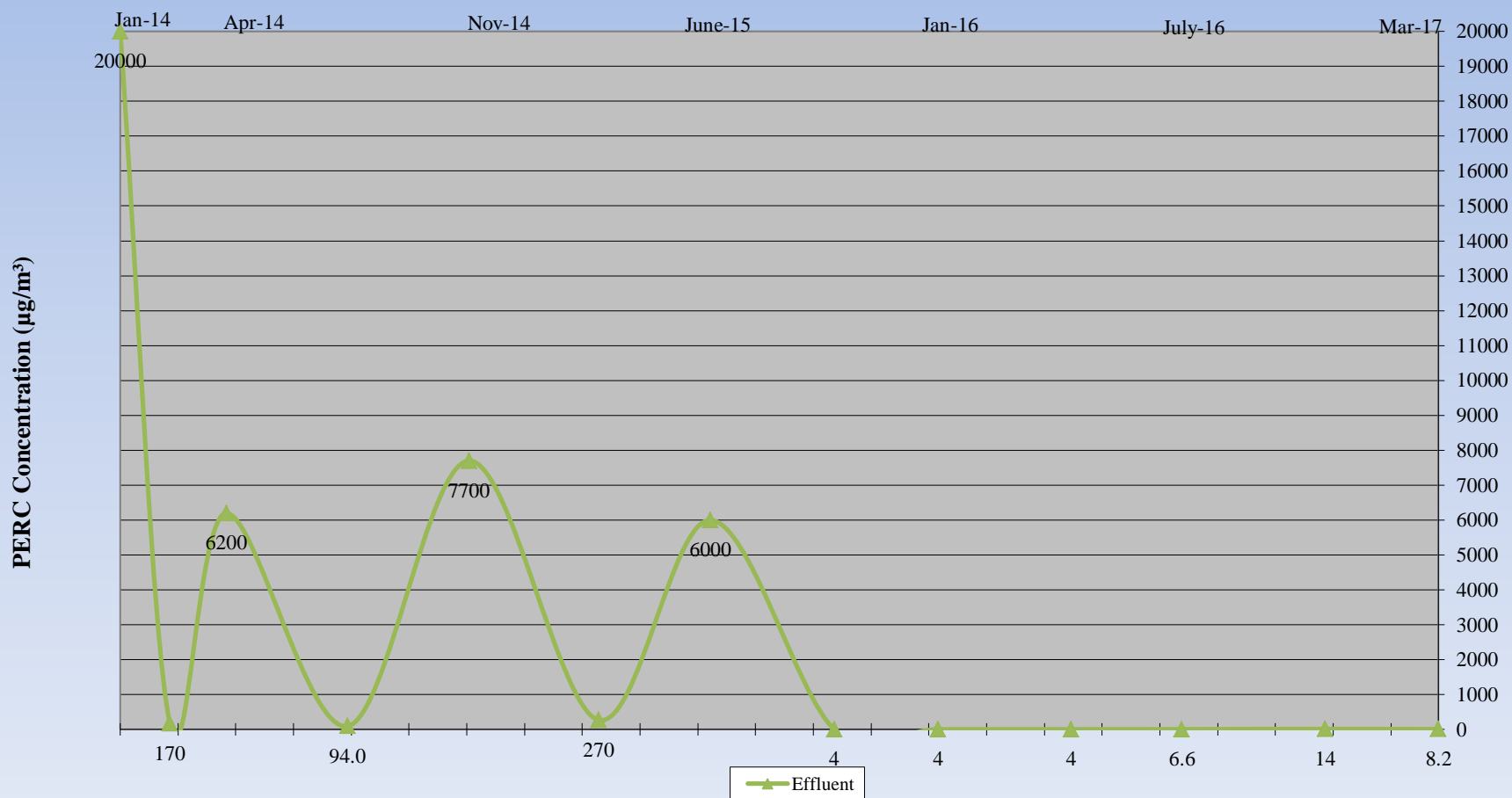
Key

- Underground Utilities
- 2" Schedule 40 SSDS Piping

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 (base) Map - SSDS Installation	Spill No: N/A
Scale: Graphic	Drawn By: O.T. Fig.#: 2

FIGURE 3
Historical PERC Comparison Graph - SSDS Effluent
520 Albany Avenue, Kingston, New York



TABLES

TABLE 1:

SUMMARY OF TO-15 VOLATILES IN AIR SAMPLES

Page 1 of 2

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

Sample ID: Location: Depth (ft.): Date: Lab Sample ID: Units:	NYSDOH Air Guideline Values	USEPA TARGET SHALLOW GAS CONCENTRATIONS(*)	SSDS Effluent Discharge 12/1/2016 16L0066 µg/m ³
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Analysis: EPA Method TO-15 Volatiles in Air

1,1,1-Trichloroethane	NS	22000	ND
1,1,2,2-Tetrachloroethane	NS	42	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	ND
1,1,2-Trichloroethane	NS	150	ND
1,1-Dichloroethane	NS	5000	ND
1,1-Dichloroethylene	NS	NS	ND
1,2,4-Trichlorobenzene	NS	2000	ND
1,2,4-Trimethylbenzene	NS	60	ND
1,2-Dibromoethane	NS	2	ND
1,2-Dichlorobenzene	NS	2000	ND
1,2-Dichloroethane	NS	94	ND
1,2-Dichloropropane	NS	40	ND
1,2-Dichlorotetrafluoroethane	NS	NS	ND
1,3,5-Trimethylbenzene	NS	60	ND
1,3-Butadiene	NS	8.7	ND
1,3-Dichlorobenzene	NS	1100	ND
1,4-Dichlorobenzene	NS	8000	ND
1,4-Dioxane	NS	NS	ND
2-Butanone	NS	10000	0.75
2-Hexanone	NS	NS	ND
4-Methyl-2-pentanone	NS	800	ND
Acetone	NS	3500	5
Benzene	NS	310	ND
Benzyl chloride	NS	50	ND
Bromodichloromethane	NS	140	ND
Bromoform	NS	2200	ND
Bromomethane	NS	NS	ND
Carbon Disulfide	NS	7000	1.3
Carbon Tetrachloride	NS	160	0.34
Chlorobenzene	NS	600	ND
Chloroethane	NS	10000	ND
Chloroform	NS	110	ND
Chloromethane	NS	NS	1.2
cis-1,2-Dichloroethylene	NS	350	ND
cis-1,3-Dichloropropylene	NS	200	ND
Cyclohexane	NS	NS	ND
Dibromochloromethane	NS	100	2.3
Dichlorodifluoromethane	NS	2000	ND
Ethyl acetate	NS	32000	ND
Ethyl Benzene	NS	2200	ND
Hexachlorobutadiene	NS	110	ND
Isopropanol	NS	NS	15
MTBE	NS	30000	ND
Methylene chloride	60	5200	ND
n-Heptane	NS	NS	ND
n-Hexane	NS	2000	ND
o-Xylene	NS	70000	ND
p-&m- Xylenes	NS	70000	ND
p-Ethyltoluene	NS	NS	ND
Propylene	NS	NS	ND
Styrene	NS	NS	ND
Tetrachloroethylene	100	810	14
Tetrahydrofuran	NS	NS	ND
Toluene	NS	4000	1.1
trans-1,2-Dichloroethylene	NS	700	ND
trans-1,3-Dichloropropylene	NS	200	ND
Trichloroethylene	5	220	ND
Trichlorofluoromethane	NS	7000	1.4
Vinyl acetate	NS	200	ND
Vinyl Chloride	NS	280	ND

Notes:

- 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**.
- 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.
- ND = Non-detect.
- NS = No Standard.

TABLE 1:

SUMMARY OF TO-15 VOLATILES IN AIR SAMPLES

Page 2 of 2

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

Sample ID:	NYSDOH	USEPA	SSDS Effluent
Location:	Air Guideline	TARGET SHALLOW GAS	Discharge
Depth (ft.):	Values	CONCENTRATIONS(1)	3/9/2017
Date:			17C0489
Lab Sample ID:			µg/m ³
Units:	µg/m ³		

Analysis: EPA Method TO-15 Volatiles in Air

1,1,1-Trichloroethane	NS	22000	ND
1,1,2,2-Tetrachloroethane	NS	42	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	ND
1,1,2-Trichloroethane	NS	150	ND
1,1-Dichloroethane	NS	5000	ND
1,1-Dichloroethylene	NS	NS	ND
1,2,4-Trichlorobenzene	NS	2000	ND
1,2,4-Trimethylbenzene	NS	60	ND
1,2-Dibromoethane	NS	2	ND
1,2-Dichlorobenzene	NS	2000	ND
1,2-Dichloroethane	NS	94	ND
1,2-Dichloropropane	NS	40	ND
1,2-Dichlorotetrafluoroethane	NS	NS	ND
1,3,5-Trimethylbenzene	NS	60	ND
1,3-Butadiene	NS	8.7	ND
1,3-Dichlorobenzene	NS	1100	ND
1,4-Dichlorobenzene	NS	8000	ND
1,4-Dioxane	NS	NS	ND
2-Butanone	NS	10000	0.73
2-Hexanone	NS	NS	ND
4-Methyl-2-pentanone	NS	800	ND
Acetone	NS	3500	6.3
Benzene	NS	310	0.67
Benzyl chloride	NS	50	ND
Bromodichloromethane	NS	140	ND
Bromoform	NS	2200	ND
Bromomethane	NS	NS	ND
Carbon Disulfide	NS	7000	1.5
Carbon Tetrachloride	NS	160	0.44
Chlorobenzene	NS	600	ND
Chloroethane	NS	10000	ND
Chloroform	NS	110	ND
Chloromethane	NS	NS	1.8
cis-1,2-Dichloroethylene	NS	350	ND
cis-1,3-Dichloropropylene	NS	200	ND
Cyclohexane	NS	NS	ND
Dibromochloromethane	NS	100	2.2
Dichlorodifluoromethane	NS	2000	ND
Ethyl acetate	NS	32000	ND
Ethyl Benzene	NS	2200	ND
Hexachlorobutadiene	NS	110	ND
Isopropanol	NS	NS	3
MTBE	NS	30000	ND
Methylene chloride	60	5200	ND
n-Heptane	NS	NS	ND
n-Hexane	NS	2000	2.7
o-Xylene	NS	70000	ND
p-&m- Xylenes	NS	70000	ND
p-Ethyltoluene	NS	NS	ND
Propylene	NS	NS	ND
Styrene	NS	NS	ND
Tetrachloroethylene	100	810	8.2
Tetrahydrofuran	NS	NS	ND
Toluene	NS	4000	2
trans-1,2-Dichloroethylene	NS	700	ND
trans-1,3-Dichloropropylene	NS	200	ND
Trichloroethylene	5	220	ND
Trichlorofluoromethane	NS	7000	1.3
Vinyl acetate	NS	200	ND
Vinyl Chloride	NS	280	ND

Notes:

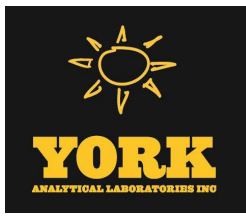
- Those analytes which exceeded NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006 are presented in bold type as such: **100**.
- USEPA OSWER Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion 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.
- ND = Non-detect.
- NS = No Standard.

DT CONSULTING SERVICES, INC.

ATTACHMENTS

DT CONSULTING SERVICES, INC.

ATTACHMENT A



Technical Report

prepared for:

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

Report Date: 12/09/2016
Client Project ID: 520 Albany Ave. Kingston, NY
York Project (SDG) No.: 16L0066

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
www.YORKLAB.com

STRATFORD, CT 06615
(203) 325-1371

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

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 12/09/2016
Client Project ID: 520 Albany Ave. Kingston, NY
York Project (SDG) No.: 16L0066

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 December 02, 2016 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.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
16L0066-01	SSDS Effluent	Vapor Extraction	12/01/2016	12/02/2016

General Notes for York Project (SDG) No.: 16L0066

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

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 12/09/2016





Sample Information

Client Sample ID: SSDS Effluent

York Sample ID: 16L0066-01

York Project (SDG) No.
16L0066

Client Project ID
520 Albany Ave. Kingston, NY

Matrix
Vapor Extraction

Collection Date/Time
December 1, 2016 3:00 pm

Date Received
12/02/2016

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m ³	1.2	1.2	1.806	EPA TO-15 Certifications:	12/06/2016 16:46	12/06/2016 21:57	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	0.99	0.99	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	1.2	1.2	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	1.4	1.4	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.99	0.99	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.73	0.73	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.72	0.72	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	1.3	1.3	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m ³	0.89	0.89	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m ³	1.4	1.4	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	1.1	1.1	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.73	0.73	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.83	0.83	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	1.3	1.3	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m ³	0.89	0.89	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
106-99-0	1,3-Butadiene	ND		ug/m ³	1.2	1.2	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	1.1	1.1	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.83	0.83	1.806	EPA TO-15 Certifications:	12/06/2016 16:46	12/06/2016 21:57	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	1.1	1.1	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
123-91-1	1,4-Dioxane	ND		ug/m ³	1.3	1.3	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
78-93-3	2-Butanone	0.75		ug/m ³	0.53	0.53	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS



Sample Information

Client Sample ID: SSDS Effluent

York Sample ID: 16L0066-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16L0066

520 Albany Ave. Kingston, NY

Vapor Extraction

December 1, 2016 3:00 pm

12/02/2016

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ug/m ³	1.5	1.5	1.806	EPA TO-15 Certifications:	12/06/2016 16:46	12/06/2016 21:57	LDS
107-05-1	3-Chloropropene	ND		ug/m ³	2.8	2.8	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	0.74	0.74	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
67-64-1	Acetone	5.0		ug/m ³	0.86	0.86	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
107-13-1	Acrylonitrile	ND		ug/m ³	0.39	0.39	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
71-43-2	Benzene	ND		ug/m ³	0.58	0.58	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
100-44-7	Benzyl chloride	ND		ug/m ³	0.93	0.93	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
75-27-4	Bromodichloromethane	ND		ug/m ³	1.2	1.2	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
75-25-2	Bromoform	ND		ug/m ³	1.9	1.9	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
74-83-9	Bromomethane	ND		ug/m ³	0.70	0.70	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
75-15-0	Carbon disulfide	1.3		ug/m ³	0.56	0.56	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
56-23-5	Carbon tetrachloride	0.34		ug/m ³	0.28	0.28	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
108-90-7	Chlorobenzene	ND		ug/m ³	0.83	0.83	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
75-00-3	Chloroethane	ND		ug/m ³	0.48	0.48	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
67-66-3	Chloroform	ND		ug/m ³	0.88	0.88	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
74-87-3	Chloromethane	1.2		ug/m ³	0.37	0.37	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.72	0.72	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.82	0.82	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
110-82-7	Cyclohexane	1.2		ug/m ³	0.62	0.62	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
124-48-1	Dibromochloromethane	ND		ug/m ³	1.5	1.5	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
75-71-8	Dichlorodifluoromethane	2.3		ug/m ³	0.89	0.89	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
141-78-6	* Ethyl acetate	ND		ug/m ³	1.3	1.3	1.806	EPA TO-15 Certifications:	12/06/2016 16:46	12/06/2016 21:57	LDS



Sample Information

Client Sample ID: SSDS Effluent

York Sample ID: 16L0066-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16L0066

520 Albany Ave. Kingston, NY

Vapor Extraction

December 1, 2016 3:00 pm

12/02/2016

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/m ³	0.78	0.78	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.9	1.9	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
67-63-0	Isopropanol	15		ug/m ³	0.89	0.89	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
80-62-6	Methyl Methacrylate	ND		ug/m ³	0.74	0.74	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.65	0.65	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
75-09-2	Methylene chloride	ND		ug/m ³	1.3	1.3	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
142-82-5	n-Heptane	ND		ug/m ³	0.74	0.74	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
110-54-3	n-Hexane	ND		ug/m ³	0.64	0.64	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
95-47-6	o-Xylene	ND		ug/m ³	0.78	0.78	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
179601-23-1	p- & m- Xylenes	ND		ug/m ³	1.6	1.6	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m ³	0.89	0.89	1.806	EPA TO-15 Certifications:	12/06/2016 16:46	12/06/2016 21:57	LDS
115-07-1	* Propylene	ND		ug/m ³	0.31	0.31	1.806	EPA TO-15 Certifications:	12/06/2016 16:46	12/06/2016 21:57	LDS
100-42-5	Styrene	ND		ug/m ³	0.77	0.77	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
127-18-4	Tetrachloroethylene	14		ug/m ³	0.31	0.31	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m ³	1.1	1.1	1.806	EPA TO-15 Certifications:	12/06/2016 16:46	12/06/2016 21:57	LDS
108-88-3	Toluene	1.1		ug/m ³	0.68	0.68	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.72	0.72	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.82	0.82	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
79-01-6	Trichloroethylene	ND		ug/m ³	0.24	0.24	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	1.4		ug/m ³	1.0	1.0	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
108-05-4	Vinyl acetate	ND		ug/m ³	0.64	0.64	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS
593-60-2	Vinyl bromide	ND		ug/m ³	0.79	0.79	1.806	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/06/2016 16:46	12/06/2016 21:57	LDS



Sample Information

Client Sample ID: SSDS Effluent

York Sample ID: **16L0066-01**

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16L0066

520 Albany Ave. Kingston, NY

Vapor Extraction

December 1, 2016 3:00 pm

12/02/2016

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	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
						LOQ					
75-01-4	Vinyl Chloride	ND		ug/m ³	0.46	0.46	1.806	EPA TO-15	12/06/2016 16:46	12/06/2016 21:57	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
	Surrogate Recoveries	Result			Acceptance Range						
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	98.0 %			72-118						





Notes and Definitions

- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

-
- * 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.

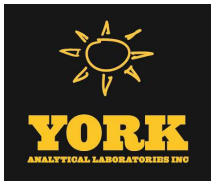
If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For 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

Page 1 of 1
 York Project No. 16L0066

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

YOUR INFORMATION Company: <u>DT Consulting Services Inc</u> Address: _____ Phone No. _____ Contact Person: <u>Deborah Thompson</u> E-Mail Address: _____	Report To: Company: <u>Same</u> Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____	Invoice To: Company: <u>Same</u> Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____	YOUR PROJECT ID <u>520 Albany Ave</u> <u>Kingston, NY</u> Purchase Order No. Samples from: CT <u> </u> NY <u> </u> NJ <u> </u>
Turn-Around Time RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day <input type="checkbox"/> Standard(5-7 Days) <input checked="" type="checkbox"/>		Report Type/Deliverables Summary Report <input checked="" type="checkbox"/> Summary w/ QA Summary _____ CT RCP Package _____ NY ASP A Package _____ NY ASP B/CLP Pkg _____ NJDEP Reduced _____ <i>Electronic Deliverables:</i> 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.

Additional Notes: Detection Limits Required ≤ 1 ug/m ³ _____ NYSDEC VI Limits <input checked="" type="checkbox"/> <small>(VI = vapor intrusion)</small> NJDEP low level _____ Routine Survey _____ Other _____	Special Instructions
---	---

Air Matrix Codes

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

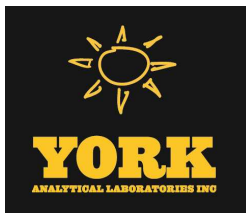
Samples Collected/Authorized By (Signature)
Deborah Thompson
 Name (printed)
Deborah Thompson

Please enter the following Field Data

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
SS05 Effluent	12/1/16	AE	27	1	17352	T5	70-15	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

Samples Relinquished By Deborah Thompson Date/Time 12-2-16
 Samples Received By Grace Date/Time 12-2-16
 Samples Relinquished By SPRINTS CCMPS Date/Time 12-02-16 20:34
 Samples Received in LAB by ZFO Date/Time 12-2-16 2034



Technical Report

prepared for:

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

Report Date: 03/17/2017
Client Project ID: 520 Albany Ave. Kingston, NY
York Project (SDG) No.: 17C0489

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
www.YORKLAB.com

STRATFORD, CT 06615
(203) 325-1371

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

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 03/17/2017
Client Project ID: 520 Albany Ave. Kingston, NY
York Project (SDG) No.: 17C0489

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 March 13, 2017 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.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
17C0489-01	SSDS Effluent	Vapor Extraction	03/09/2017	03/13/2017

General Notes for York Project (SDG) No.: 17C0489

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

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 03/17/2017





Sample Information

Client Sample ID: SSDS Effluent

York Sample ID: 17C0489-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17C0489

520 Albany Ave. Kingston, NY

Vapor Extraction

March 9, 2017 3:00 pm

03/13/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m ³	1.2	1.2	1.756	EPA TO-15 Certifications:	03/16/2017 17:45	03/16/2017 17:45	RB
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	0.96	0.96	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	1.2	1.2	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	1.3	1.3	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.96	0.96	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.71	0.71	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.70	0.70	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	1.3	1.3	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m ³	0.86	0.86	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
106-93-4	1,2-Dibromoethane	ND		ug/m ³	1.3	1.3	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	1.1	1.1	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.71	0.71	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.81	0.81	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	1.2	1.2	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m ³	0.86	0.86	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
106-99-0	1,3-Butadiene	ND		ug/m ³	1.2	1.2	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	1.1	1.1	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.81	0.81	1.756	EPA TO-15 Certifications:	03/16/2017 17:45	03/16/2017 17:45	RB
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	1.1	1.1	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
123-91-1	1,4-Dioxane	ND		ug/m ³	1.3	1.3	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
78-93-3	2-Butanone	0.73		ug/m ³	0.52	0.52	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB



Sample Information

Client Sample ID: SSDS Effluent

York Sample ID: 17C0489-01

York Project (SDG) No.

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17C0489

520 Albany Ave. Kingston, NY

Vapor Extraction

March 9, 2017 3:00 pm

03/13/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ug/m ³	1.4	1.4	1.756	EPA TO-15 Certifications:	03/16/2017 17:45	03/16/2017 17:45	RB
107-05-1	3-Chloropropene	ND		ug/m ³	2.7	2.7	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	0.72	0.72	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
67-64-1	Acetone	6.3		ug/m ³	0.83	0.83	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
107-13-1	Acrylonitrile	ND		ug/m ³	0.38	0.38	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
71-43-2	Benzene	0.67		ug/m ³	0.56	0.56	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
100-44-7	Benzyl chloride	ND		ug/m ³	0.91	0.91	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
75-27-4	Bromodichloromethane	ND		ug/m ³	1.2	1.2	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
75-25-2	Bromoform	ND		ug/m ³	1.8	1.8	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
74-83-9	Bromomethane	ND		ug/m ³	0.68	0.68	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
75-15-0	Carbon disulfide	1.5		ug/m ³	0.55	0.55	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
56-23-5	Carbon tetrachloride	0.44		ug/m ³	0.28	0.28	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
108-90-7	Chlorobenzene	ND		ug/m ³	0.81	0.81	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
75-00-3	Chloroethane	ND		ug/m ³	0.46	0.46	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
67-66-3	Chloroform	ND		ug/m ³	0.86	0.86	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
74-87-3	Chloromethane	1.8		ug/m ³	0.36	0.36	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.70	0.70	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.80	0.80	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
110-82-7	Cyclohexane	ND		ug/m ³	0.60	0.60	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
124-48-1	Dibromochloromethane	ND		ug/m ³	1.5	1.5	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
75-71-8	Dichlorodifluoromethane	2.2		ug/m ³	0.87	0.87	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
141-78-6	* Ethyl acetate	ND		ug/m ³	1.3	1.3	1.756	EPA TO-15 Certifications:	03/16/2017 17:45	03/16/2017 17:45	RB



Sample Information

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York Sample ID: 17C0489-01

York Project (SDG) No.

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Matrix

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17C0489

520 Albany Ave. Kingston, NY

Vapor Extraction

March 9, 2017 3:00 pm

03/13/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/m ³	0.76	0.76	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.9	1.9	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
67-63-0	Isopropanol	3.0		ug/m ³	0.86	0.86	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
80-62-6	Methyl Methacrylate	ND		ug/m ³	0.72	0.72	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.63	0.63	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
75-09-2	Methylene chloride	ND		ug/m ³	1.2	1.2	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
142-82-5	n-Heptane	ND		ug/m ³	0.72	0.72	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
110-54-3	n-Hexane	2.7		ug/m ³	0.62	0.62	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
95-47-6	o-Xylene	ND		ug/m ³	0.76	0.76	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
179601-23-1	p- & m- Xylenes	ND		ug/m ³	1.5	1.5	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
622-96-8	* p-Ethyltoluene	ND		ug/m ³	0.86	0.86	1.756	EPA TO-15 Certifications:	03/16/2017 17:45	03/16/2017 17:45	RB
115-07-1	* Propylene	ND		ug/m ³	0.30	0.30	1.756	EPA TO-15 Certifications:	03/16/2017 17:45	03/16/2017 17:45	RB
100-42-5	Styrene	ND		ug/m ³	0.75	0.75	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
127-18-4	Tetrachloroethylene	8.2		ug/m ³	0.30	0.30	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
109-99-9	* Tetrahydrofuran	ND		ug/m ³	1.0	1.0	1.756	EPA TO-15 Certifications:	03/16/2017 17:45	03/16/2017 17:45	RB
108-88-3	Toluene	2.0		ug/m ³	0.66	0.66	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.70	0.70	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.80	0.80	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
79-01-6	Trichloroethylene	ND		ug/m ³	0.24	0.24	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
75-69-4	Trichlorofluoromethane (Freon 11)	1.3		ug/m ³	0.99	0.99	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
108-05-4	Vinyl acetate	ND		ug/m ³	0.62	0.62	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB
593-60-2	Vinyl bromide	ND		ug/m ³	0.77	0.77	1.756	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	03/16/2017 17:45	03/16/2017 17:45	RB



Sample Information

Client Sample ID: SSDS Effluent

York Sample ID: **17C0489-01**

York Project (SDG) No.
17C0489

Client Project ID
520 Albany Ave. Kingston, NY

Matrix
Vapor Extraction

Collection Date/Time
March 9, 2017 3:00 pm

Date Received
03/13/2017

Volatile Organics, EPA TO15 Full List

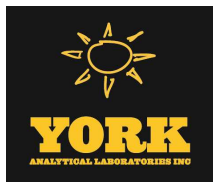
Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
						LOQ					
75-01-4	Vinyl Chloride	ND		ug/m ³	0.45	0.45	1.756	EPA TO-15	03/16/2017 17:45	03/16/2017 17:45	RB
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
	Surrogate Recoveries	Result			Acceptance Range						
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	96.3 %			72-118						





Notes and Definitions

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

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

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

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

Certification for pH is no longer offered by NYDOH ELAP.

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

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



YORK
ANALYTICAL LABORATORIES INC.

Field Chain-of-Custody Record - AIR

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York Project No. 17C0563

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

YOUR Information Company: <u>DI Consulting Services Inc</u> Address: _____ Phone No. _____ Contact Person: <u>Deborah Thompson</u> E-Mail Address: _____	Report To: Company: <u>Some</u> Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____	Invoice To: Company: <u>Some</u> Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____	YOUR Project ID <u>520 Albany Ave Kingston, NY</u> Purchase Order No. Samples from: CT ___ NY <u>X</u> NJ	Turn-Around Time RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day <input type="checkbox"/> Standard(5-7 Days) <input checked="" type="checkbox"/>	Report Type/Deliverables Summary Report <input checked="" type="checkbox"/> Summary w/ QA Summary <input type="checkbox"/> CT RCP Package <input type="checkbox"/> NY ASP A Package <input type="checkbox"/> NY ASP B/CLP Pkg <input type="checkbox"/> NJDEP Reduced <input type="checkbox"/> Electronic Deliverables: EDD (Specify Type) _____ Standard Excel _____ Regulatory Comparison Excel _____
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Additional Notes:
Print Clearly and Legibly. All information must be complete. Samples will NOT be logged in and the turn-around time islock will not begin until any questions by York are resolved.

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

Detection Limits Required
≤ 1 ug/m³
NYSDEC VI Limits _____
(VI = vapor intrusion)
NJDEP low level _____
Routine Survey _____
Other _____

Please enter the following Field Data

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
SDS Effluent	3/9/17	AE	30	2	16973	Fl6	TO-15	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 6 Liter canister Tedlar Bag 6 Liter canister Tedlar Bag

Comments

Deborah Thompson 3/9/17
Samples Relinquished By _____ Date/Time _____
Samples Received By Deborah Thompson 3/10/17 6:15am
Date/Time _____
Samples Received in LAB by _____ Date/Time _____