



**Sub-Slab Depressurization System
Quarterly Monitoring Report
Elks Plaza, LLC
157-189 West Merrick Road
Freeport, NY
NYSDEC Site No.: 130193**

October 2012

Prepared for:

**Elks Plaza, LLC
c/o Galaxy Management, Inc.
28 Campbell Drive
Dix Hills, NY 11746-7902**

Prepared by:

**CA RICH CONSULTANTS, INC.
17 Dupont Street
Plainview, NY 11803-1614**



e-mail: eweinstock@carichinc.com

October 23, 2012

NYSDEC

Division of Hazardous Waste Remediation
625 Broadway
Albany, New York 12207-2942

Attention: Melissa Sweet, Project Manager

Re: **Sub-Slab Depressurization System
Quarterly Monitoring Report
Elks Plaza, LLC
157-189 West Merrick Road
Freeport, NY
NYSDEC Site No.: 130193**

Dear Ms. Sweet:

CA RICH Consultants, Inc. (CA RICH) is pleased to present this Sub-Slab Depressurization (SSD) System, Quarterly Monitoring Report for Elks Plaza, LLC at 157-189 West Merrick Road Freeport, NY. A Site Plan with Property Boundaries is included as Figure 1.

Introduction

The property has been the subject of a series of investigations that have included testing and analysis of the groundwater, soil, soil vapor and indoor air at the property. The results of these investigations are summarized in the following documents (Refs. 1 and 2).

- Site Characterization Report, Elks Plaza LLC March 2010
- Supplemental Soil Vapor Investigation, Elks Plaza LLC June 2010

Based on the results of those investigations elevated levels of perchloroethene (PCE) were identified below the units 179 and 181. Unit 181 was the former location of a dry cleaning tenant. This space is currently occupied by a Laundromat. An SSD was designed, installed and operated to address these subsurface vapors. Initially, the exhaust of the SSD system will be treated using vapor-phase carbon canisters. As the operation of the system continues and the levels of PCE and its degradation products in the raw soil vapor before carbon treatment decrease below NYSDEC and NYSDOH emission guidance, the system will be operated without carbon treatment. A summary of the design for the SSD system were included in the following references (Refs. 3 and 4).

- Pilot Test Report and Interim Remedial Measures Work Plan January 2012
- Revised Pilot Test Report and Interim Remedial Measures Work Plan Addendum #1 March 2012

One more
Quarterly Report
to indicate
consistent
results?

Description of Remedy

The remedy included in this IRM included a SSD system. The system consists of the four vents installed for the pilot test which were converted into permanent sub-slab depressurization vents. Four-inch diameter sheet metal ducts were extended and connected above the existing Laundromat. These were, in turn, connected to a six-inch diameter riser. Initially, the four-inch diameter ducts transitioned to four-inch diameter PVC pipe which was extend along the roof to the stair well at unit 175. The four-inch pipe was extended down through the roof and into the stair well. It was connected to a moisture knock drum and then to a Fuji Model VFC40 1 HP regenerative blower. The extracted soil vapor is then passed through two 55-gallon vapor phase carbon units. The treated vapor is then connected to a four-inch pipe that extends through the roof of the stair well for a height of six feet above the roof. The blower was connected to the electric panel of the shopping center.

A magnehelic-type vacuum gauge equipped with a red LED low-vacuum indicator light was installed on the vertical riser closest to the office of the Laundromat. The LED light is connected to the power supply of the shopping center. The tenant was instructed to call CA RICH for service if the red indicator light is illuminated.

The Annual Cavity Impact (Cc) will be recalculated after each round of quarterly monitoring round and compared to the AGC standard. Once the untreated soil vapor is less than the AGC standard, we will petition the NYSDEC to turn off the Fuji Blower and replace it with a Fantech fan model HP220. The four-inch diameter PVC pipe will be removed and the Fantech fan will be connected directly to the six-inch riser set above the roof.

Operations, Maintenance and Monitoring the SSD System

The site was visited weekly for the first month, monthly for the first three months and then quarterly thereafter. During each visit, the moisture knockout drum was drained and a PID was used to check the VOCs before the carbon units, between the two carbon units and after the carbon units. SUMMA canisters were used to collect samples of the untreated and treated soil vapor for laboratory analysis after one month and then on a quarterly basis. These results are submitted in this report as Table 1 and in Appendix A.

Maintenance Log

<u>Dates</u>	<u>Activity</u>	<u>Comments</u>
June 21, 2012	System Start-Up	Equipment working properly
June 27, 2012	Weekly Check	Elevated PID levels between drums Blower turned off
July 3, 2012	Weekly Check	Replaced first carbon drum Blower turned on
July 13, 2012	Monthly Check	Collected SUMMA Canisters Equipment working properly
July 17, 2012	Weekly Check	Equipment working properly
July 26, 2012	Weekly Check	Equipment working properly
August 28, 2012	Monthly Check	Equipment working properly

Maintenance Log (Continued)

September 20, 2012 Quarterly Check

Collected SUMMA Canisters
Equipment working properly

Emission Calculations

Using the results of the raw soil vapor collected in the SUMMA Canisters, emission calculations were performed for the July 13th and September 20th sample results to determine if the regenerative blower could be replaced with a SSD fan without carbon treatment. These are presented below.

Data for July 13, 2012:

Concentration = 4,050 ug/m³ of tetrachloroethene
Rate = 50 CFM at a building height of 16 feet
 h_b = Height of building in feet
Q = Hourly emission rate
Qa = Annual emission rate

Formula:

$$C_c = \frac{1.72 \times Qa}{(h_b)^2}$$

$$C_{CST} = \frac{90400 \times Q}{(h_b)^2}$$

$$Q = 4,050 \times 50 \text{ ft}^3/\text{min.} \times 1\text{gram}/1.0 \times 10^6 \text{ ug} \times 1 \text{ lb.}/436 \text{ grams} \times 60 \text{ min.}/\text{hr.} \times 1 \text{ m}^3/35 \text{ ft}^3 = 8.0 \times 10^{-4} \text{ lb.}/\text{hr.}$$

$$Qa = 8.0 \times 10^{-4} \text{ lb.}/\text{hr.} \times 24 \text{ hr.}/\text{day} \times 360 \text{ days}/\text{yr.} = 7.0 \text{ lb.}/\text{yr.}$$

$$C_c = \frac{1.72 \times 7.0 \text{ lb.}/\text{yr}}{(16)^2} = 0.05 \text{ ug}/\text{m}^3 \quad \text{less than } 1.0 \text{ ug}/\text{m}^3$$

$$C_{CST} = \frac{90400 \times 8.0 \times 10^{-4} \text{ lb.}/\text{hr.}}{(16)^2} = 0.3 \text{ ug}/\text{m}^3 \quad \text{less than } 1.0 \times 10^3 \text{ ug}/\text{m}^3$$

Data for September 20, 2012:

Concentration = 3,380 ug/m³ of tetrachloroethene
 Rate = 50 CFM at a building height of 16
 h_b = Height of building in feet
 Q = Hourly emission rate
 Q_a = Annual emission rate

Formula:

$$C_c = \frac{1.72 \times Q_a}{(h_b)^2}$$

$$C_{CST} = \frac{90400 \times Q}{(h_b)^2}$$

$$Q = 3,380 \text{ ug/m}^3 \times 50 \text{ ft}^3/\text{min.} \times 1 \text{ gram}/1.0 \times 10^6 \text{ ug} \times 1 \text{ lb.}/436 \text{ grams} \times 60 \text{ min.}/\text{hr.} \times 1 \text{ m}^3/35 \text{ ft}^3 = 6.6 \times 10^{-4} \text{ lb.}/\text{hr.}$$

$$Q_a = 6.6 \times 10^{-4} \text{ lb.}/\text{hr.} \times 24 \text{ hr.}/\text{day} \times 365 \text{ days}/\text{yr.} = 5.8 \text{ lb.}/\text{yr.}$$

$$C_c = \frac{1.72 \times 5.8 \text{ lb.}/\text{yr}}{(16)^2} = 0.04 \text{ ug/m}^3 \quad \text{less than } 1.0 \text{ ug/m}^3$$

$$C_{CST} = \frac{90400 \times 6.6 \times 10^{-4} \text{ lb.}/\text{hr.}}{(16)^2} = 0.23 \text{ ug/m}^3 \quad \text{less than } 1.0 \times 10^3 \text{ ug/m}^3$$

Conclusions

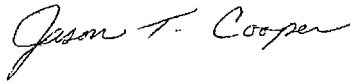
- The SSD system has been working properly during the past quarter of operation.
- One carbon drum was replaced during this reporting period, a copy of the disposal manifest is attached.
- There was no water in the moisture knock-out drum during the past quarter.
- The level of PCE in the raw soil vapor decreased from an initial concentration of 210,335 ug/m³ to 4,050 ug/m³ after one month and 3,380 ug/m³ after three months of operation.
- Based on the laboratory data collected during the past quarter, the Annual Cavity Impact (C_c) was recalculated after each round of monitoring and compared to the AGC standard. The calculations after one and three months of operation were both below the AGC standard and a decreasing trend was established. As such, we request permission to disconnect the regenerative blower and carbon units and replace it with a Fantech model HP220 fan as outlined in the IRM Work Plan.

Are you sure you
 want to take this out?
 I'm acting on a
 default SVE system
 - solids - 1000 is min rate
 - ~~Heard's schedule~~

If you have any questions regarding this plan, please do not hesitate to call our office.

Respectfully,

CA RICH CONSULTANTS, INC.



Jason T. Cooper
Project Environmental Scientist



Stephen J. Osmundsen, P.E.
Senior Engineer



Eric A. Weinstock
Vice President

Attachments

cc: George Tsilogiannis
Tsil45@yahoo.com

Lois Reisman
apimanagement@optonline.net

Suzanne Avena
savena@garfunkelwild.com

References

1. Preferred Environmental Services March 2010, Site Characterization Report, Elks Plaza LLC - Site # 130193, 157 -189 West Merrick Road, Freeport, NY.
2. Preferred Environmental Services June 2010, Supplemental Soil Vapor Investigation, Elks Plaza LLC - Site # 130193, 157 -189 West Merrick Road, Freeport, NY.
3. CA RICH, January 2012, Pilot Test Report and Interim Remedial Measures Work Plan, Elks Plaza, LLC, 157-189 West Merrick Road, Freeport, NY
4. CA RICH, March 2012, Revised Pilot Test Report and Interim Remedial Measures Work Plan Addendum #1, Elks Plaza, LLC, 157-189 West Merrick Road, Freeport, NY

Figures

1. Site Plan with Property Boundaries
2. Typical Soil Vapor Vent
3. Layout of Sub Slab Vents
4. Schematic of the System

Tables

1. PID and Laboratory Data

Appendices

- A. Laboratory Data
- B. Disposal Manifests

Figures



Adapted from Google Earth 2012



RICH
ENVIRONMENTAL SPECIALISTS

CA RICH CONSULTANTS, INC.
17 Dupont Street,
Plainview, NY 11803

TITLE:

**SITE PLAN WITH PROPERTY
BOUNDARIES**

DATE:

6/8/2012

SCALE:

Not to scale

FIGURE:

1

DRAWING:

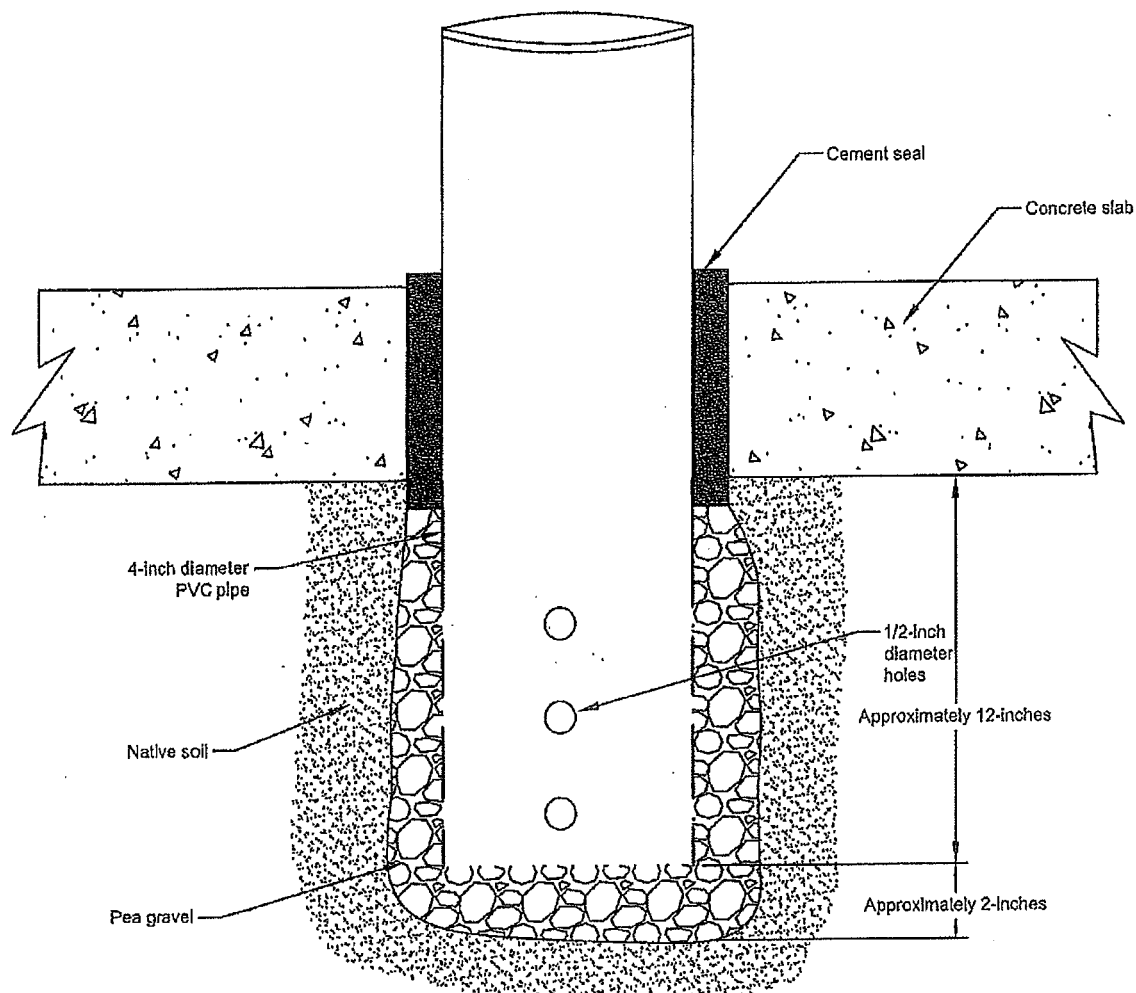
**Elks Plaza, LLC
157-189 W. Merrick Road
Freeport, New York**

DRAWN BY:

JTC

APPR. BY:

EAW

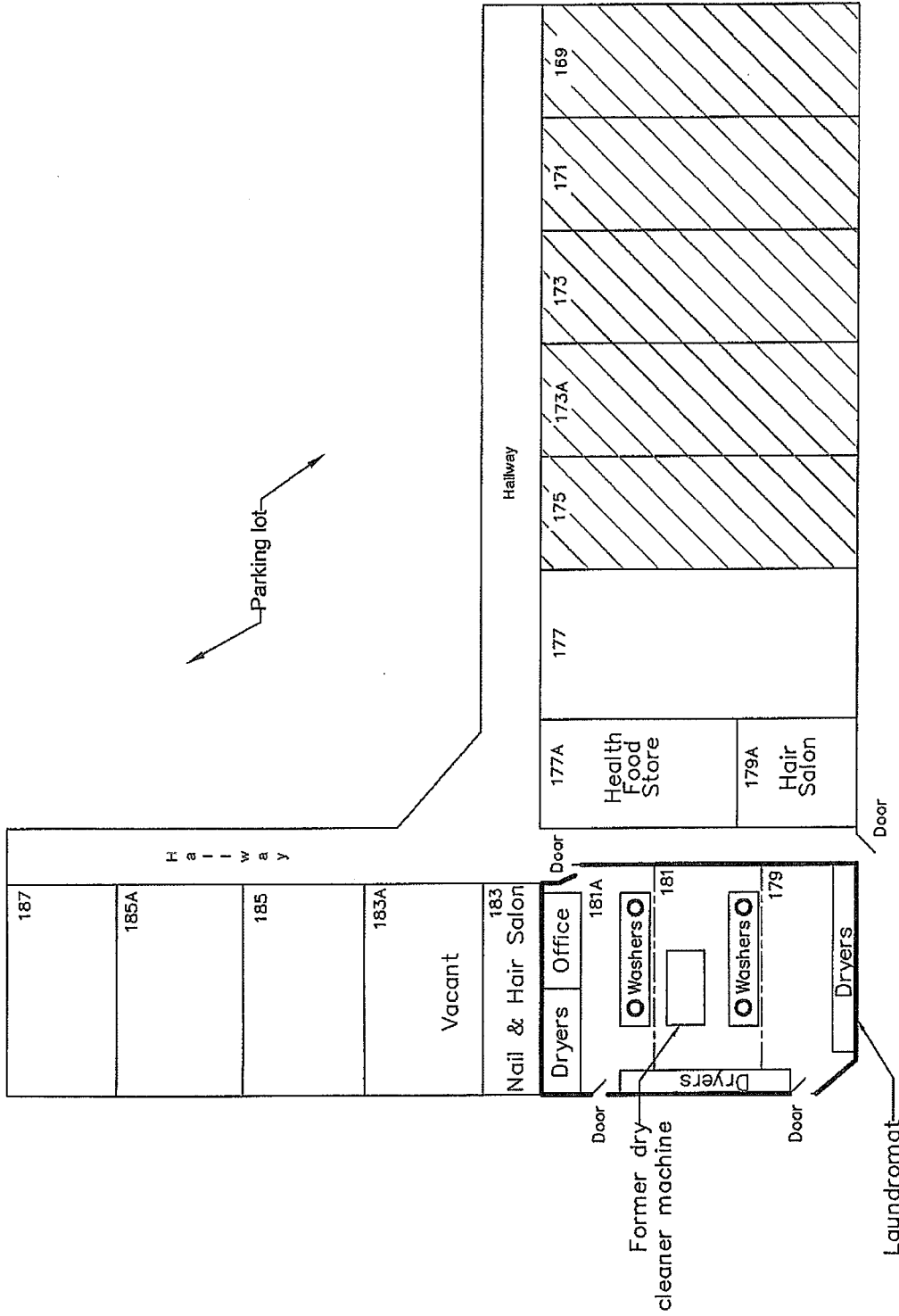


CA RICH CONSULTANTS, INC.

Environmental Specialists Since 1982
17 Dupont Street, Plainview, New York 11803

TITLE:		DATE:
Typical Soil Vapor Vent		9/22/2011
FIGURE:		SCALE:
2		N.T.S.
DRAWING NO:		DRAWN BY:
2011-M4		J.T.C.
		APPR. BY:
		E.A.W.

Elks Plaza, LLC
157-189 W. Merrick Road
Freeport, New York



LEGEND

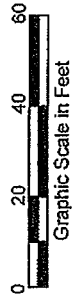
○ Sub slab vent

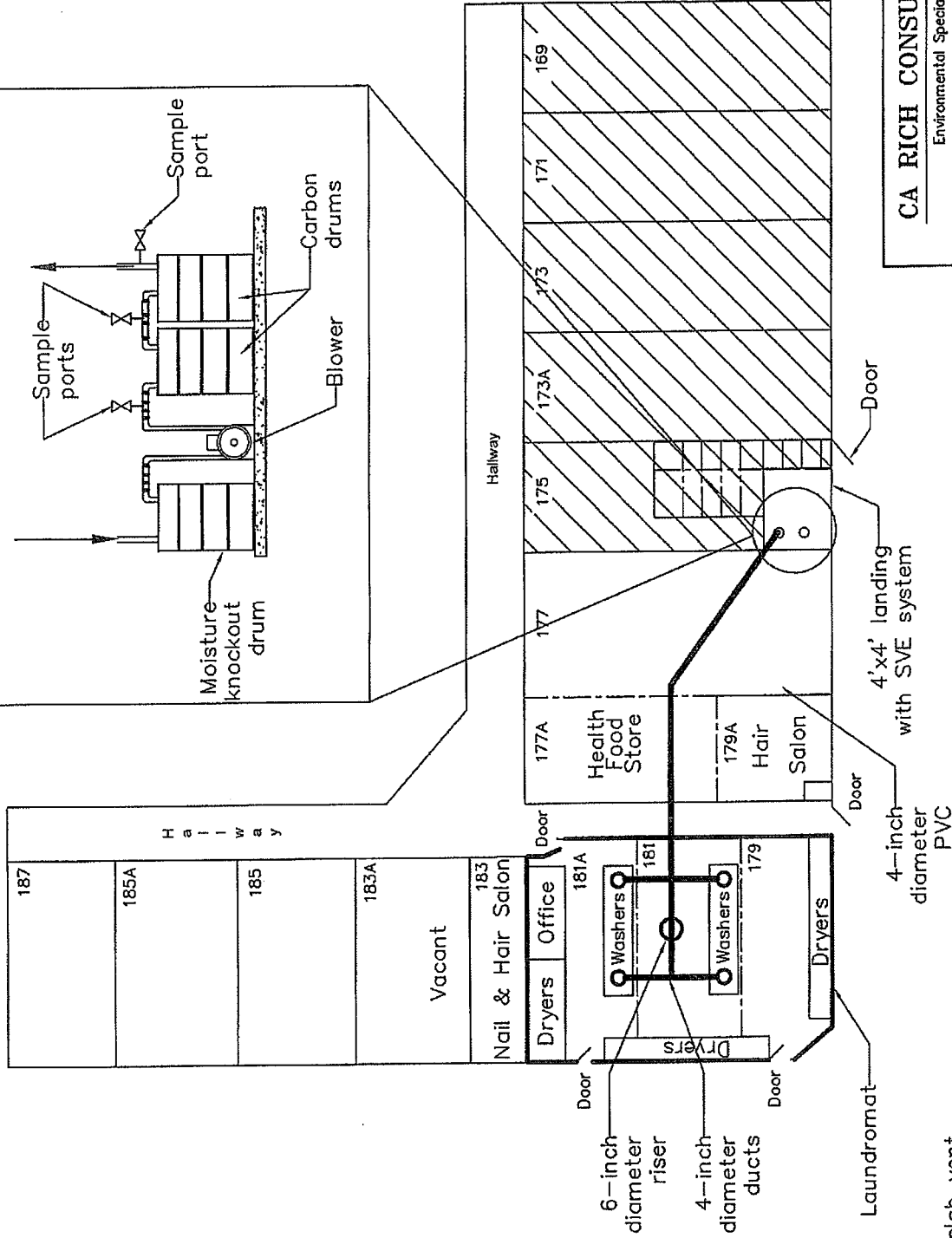
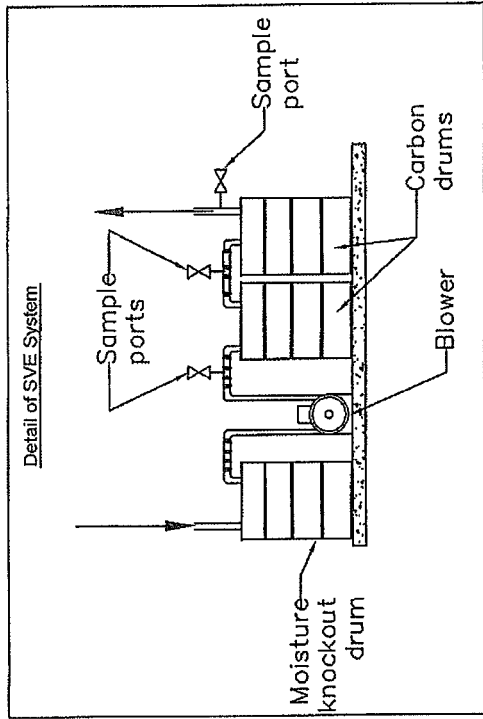
Units have basement,
basement unit is #165

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Environmental Specialists Since 1982
17 Dupont Street, Plainview, New York 11803

TITLE	Layout of Sub Slab Vents			DATE	8/13/2012
FIGURES	3	SCALE	1"=40'	DRAWN BY	J.T.C.
DRAWING NO.	2012-6	APPR. BY	E.A.W.		





LEGEND

○ Sub slab vent

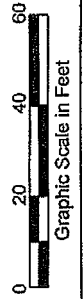
Units have basement, basement unit is # 165



CA RICH CONSULTANTS, INC.

Environmental Specialists Since 1982
17 Dupont Street, Plainview, New York 11803

TITLE	Venting System Layout		
DATE	8/13/2012	SCALE	1"=40'
FIGURE	4	DRAWN BY	J.T.C.
DRAWING NO.	2012-1A	APPR BY	S.J.O.



Tables

Table 1

Elks Plaza
157-189 West Merrick Road
Freeport, New York
Site No. 130193

PID Readings and
Summary of Laboratory Data

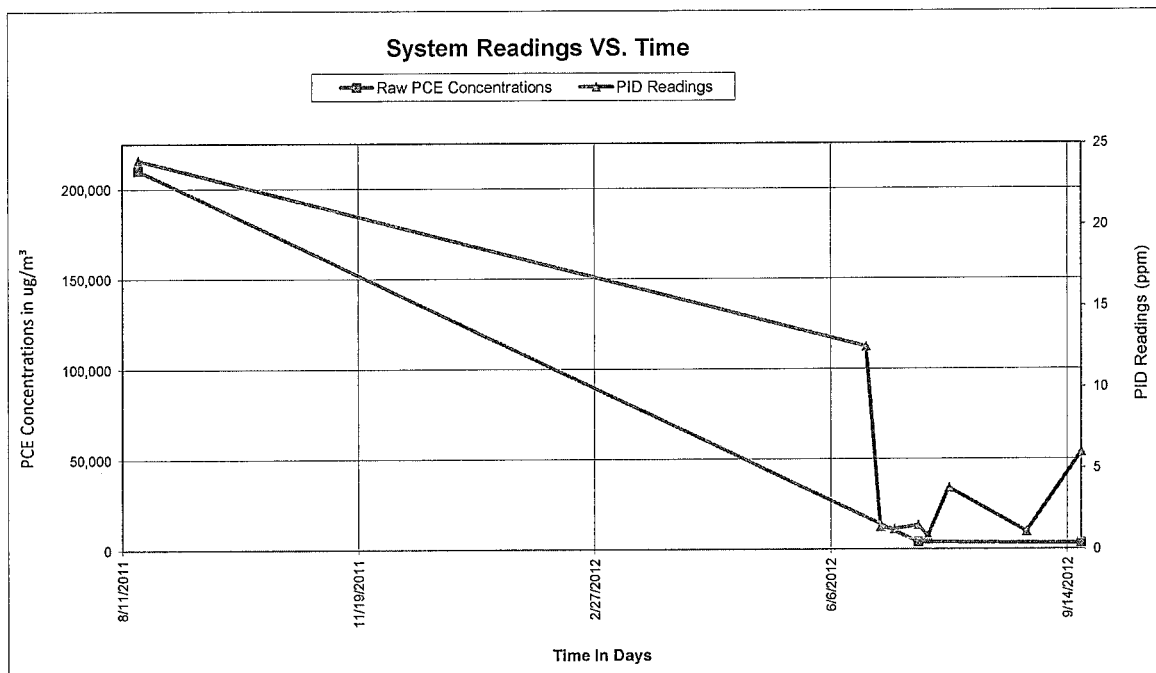
Date	Days Since System Start Up	PID Readings in Parts Per Million (PPM)			PCE in Raw Soil Vapor	PCE in Treated Soil Vapor	Comments
		Raw	Mid	Treated	ug/m ³	ug/m ³	
8/18/2011	-315	24	NA	NA	210,335	NA	Pilot test
6/21/2012	0	12.5	0.7	2.7	NA	NA	System startup
6/27/2012	6	1.4	1,000	45	NA	NA	System check
7/3/2012	12	1.25	0.0	0.0	NA	NA	System check/carbon changeout
7/13/2012	22	1.5	0.0	0.5	4,050	ND	Monthly system sample
7/17/2012	26	0.85	0.0	0.0	NA	NA	System check
7/26/2012	35	3.8	3.6	0.0	NA	NA	System check
8/28/2012	67	1.1	0.0	0.0	NA	NA	System check
9/20/2012	89	6.0	1.9	0.0	3,380	1.2	Quarterly system sample

Notes: ...

ND - Non-detect

NA - Not applicable

Time 0 = System activation date- 6/28/2012



Appendix A

Sample Summary

C. A. Rich Consultants

Job No: JB11375

Elks Plaza, Freeport, NY

Project No: GALAXY/ELKS PLAZA/SSD

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
JB11375-1	07/13/12	14:20 JTC	07/17/12	AIR Air	SVE SYSTEM RAW
JB11375-2	07/13/12	14:22 JTC	07/17/12	AIR Air	SVE SYSTEM EXHAUST

Report of Analysis

Page 1 of 3

Client Sample ID: SVE SYSTEM RAW
Lab Sample ID: JB11375-1
Matrix: AIR - Air Summa ID: A298
Method: TO-15
Project: Elks Plaza, Freeport, NY

Date Sampled: 07/13/12
Date Received: 07/17/12
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W29372.D	1.15	07/30/12	YXC	n/a	n/a	V3W1147
Run #2	3W29372A.D	1.15	07/30/12	YXC	n/a	n/a	V3W1147

	Initial Volume
Run #1	115 ml
Run #2	20.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	156 ^a	4.6	0.83	ppbv		371 ^a	11	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.097	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	0.47	0.80	0.18	ppbv	J	1.5	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.15	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.15	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.15	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.16	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.13	ppbv		ND	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.16	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	0.80	0.80	0.11	ppbv		3.9	3.9	ug/m3
74-87-3	50.49	Chloromethane	0.43	0.80	0.15	ppbv	J	0.89	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.17	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.13	ppbv		ND	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.18	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.17	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.15	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.22	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.49	0.80	0.15	ppbv	J	2.4	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.11	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	2.0	0.80	0.15	ppbv		7.9	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.17	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	0.39	0.80	0.10	ppbv	J	2.3	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.16	ppbv		ND	3.6	ug/m3

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SVE SYSTEM RAW
 Lab Sample ID: JB11375-1
 Matrix: AIR - Air Summa ID: A298
 Method: TO-15
 Project: Elks Plaza, Freeport, NY

Date Sampled: 07/13/12
 Date Received: 07/17/12
 Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	17.1	2.0	0.38	ppbv		32.2	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	0.47	0.80	0.12	ppbv	J	2.0	3.5	ug/m3
141-78-6	88	Ethyl Acetate	5.2	0.80	0.24	ppbv		19	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.80	0.096	ppbv		ND	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.14	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.13	ppbv		ND	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.18	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	ND	0.80	0.18	ppbv		ND	2.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	3.0	0.80	0.23	ppbv		7.4	2.0	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.11	ppbv		ND	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.3	0.80	0.19	ppbv		3.8	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.14	ppbv		ND	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.11	ppbv		ND	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	13.5	0.80	0.17	ppbv		55.3	3.3	ug/m3
115-07-1	42	Propylene	ND	2.0	0.28	ppbv		ND	3.4	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.11	ppbv		ND	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.088	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.20	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.81	0.80	0.096	ppbv		4.0	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.80	0.11	ppbv		ND	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.13	ppbv		ND	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	597 ^a	0.92	0.65	ppbv		4050 ^a	6.2	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.86	0.80	0.19	ppbv		2.5	2.4	ug/m3
108-88-3	92.14	Toluene	2.5	0.80	0.16	ppbv		9.4	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	7.1	0.16	0.13	ppbv		38	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	1.2	0.80	0.17	ppbv		6.7	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.13	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	1.5	0.80	0.12	ppbv		6.5	3.5	ug/m3
95-47-6	106.2	o-Xylene	0.57	0.80	0.12	ppbv	J	2.5	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	2.1	0.80	0.12	ppbv		9.1	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%	96%	65-128%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: SVE SYSTEM RAW
Lab Sample ID: JB11375-1
Matrix: AIR - Air Summa ID: A298
Method: TO-15
Project: Elks Plaza, Freeport, NY

Date Sampled: 07/13/12
Date Received: 07/17/12
Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	SVE SYSTEM EXHAUST	Date Sampled:	07/13/12
Lab Sample ID:	JB11375-2	Date Received:	07/17/12
Matrix:	AIR - Air Summa ID: A021	Percent Solids:	n/a
Method:	TO-15		
Project:	Elks Plaza, Freeport, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W29371.D	1.12	07/30/12	YXC	n/a	n/a	V3W1147
Run #2							

Run #	Initial Volume
Run #1	112 ml
Run #2	

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	15.2	0.80	0.15	ppbv		36.1	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.097	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	ND	0.80	0.18	ppbv		ND	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.15	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.15	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.15	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.16	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.13	ppbv		ND	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.16	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.11	ppbv		ND	3.9	ug/m3
74-87-3	50.49	Chloromethane	0.46	0.80	0.15	ppbv	J	0.95	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.17	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.13	ppbv		ND	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.18	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.17	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.15	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.22	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.67	0.80	0.15	ppbv	J	3.3	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.11	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.15	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.17	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.16	ppbv		ND	3.6	ug/m3

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SVE SYSTEM EXHAUST
Lab Sample ID: JB11375-2
Matrix: AIR - Air Summa ID: A021
Method: TO-15
Project: Elks Plaza, Freeport, NY

Date Sampled: 07/13/12
Date Received: 07/17/12
Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	36.3	2.0	0.38	ppbv		68.4	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.12	ppbv		ND	3.5	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.24	ppbv		ND	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.80	0.096	ppbv		ND	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.14	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.13	ppbv		ND	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.18	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	ND	0.80	0.18	ppbv		ND	2.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.61	0.80	0.23	ppbv	J	1.5	2.0	ug/m3
75-09-2	84.94	Methylene chloride	0.97	0.80	0.11	ppbv		3.4	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	2.0	0.80	0.19	ppbv		5.9	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.14	ppbv		ND	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.11	ppbv		ND	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
115-07-1	42	Propylene	ND	2.0	0.28	ppbv		ND	3.4	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.11	ppbv		ND	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.088	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.20	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.55	0.80	0.096	ppbv	J	2.7	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.80	0.11	ppbv		ND	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.13	ppbv		ND	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.16	0.11	ppbv		ND	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.19	ppbv		ND	2.4	ug/m3
108-88-3	92.14	Toluene	0.66	0.80	0.16	ppbv	J	2.5	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.13	ppbv		ND	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.17	ppbv		ND	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.13	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	0.72	0.80	0.12	ppbv	J	3.1	3.5	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.12	ppbv		ND	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	0.72	0.80	0.12	ppbv	J	3.1	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		65-128%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

CHAIN OF CUSTODY

Air Sampling Field Data Sheet

2235 US Highway 130, Dayton, NJ 08810
Tel: 732.329.0200 Fax: 732.329.3499

FED-EX Tracking #

800325179375

Bottle Order Control#

TE-7/3/2012-3

PAGE / OF /

Lab Quote #

Lab Job #	
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TB11375

[illegible]

JB11375: Chain of Custody

Page 1 of 2



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB11375 Client: _____ Project: _____

Date / Time Received: 7/17/2012 Delivery Method: _____ Airbill #'s: _____

Cooler Temps (Initial/Adjusted): _____

Cooler Security

Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | ☒ | ☐ | 3. COC Present: | ☒ | ☐ |
| 2. Custody Seals Intact: | ☒ | ☐ | 4. Smpl Dates/Time OK | ☒ | ☐ |

Cooler Temperature

Y or N

- | | | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | ☒ | ☐ |
| 2. Cooler temp verification: | _____ | |
| 3. Cooler media: | _____ | |
| 4. No. Coolers: | 0 | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | ☐ | ☒ | ☐ |
| 2. Trip Blank listed on COC: | ☐ | ☒ | ☐ |
| 3. Samples preserved properly: | ☒ | ☐ | |
| 4. VOCs headspace free: | ☐ | ☐ | ☒ |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | ☒ | ☐ |
| 2. Container labeling complete: | ☒ | ☐ |
| 3. Sample container label / COC agree: | ☒ | ☐ |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | ☒ | ☐ |
| 2. All containers accounted for: | ☒ | ☐ |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N

N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | ☒ | ☐ | |
| 2. Bottles received for unspecified tests | ☐ | ☒ | |
| 3. Sufficient volume recvd for analysis: | ☒ | ☐ | |
| 4. Compositing instructions clear: | ☐ | ☐ | ☒ |
| 5. Filtering instructions clear: | ☐ | ☐ | ☒ |

Comments

Accutest Laboratories
V: 732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www.accutest.com

JB11375: Chain of Custody
Page 2 of 2

Sample Summary

C. A. Rich Consultants

Job No: JB17242

Elks Plaza, Freeport, NY

Project No: GALAXY/ELKS PLAZA/SSD

Sample Number	Collected		Time By	Received	Matrix		Client Sample ID
	Date				Code	Type	
JB17242-1	09/20/12	10:00	JC	09/25/12	AIR	Air	SYSTEM RAW
JB17242-2	09/20/12	10:10	JC	09/25/12	AIR	Air	SYSTEM EXHAUST

Report of Analysis

Page 1 of 3

Client Sample ID:	SYSTEM RAW	Date Sampled:	09/20/12
Lab Sample ID:	JB17242-1	Date Received:	09/25/12
Matrix:	AIR - Air Summa ID: A244	Percent Solids:	n/a
Method:	TO-15		
Project:	Elks Plaza, Freeport, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W36218.D	1	09/28/12	YMH	n/a	n/a	V2W1517
Run #2	2W36250.D	1	10/01/12	YMH	n/a	n/a	V2W1519

Run #	Initial Volume
Run #1	50.0 ml
Run #2	25.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	63.6	1.6	0.29	ppbv	151	3.8	ug/m3	
106-99-0	54.09	1,3-Butadiene	ND	1.6	0.19	ppbv	ND	3.5	ug/m3	
71-43-2	78.11	Benzene	2.1	1.6	0.37	ppbv	6.7	5.1	ug/m3	
75-27-4	163.8	Bromodichloromethane	ND	1.6	0.24	ppbv	ND	11	ug/m3	
75-25-2	252.8	Bromoform	ND	1.6	0.30	ppbv	ND	17	ug/m3	
74-83-9	94.94	Bromomethane	ND	1.6	0.29	ppbv	ND	6.2	ug/m3	
593-60-2	106.9	Bromoethene	ND	1.6	0.29	ppbv	ND	7.0	ug/m3	
100-44-7	126	Benzyl Chloride	ND	1.6	0.33	ppbv	ND	8.2	ug/m3	
75-15-0	76.14	Carbon disulfide	ND	1.6	0.26	ppbv	ND	5.0	ug/m3	
108-90-7	112.6	Chlorobenzene	ND	1.6	0.22	ppbv	ND	7.4	ug/m3	
75-00-3	64.52	Chloroethane	ND	1.6	0.31	ppbv	ND	4.2	ug/m3	
67-66-3	119.4	Chloroform	1.6	1.6	0.22	ppbv	7.8	7.8	ug/m3	
74-87-3	50.49	Chloromethane	ND	1.6	0.30	ppbv	ND	3.3	ug/m3	
107-05-1	76.53	3-Chloropropene	ND	1.6	0.33	ppbv	ND	5.0	ug/m3	
95-49-8	126.6	2-Chlorotoluene	ND	1.6	0.25	ppbv	ND	8.3	ug/m3	
56-23-5	153.8	Carbon tetrachloride	ND	1.6	0.32	ppbv	ND	10	ug/m3	
110-82-7	84.16	Cyclohexane	ND	1.6	0.27	ppbv	ND	5.5	ug/m3	
75-34-3	98.96	1,1-Dichloroethane	ND	1.6	0.22	ppbv	ND	6.5	ug/m3	
75-35-4	96.94	1,1-Dichloroethylene	ND	1.6	0.37	ppbv	ND	6.3	ug/m3	
106-93-4	187.9	1,2-Dibromoethane	ND	1.6	0.22	ppbv	ND	12	ug/m3	
107-06-2	98.96	1,2-Dichloroethane	ND	1.6	0.35	ppbv	ND	6.5	ug/m3	
78-87-5	113	1,2-Dichloropropane	ND	1.6	0.31	ppbv	ND	7.4	ug/m3	
123-91-1	88.12	1,4-Dioxane	ND	1.6	0.45	ppbv	ND	5.8	ug/m3	
75-71-8	120.9	Dichlorodifluoromethane	ND	1.6	0.30	ppbv	ND	7.9	ug/m3	
124-48-1	208.3	Dibromochloromethane	ND	1.6	0.22	ppbv	ND	14	ug/m3	
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	1.6	0.26	ppbv	ND	6.3	ug/m3	
156-59-2	96.94	cis-1,2-Dichloroethylene	3.0	1.6	0.30	ppbv	12	6.3	ug/m3	
10061-01-5	111	cis-1,3-Dichloropropene	ND	1.6	0.34	ppbv	ND	7.3	ug/m3	
541-73-1	147	m-Dichlorobenzene	ND	1.6	0.30	ppbv	ND	9.6	ug/m3	
95-50-1	147	o-Dichlorobenzene	ND	1.6	0.21	ppbv	ND	9.6	ug/m3	
106-46-7	147	p-Dichlorobenzene	ND	1.6	0.20	ppbv	ND	9.6	ug/m3	
10061-02-6	111	trans-1,3-Dichloropropene	ND	1.6	0.31	ppbv	ND	7.3	ug/m3	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SYSTEM RAW	Date Sampled:	09/20/12
Lab Sample ID:	JB17242-1	Date Received:	09/25/12
Matrix:	AIR - Air Summa ID: A244	Percent Solids:	n/a
Method:	TO-15		
Project:	Elks Plaza, Freeport, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	90.3	4.0	0.76	ppbv		170	7.5	ug/m3
100-41-4	106.2	Ethylbenzene	ND	1.6	0.24	ppbv		ND	6.9	ug/m3
141-78-6	88	Ethyl Acetate	ND	1.6	0.49	ppbv		ND	5.8	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	1.6	0.19	ppbv		ND	7.9	ug/m3
76-13-1	187.4	Freon 113	ND	1.6	0.27	ppbv		ND	12	ug/m3
76-14-2	170.9	Freon 114	ND	1.6	0.25	ppbv		ND	11	ug/m3
142-82-5	100.2	Heptane	ND	1.6	0.27	ppbv		ND	6.6	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	1.6	0.37	ppbv		ND	17	ug/m3
110-54-3	86.17	Hexane	ND	1.6	0.35	ppbv		ND	5.6	ug/m3
591-78-6	100	2-Hexanone	ND	1.6	0.34	ppbv		ND	6.5	ug/m3
67-63-0	60.1	Isopropyl Alcohol	17.3	1.6	0.47	ppbv		42.5	3.9	ug/m3
75-09-2	84.94	Methylene chloride	ND	1.6	0.22	ppbv		ND	5.6	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	1.6	0.38	ppbv		ND	4.7	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	1.6	0.29	ppbv		ND	6.6	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	1.6	0.22	ppbv		ND	5.8	ug/m3
80-62-6	100.12	Methylmethacrylate	6.3	1.6	0.34	ppbv		26	6.6	ug/m3
115-07-1	42	Propylene	ND	4.0	0.56	ppbv		ND	6.9	ug/m3
100-42-5	104.1	Styrene	ND	1.6	0.22	ppbv		ND	6.8	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	1.6	0.18	ppbv		ND	8.7	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	1.6	0.24	ppbv		ND	11	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	1.6	0.24	ppbv		ND	8.7	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	1.6	0.41	ppbv		ND	12	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	1.6	0.19	ppbv		ND	7.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	1.6	0.22	ppbv		ND	7.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	1.6	0.23	ppbv		ND	7.5	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	1.6	0.26	ppbv		ND	4.9	ug/m3
127-18-4	165.8	Tetrachloroethylene	498 ^a	0.64	0.45	ppbv		3380 ^a	4.3	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	1.6	0.37	ppbv		ND	4.7	ug/m3
108-88-3	92.14	Toluene	2.7	1.6	0.32	ppbv		10	6.0	ug/m3
79-01-6	131.4	Trichloroethylene	10.1	0.32	0.26	ppbv		54.3	1.7	ug/m3
75-69-4	137.4	Trichlorofluoromethane	2.0	1.6	0.34	ppbv		11	9.0	ug/m3
75-01-4	62.5	Vinyl chloride	ND	1.6	0.26	ppbv		ND	4.1	ug/m3
108-05-4	86	Vinyl Acetate	ND	1.6	0.45	ppbv		ND	5.6	ug/m3
	106.2	m,p-Xylene	ND	1.6	0.25	ppbv		ND	6.9	ug/m3
95-47-6	106.2	o-Xylene	ND	1.6	0.25	ppbv		ND	6.9	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	1.6	0.25	ppbv		ND	6.9	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	79%	81%	65-128%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	SYSTEM RAW	Date Sampled:	09/20/12
Lab Sample ID:	JB17242-1	Date Received:	09/25/12
Matrix:	AIR - Air Summa ID: A244	Percent Solids:	n/a
Method:	TO-15		
Project:	Elks Plaza, Freeport, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	SYSTEM EXHAUST	Date Sampled:	09/20/12
Lab Sample ID:	JB17242-2	Date Received:	09/25/12
Matrix:	AIR - Air Summa ID: A291	Percent Solids:	n/a
Method:	TO-15		
Project:	Elks Plaza, Freeport, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W36219.D	1	09/28/12	YMH	n/a	n/a	V2W1517
Run #2							

Run #	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	8.4	0.20	0.036	ppbv	20	0.48	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv	ND	0.44	0.44	ug/m3
71-43-2	78.11	Benzene	0.15	0.20	0.046	ppbv	J	0.48	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv	ND	1.3	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv	ND	2.1	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv	ND	0.78	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv	ND	0.87	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv	ND	1.0	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.032	ppbv	ND	0.62	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv	ND	0.92	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv	ND	0.53	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.028	ppbv	ND	0.98	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.037	ppbv	ND	0.41	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv	ND	0.63	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv	ND	1.0	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.040	ppbv	ND	1.3	1.3	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.034	ppbv	ND	0.69	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv	ND	0.81	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv	ND	0.79	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv	ND	1.5	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.043	ppbv	ND	0.81	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv	ND	0.92	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv	ND	0.72	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.89	0.20	0.038	ppbv	4.4	0.99	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv	ND	1.7	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv	ND	0.79	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.18	0.20	0.038	ppbv	J	0.71	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv	ND	0.91	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv	ND	1.2	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv	ND	1.2	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.025	ppbv	ND	1.2	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv	ND	0.91	0.91	ug/m3

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID: SYSTEM EXHAUST
 Lab Sample ID: JB17242-2
 Matrix: AIR - Air Summa ID: A291
 Method: TO-15
 Project: Elks Plaza, Freeport, NY

Date Sampled: 09/20/12
 Date Received: 09/25/12
 Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	3.5	0.50	0.095	ppbv		6.6	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.31	0.20	0.031	ppbv		1.3	0.87	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.20	0.061	ppbv		ND	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	2.0	0.20	0.024	ppbv		9.8	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	ND	0.20	0.044	ppbv		ND	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	2.4	0.20	0.059	ppbv		5.9	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.26	0.20	0.027	ppbv		0.90	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.35	0.20	0.048	ppbv		1.0	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.027	ppbv		ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	2.6	0.20	0.024	ppbv		13	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.94	0.20	0.028	ppbv		4.6	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.17	0.040	0.028	ppbv		1.2	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.94	0.20	0.047	ppbv		2.8	0.59	ug/m3
108-88-3	92.14	Toluene	0.32	0.20	0.040	ppbv		1.2	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	2.1	0.20	0.042	ppbv		12	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.87	0.20	0.031	ppbv		3.8	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.49	0.20	0.031	ppbv		2.1	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	1.4	0.20	0.031	ppbv		6.1	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		65-128%

ND = Not detected MDL - Method Detection Limit
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 E = Indicates value exceeds calibration range

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 N = Indicates presumptive evidence of a compound

CHAIN OF CUSTODY

Air Sampling Field Data Sheet

2235 US Highway 130, Dayton, NJ 08810

Tel: 732.329.0200 Fax: 732.329.3499

FED-EX Tracking #

7090 3269-3725

Lab Quote #

Bottle Order Control # 11

MC-9/6/2012-13

Lab Job # TB17247

PAGE / OF /

[illegible]

JB17242: Chain of Custody

Page 1 of 2



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB17242 Client: _____ Project: _____

Date / Time Received: 9/25/2012 Delivery Method: _____ Airbill #'s: _____

Cooler Temps (Initial/Adjusted): _____

Cooler Security

Y or N

1. Custody Seals Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐

3. COC Present: ☒ ☐
4. Smpl Dates/Time OK ☒ ☐

Cooler Temperature

Y or N

1. Temp criteria achieved: ☒ ☐
2. Cooler temp verification: _____
3. Cooler media: _____
4. No. Coolers: _____

Quality Control Preservation

Y or N N/A

1. Trip Blank present / cooler: ☐ ☒ ☐
2. Trip Blank listed on COC: ☐ ☒ ☐
3. Samples preserved properly: ☒ ☐
4. VOCs headspace free: ☐ ☐ ☒

Sample Integrity - Documentation

Y or N

1. Sample labels present on bottles: ☒ ☐
2. Container labeling complete: ☒ ☐
3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition

Y or N

1. Sample recvd within HT: ☒ ☐
2. All containers accounted for: ☒ ☐
3. Condition of sample: _____
Intact

Sample Integrity - Instructions

Y or N N/A

1. Analysis requested is clear: ☒ ☐
2. Bottles received for unspecified tests: ☐ ☒
3. Sufficient volume recvd for analysis: ☒ ☐
4. Compositing instructions clear: ☐ ☐ ☒
5. Filtering instructions clear: ☐ ☐ ☒

Comments

Accutest Laboratories
V: 732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www.accutest.com

JB17242: Chain of Custody

Page 2 of 2

Appendix B

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD982183563	2. Page 1 of 1	3. Emergency Response Phone 516-516-4765	4. Manifest Tracking Number 009182208 JJK		
5. Generator's Name and Mailing Address Elite Plaza 157-189 West Merrick Road Freeport, NY 11520				Generator's Site Address (if different than mailing address)			
Generator's Phone: 516-576-8844							
6. Transporter 1 Company Name Freehold Cartage, Inc.				U.S. EPA ID Number NJD054126184			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address Chemtron Corporation 35550 Schneider Court Avon, OH 44011 USA				U.S. EPA ID Number OH0086060300			
Facility's Phone: 440-837-6348							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt/Vol.	13. Waste Codes
			No.	Type			
	X	NA3077, RQ, Hazardous Waste Solid, N.O.S., 9, PGIII, (D039, F002) (Tetrachloroethylene) ERG 171	1	DM	175	P	D039 F002
14. Special Handling Instructions and Additional Information 95.1) 20120803-026 Plate # 1326 597 ME D 56127 1106707 **Certificate of Disposal Required**							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Officer's Printed/Typed Name John Dull on behalf of CA Rich				Signature <i>[Signature]</i> on behalf of CA Rich			
16. International Shipments ☐ Import to U.S. ☒ Export from U.S.				Port of entry/exit Date leaving U.S.			
Transporter signature (for exports only):							
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name Michael Brochton				Signature <i>[Signature]</i>		Month Day Year 08 23 12
	Transporter 2 Printed/Typed Name				Signature		Month Day Year
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
	Manifest Reference Number:						
	18b. Alternate Facility (or Generator) U.S. EPA ID Number						
	Facility's Phone:						
	18c. Signature of Alternate Facility (or Generator)						Month Day Year
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
	1. H141	2.	3.	4.			
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a.						
	Printed/Typed Name JOSEPH J. KISKA				Signature <i>[Signature]</i>		Month Day Year 10 10 12

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NYD982183568		Manifest Document No. 38339		2. Page 1 of 1	
3. Generator's Name and Mailing Address Elks Plaza 157-189 West Merrick Road Freeport, NY 11520 4. Generator's Phone (516) 576-8844							
5. Transporter 1 Company Name Freehold Cartage, Inc.		6. US EPA ID Number NJD054126164		A. State Transporter's ID 1726597 ME		B. Transporter 1 Phone (732) 462-1001	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID		D. Transporter 2 Phone	
9. Designated Facility Name and Site Address Vexor Technology, Inc. 955 West Smith Road Medina, OH 44256		10. US EPA ID Number OH D077772895		E. State Facility's ID		F. Facility's Phone (330) 721-9773	
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	
				No. Type		Unit WL/Vol.	
a. Non Hazardous Soil Non-DOT Regulated Material D/S NOEF 103179				1		DM 425 P	
b. 4/0 8/214							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information 11a) VEX23656 **Certificate of Disposal Required**							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name John Dull on behalf of CA Rich				Signature <i>[Signature]</i>		Date 8/23/12	
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Name Michael Brochon				Signature <i>[Signature]</i>		Date 08/23/12	
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Date	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name JOE MANNINO				Signature <i>[Signature]</i>		Date 9/17/12	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

