



October 26, 2015

Robert Peeple
2562 N. Wauwatosa Avenue
Wauwatosa, WI 53213

Subject: Environmental Investigation Sampling Results
BRRTS#: 02-30-287150

Dear Mr. Peeple:

In accordance with the executed Agreement to Provide Access for Sampling Activities, and in accordance with Wisconsin Department of Natural Resources (WDNR) regulation NR 716.14, Environmental Forensic Investigations, Inc. (EnviroForensics) is providing the results of environmental samples collected from your property located at 2562 North Wauwatosa Avenue in Wauwatosa, Wisconsin on October 7 and October 8, 2015. The sampling activities are part of an environmental investigation being performed for the former Vogue Cleaners (Vogue) facility located at 2578 N. Wauwatosa Avenue, Wauwatosa Wisconsin at the direction of the WDNR pursuant to the authority granted to it under State and Federal law. The chemicals of concern for the investigation are the dry cleaning solvent tetrachloroethene (PCE) and its associated breakdown products.

The Responsible Party is:

Vogue Cleaners
2578 North Wauwatosa Avenue
Wauwatosa, WI

Sampling Results

Three (3) sub-slab vapor samples designated 6349-2562-SSV-1, 6349-2562-SSV-2 and 6349-2562-SSV-3 were collected from the basement of your building. Indoor air samples were collected from the basement (6349-2562-IA-B-1, 6349-2562-IA-B-2), first floor (6349-2562-IA-1-1, 6349-2562-IA-1-2), and second floor (6349-2562-IA-2). For quality control purposes a sample of outdoor air designated 6349-2562-OA was also collected. The sampling locations are depicted on the attached map. The laboratory report that relates to the vapor and air samples is also attached.

Document: 6349-0145
Environmental Forensic Investigations, Inc.
N16 W23390 Stone Ridge Dr, Suite G, Waukesha, WI 53188
Phone: 414-982-3988 • Fax 317-972-7875

As shown on the summary table, sub-slab vapor sample SSV-1 and SSV-2 contained PCE, but at concentrations below the residential vapor risk screening levels established by WDNR for use in evaluating sub-slab vapor concentrations. The chemicals of concern were not detected in the indoor air samples or the outdoor air sample. At this time, there does not appear to be a vapor intrusion risk within your home.

At this time, we do not recommend further testing in your home. If you have any questions or concerns, please contact us at 262-510-0612 or by email at rhoverman@enviroforensics.com. The WDNR project manager, Gena Larson, can be reached at 608-261-5404. We greatly appreciate your help and patience with this matter.

Sincerely,

Environmental Forensic Investigations, Inc.

A handwritten signature in blue ink, appearing to read "Kyle Heimstead".

Kyle Heimstead
Staff Geologist

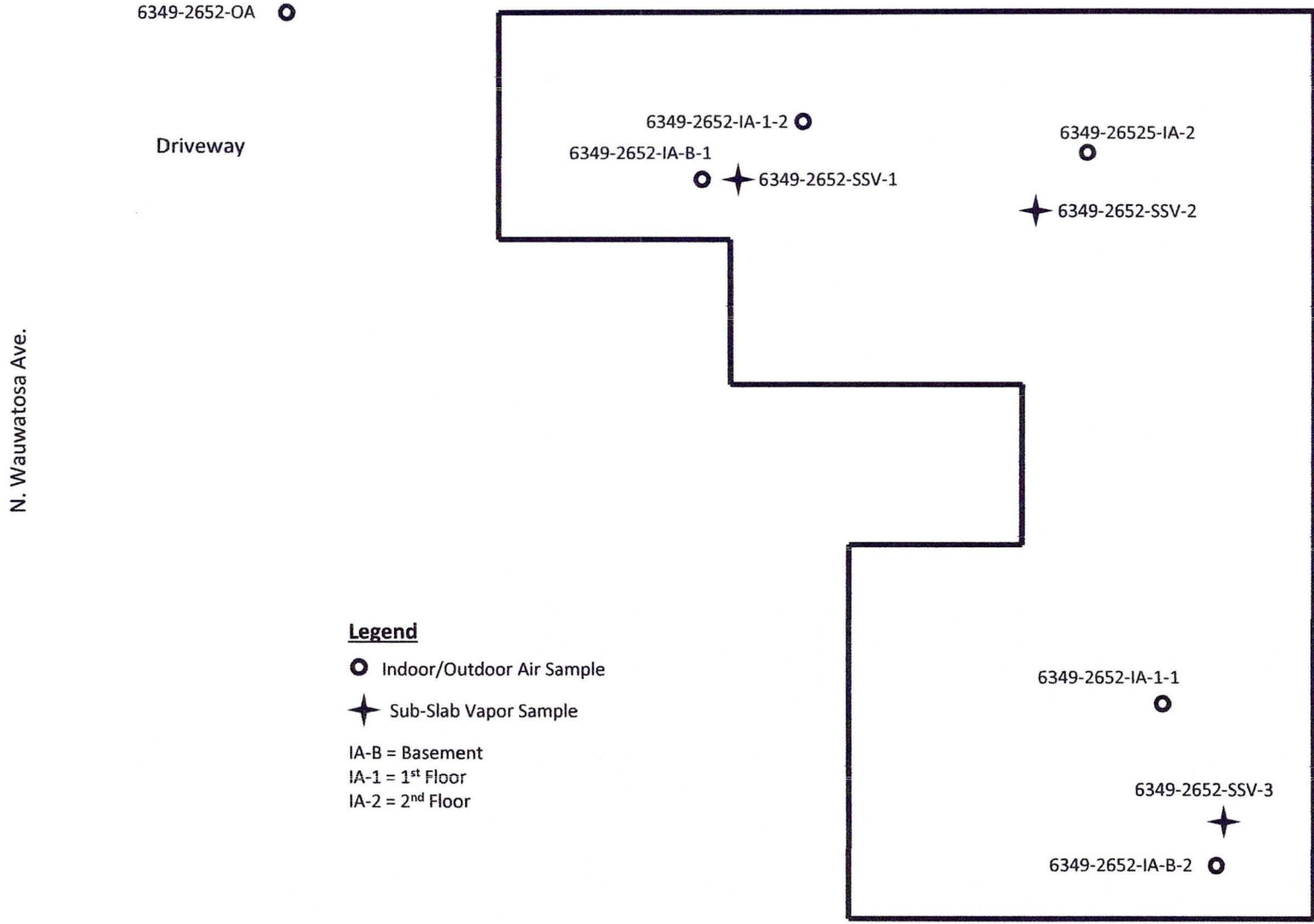
A handwritten signature in blue ink, appearing to read "Rob Hoverman".

Rob Hoverman, LPG
Senior Project Manager

Copy: Gena Larson, Wisconsin Department of Natural Resources

Attachments: Vapor Intrusion Sample Location Map
Summary of Vapor Intrusion Sampling Results
Laboratory Analytical Report

VAPOR INTRUSION SAMPLE LOCATIONS
2652 N. Wauwatosa Ave, Wauwatosa, Wisconsin



Legend

- Indoor/Outdoor Air Sample
- ✦ Sub-Slab Vapor Sample
- IA-B = Basement
- IA-1 = 1st Floor
- IA-2 = 2nd Floor



Table 1
Sub-Slab and Indoor/Outdoor Air Vapor Sample Analytical Results
Former Vogue Cleaners
Wauwatosa, Wisconsin

Sample Address	Sample Identification	Sample Location	Applicable Criteria	Date Sampled	Chlorinated VOCs				
					Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
INDOOR/ OUTDOOR AIR									
Preventative Action Limit					42	2.1	NE	NE	1.7
2562 Wauwatosa Ave	6349-2562-IA-B-1	Basement North	Residential	10/8/2015	<3.19	<1.07	<19.8	<39.6	<1.28
2562 Wauwatosa Ave	6349-2562-IA-B-2	Basement South	Residential	10/8/2015	<3.19	<1.07	<19.8	<39.6	<1.28
2562 Wauwatosa Ave	6349-2562-IA-1-1	1st Floor South	Residential	10/8/2015	<3.19	<1.07	<19.8	<39.6	<1.28
2562 Wauwatosa Ave	6349-2562-IA-1-2	1st Floor North	Residential	10/8/2015	<3.19	<1.07	<19.8	<39.6	<1.28
2562 Wauwatosa Ave	6349-2562-IA-2	2nd Floor	Residential	10/8/2015	<3.19	<1.07	<19.8	<39.6	<1.28
2562 Wauwatosa Ave	6349-2562-OA	Outside	Residential	10/8/2015	<3.19	<1.07	<19.8	<39.6	<1.28
SUB-SLAB VAPOR									
Residential Vapor Risk Screening Level					1400	70	NE	NE	57
2562 Wauwatosa Ave	6349-2562-SSV-1	NW Side of House	Residential	10/8/2015	4.68	<1.07	<19.8	<39.6	<1.28
2562 Wauwatosa Ave	6349-2562-SSV-2	SE Side of House	Residential	10/8/2015	14.4	<1.07	<19.8	<39.6	<1.28
2562 Wauwatosa Ave	6349-2562-SSV-2	SE Side of House	Residential	10/8/2015	<3.19	<1.07	<19.8	<39.6	<1.28

Notes:

Results reported in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)
 Analysis performed by Envision Laboratories according to EPA Method TO-15
 IA = Indoor Air
 NE = Not Established
 OA = Outdoor Air
 SSV = Sub-Slab Vapor
 Sub-slab vapor screening levels derived using the attenuation factor of 0.3.
Bolded values are above detection limits



EnvisionAir
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Mr. Rob Hoverman
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

October 19, 2015

ENVision Project Number: 2015-573
Client Project Name: 6349 – Former Vogue Milwaukee

Dear Mr. Hoverman,

Please find the attached analytical report for the samples received October 12, 2015. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

A handwritten signature in cursive script that reads "David Norris".

David Norris

Client Services Manager
EnvisionAir



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Client Name: ENVIROFORENSICS
Project ID: 6349 FORMER VOGUE CLEANERS
Client Project Manager: ROB HOVERMAN
EnvisionAir Project Number: 2015-573

Sample Summary

		<i>Canister Pressure / Vacuum</i>									
<u>Laboratory Sample Number:</u>	<u>Sample Description:</u>	<u>Matrix:</u>	<u>START</u>	<u>START</u>	<u>End Date</u>	<u>End Time</u>	<u>Date</u>	<u>Time</u>	<u>Initial Field</u>	<u>Final Field</u>	<u>Lab</u>
			<u>Date</u>	<u>Time</u>							<u>Collected:</u>
15-2143	6349-2562-IA-1-1	A	10/7/15	8:25	10/8/15	8:00	10/12/15	11:45	-30	-8	-8
15-2144	6349-2562-IA-1-2	A	10/7/15	8:31	10/8/15	8:03	10/12/15	11:45	-29	-6	-6
15-2145	6349-2562-IA-2	A	10/7/15	8:36	10/8/15	8:05	10/12/15	11:45	-29	-7	-7
15-2146	6349-2562-IA-B-1	A	10/7/15	8:39	10/8/15	8:08	10/12/15	11:45	-28	-6	-6
15-2147	6349-2562-IA-B-2	A	10/7/15	8:43	10/8/15	8:11	10/12/15	11:45	-28	-5	-5
15-2148	6349-2562-OA	A	10/7/15	8:50	10/8/15	8:15	10/12/15	11:45	-29	-8	-8



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Client Name: ENVIROFORENSICS
Project ID: 6349 FORMER VOGUE CLEANERS
Client Project Manager: ROB HOVERMAN
EnvisionAir Project Number: 2015-573

Analytical Method: TO-15
Analytical Batch: 101315AIR

Client Sample ID: 6349-2562-IA-1-1 **Sample Collection START Date/Time:** 10/7/15 8:25
Envision Sample Number: 15-2143 **Sample Collection END Date/Time:** 10/8/15 8:00
Sample Matrix: AIR **Sample Received Date/Time:** 10/12/15 11:45

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
4-Ethyltoluene	< 492	492	
4-Methyl-2-pentanone (MIBK)	< 2050	2050	
1,1,1-Trichloroethane	< 546	546	
1,1,2,2-Tetrachloroethane	< 0.34	0.34	1
1,1,2-Trichloroethane	< 0.21	0.21	1
1,1-Dichloroethane	< 4.05	4.05	
1,1-Dichloroethene	< 198	198	
1,2,4-Trichlorobenzene	< 0.74	0.74	
1,2,4-Trimethylbenzene	< 4.92	4.92	
1,2-dibromoethane (EDB)	< 0.03	0.03	1
1,2-Dichlorobenzene	< 60.1	60.1	
1,2-Dichloroethane	< 0.40	0.40	
1,2-Dichloropropane	< 0.46	0.46	
1,3,5-Trimethylbenzene	< 4.92	4.92	
1,3-Butadiene	< 0.22	0.22	
1,3-Dichlorobenzene	< 60.1	60.1	
1,4-Dichlorobenzene	< 0.60	0.60	
1,4-Dioxane	< 1.80	1.80	
2-Butanone (MEK)	< 2950	2950	
2-Hexanone	< 20.5	20.5	
Acetone	< 2380	2380	
Benzene	< 1.60	1.60	
Benzyl Chloride	< 0.41	0.41	1
Bromodichloromethane	< 0.54	0.54	1
Bromoform	< 10.3	10.3	
Bromomethane	< 3.88	3.88	
Carbon Disulfide	< 311	311	
Carbon Tetrachloride	< 0.63	0.63	
Chlorobenzene	< 23.0	23.0	
Chloroethane	< 13.2	13.2	



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<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
Chloroform	< 0.83	0.83	
Chloromethane	< 20.6	20.6	
cis-1,2-Dichloroethene	< 19.8	19.8	
cis-1,3-Dichloropropene	< 4.54	4.54	
Cyclohexane	< 5510	5510	
Dibromochloromethane	< 0.85	0.85	
Dichlorodifluoromethane	< 49.5	49.5	
Ethyl Acetate	< 1800	1800	
Ethylbenzene	< 8.68	8.68	
Hexachloro-1,3-butadiene	< 1.07	1.07	
Isooctane	< 467	467	
m,p-Xylene	< 43.4	43.4	
Methylene Chloride	< 41.7	41.7	
Methyl-tert-butyl ether	< 36.1	36.1	
N-Heptane	< 410	410	
N-Hexane	< 176	176	
o-Xylene	< 43.4	43.4	
Propylene	< 172	172	
Styrene	< 426	426	
Tetrachloroethene	< 3.19	3.19	
Tetrahydrofuran	< 295	295	
Toluene	< 3770	3770	
trans-1,2-Dichloroethene	< 39.6	39.6	
trans-1,3-Dichloropropene	< 4.54	4.54	
Trichlorethene	< 1.07	1.07	
Trichlorofluoromethane	< 562	562	
Vinyl Acetate	< 176	176	
Vinyl Bromide	< 0.44	0.44	
Vinyl Chloride	< 1.28	1.28	
4-bromofluorobenzene (surrogate)	96%		
Analysis Date/Time:	10-13-15/19:55		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6349 FORMER VOGUE CLEANERS
Client Project Manager: ROB HOVERMAN
EnvisionAir Project Number: 2015-573

Analytical Method: TO-15
Analytical Batch: 101315AIR

Client Sample ID: 6349-2562-IA-1-2 **Sample Collection START Date/Time:** 10/7/15 8:31
Envision Sample Number: 15-2144 **Sample Collection END Date/Time:** 10/8/15 8:03
Sample Matrix: AIR **Sample Received Date/Time:** 10/12/15 11:45

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
4-Ethyltoluene	< 492	492	
4-Methyl-2-pentanone (MIBK)	< 2050	2050	
1,1,1-Trichloroethane	< 546	546	
1,1,1,2-Tetrachloroethane	< 0.34	0.34	1
1,1,2-Trichloroethane	< 0.21	0.21	1
1,1-Dichloroethane	< 4.05	4.05	
1,1-Dichloroethene	< 198	198	
1,2,4-Trichlorobenzene	< 0.74	0.74	
1,2,4-Trimethylbenzene	< 4.92	4.92	
1,2-dibromoethane (EDB)	< 0.03	0.03	1
1,2-Dichlorobenzene	< 60.1	60.1	
1,2-Dichloroethane	< 0.40	0.40	
1,2-Dichloropropane	< 0.46	0.46	
1,3,5-Trimethylbenzene	< 4.92	4.92	
1,3-Butadiene	< 0.22	0.22	
1,3-Dichlorobenzene	< 60.1	60.1	
1,4-Dichlorobenzene	< 0.60	0.60	
1,4-Dioxane	< 1.80	1.80	
2-Butanone (MEK)	< 2950	2950	
2-Hexanone	< 20.5	20.5	
Acetone	< 2380	2380	
Benzene	< 1.60	1.60	
Benzyl Chloride	< 0.41	0.41	1
Bromodichloromethane	< 0.54	0.54	1
Bromoform	< 10.3	10.3	
Bromomethane	< 3.88	3.88	
Carbon Disulfide	< 311	311	
Carbon Tetrachloride	< 0.63	0.63	
Chlorobenzene	< 23.0	23.0	
Chloroethane	< 13.2	13.2	



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<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
Chloroform	< 0.83	0.83	
Chloromethane	< 20.6	20.6	
cis-1,2-Dichloroethene	< 19.8	19.8	
cis-1,3-Dichloropropene	< 4.54	4.54	
Cyclohexane	< 5510	5510	
Dibromochloromethane	< 0.85	0.85	
Dichlorodifluoromethane	< 49.5	49.5	
Ethyl Acetate	< 1800	1800	
Ethylbenzene	< 8.68	8.68	
Hexachloro-1,3-butadiene	< 1.07	1.07	
Isooctane	< 467	467	
m,p-Xylene	< 43.4	43.4	
Methylene Chloride	< 41.7	41.7	
Methyl-tert-butyl ether	< 36.1	36.1	
N-Heptane	< 410	410	
N-Hexane	< 176	176	
o-Xylene	< 43.4	43.4	
Propylene	< 172	172	
Styrene	< 426	426	
Tetrachloroethene	< 3.19	3.19	
Tetrahydrofuran	< 295	295	
Toluene	< 3770	3770	
trans-1,2-Dichloroethene	< 39.6	39.6	
trans-1,3-Dichloropropene	< 4.54	4.54	
Trichlorethene	< 1.07	1.07	
Trichlorofluoromethane	< 562	562	
Vinyl Acetate	< 176	176	
Vinyl Bromide	< 0.44	0.44	
Vinyl Chloride	< 1.28	1.28	
4-bromofluorobenzene (surrogate)	97%		
Analysis Date/Time:	10-13-15/20:35		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6349 FORMER VOGUE CLEANERS
Client Project Manager: ROB HOVERMAN
EnvisionAir Project Number: 2015-573

Analytical Method: TO-15
Analytical Batch: 101315AIR

Client Sample ID: 6349-2562-IA-2
Envision Sample Number: 15-2145
Sample Matrix: AIR

Sample Collection START Date/Time: 10/7/15 8:36
Sample Collection END Date/Time: 10/8/15 8:05
Sample Received Date/Time: 10/12/15 11:45

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
4-Ethyltoluene	< 492	492	
4-Methyl-2-pentanone (MIBK)	< 2050	2050	
1,1,1-Trichloroethane	< 546	546	
1,1,2,2-Tetrachloroethane	< 0.34	0.34	1
1,1,2-Trichloroethane	< 0.21	0.21	1
1,1-Dichloroethane	< 4.05	4.05	
1,1-Dichloroethene	< 198	198	
1,2,4-Trichlorobenzene	< 0.74	0.74	
1,2,4-Trimethylbenzene	< 4.92	4.92	
1,2-dibromoethane (EDB)	< 0.03	0.03	1
1,2-Dichlorobenzene	< 60.1	60.1	
1,2-Dichloroethane	< 0.40	0.40	
1,2-Dichloropropane	< 0.46	0.46	
1,3,5-Trimethylbenzene	< 4.92	4.92	
1,3-Butadiene	< 0.22	0.22	
1,3-Dichlorobenzene	< 60.1	60.1	
1,4-Dichlorobenzene	< 0.60	0.60	
1,4-Dioxane	< 1.80	1.80	
2-Butanone (MEK)	< 2950	2950	
2-Hexanone	< 20.5	20.5	
Acetone	< 2380	2380	
Benzene	< 1.60	1.60	
Benzyl Chloride	< 0.41	0.41	1
Bromodichloromethane	< 0.54	0.54	1
Bromoform	< 10.3	10.3	
Bromomethane	< 3.88	3.88	
Carbon Disulfide	< 311	311	
Carbon Tetrachloride	< 0.63	0.63	
Chlorobenzene	< 23.0	23.0	
Chloroethane	< 13.2	13.2	



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<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
Chloroform	< 0.83	0.83	
Chloromethane	< 20.6	20.6	
cis-1,2-Dichloroethene	< 19.8	19.8	
cis-1,3-Dichloropropene	< 4.54	4.54	
Cyclohexane	< 5510	5510	
Dibromochloromethane	< 0.85	0.85	
Dichlorodifluoromethane	< 49.5	49.5	
Ethyl Acetate	< 1800	1800	
Ethylbenzene	< 8.68	8.68	
Hexachloro-1,3-butadiene	< 1.07	1.07	
Isooctane	< 467	467	
m,p-Xylene	< 43.4	43.4	
Methylene Chloride	< 41.7	41.7	
Methyl-tert-butyl ether	< 36.1	36.1	
N-Heptane	< 410	410	
N-Hexane	< 176	176	
o-Xylene	< 43.4	43.4	
Propylene	< 172	172	
Styrene	< 426	426	
Tetrachloroethene	< 3.19	3.19	
Tetrahydrofuran	< 295	295	
Toluene	< 3770	3770	
trans-1,2-Dichloroethene	< 39.6	39.6	
trans-1,3-Dichloropropene	< 4.54	4.54	
Trichlorethene	< 1.07	1.07	
Trichlorofluoromethane	< 562	562	
Vinyl Acetate	< 176	176	
Vinyl Bromide	< 0.44	0.44	
Vinyl Chloride	< 1.28	1.28	
4-bromofluorobenzene (surrogate)	95%		
Analysis Date/Time:	10-13-15/21:15		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6349 FORMER VOGUE CLEANERS
Client Project Manager: ROB HOVERMAN
EnvisionAir Project Number: 2015-573

Analytical Method: TO-15
Analytical Batch: 101315AIR

Client Sample ID: 6349-2562-IA-B-1 **Sample Collection START Date/Time:** 10/7/15 8:39
Envision Sample Number: 15-2146 **Sample Collection END Date/Time:** 10/8/15 8:08
Sample Matrix: AIR **Sample Received Date/Time:** 10/12/15 11:45

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
4-Ethyltoluene	< 492	492	
4-Methyl-2-pentanone (MIBK)	< 2050	2050	
1,1,1-Trichloroethane	< 546	546	
1,1,1,2-Tetrachloroethane	< 0.34	0.34	1
1,1,2-Trichloroethane	< 0.21	0.21	1
1,1-Dichloroethane	< 4.05	4.05	
1,1-Dichloroethene	< 198	198	
1,2,4-Trichlorobenzene	< 0.74	0.74	
1,2,4-Trimethylbenzene	< 4.92	4.92	
1,2-dibromoethane (EDB)	< 0.03	0.03	1
1,2-Dichlorobenzene	< 60.1	60.1	
1,2-Dichloroethane	< 0.40	0.40	
1,2-Dichloropropane	< 0.46	0.46	
1,3,5-Trimethylbenzene	< 4.92	4.92	
1,3-Butadiene	< 0.22	0.22	
1,3-Dichlorobenzene	< 60.1	60.1	
1,4-Dichlorobenzene	< 0.60	0.60	
1,4-Dioxane	< 1.80	1.80	
2-Butanone (MEK)	< 2950	2950	
2-Hexanone	< 20.5	20.5	
Acetone	< 2380	2380	
Benzene	< 1.60	1.60	
Benzyl Chloride	< 0.41	0.41	1
Bromodichloromethane	< 0.54	0.54	1
Bromoform	< 10.3	10.3	
Bromomethane	< 3.88	3.88	
Carbon Disulfide	< 311	311	
Carbon Tetrachloride	< 0.63	0.63	
Chlorobenzene	< 23.0	23.0	
Chloroethane	< 13.2	13.2	



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<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
Chloroform	< 0.83	0.83	
Chloromethane	< 20.6	20.6	
cis-1,2-Dichloroethene	< 19.8	19.8	
cis-1,3-Dichloropropene	< 4.54	4.54	
Cyclohexane	< 5510	5510	
Dibromochloromethane	< 0.85	0.85	
Dichlorodifluoromethane	< 49.5	49.5	
Ethyl Acetate	< 1800	1800	
Ethylbenzene	< 8.68	8.68	
Hexachloro-1,3-butadiene	< 1.07	1.07	
Isooctane	< 467	467	
m,p-Xylene	< 43.4	43.4	
Methylene Chloride	< 41.7	41.7	
Methyl-tert-butyl ether	< 36.1	36.1	
N-Heptane	< 410	410	
N-Hexane	< 176	176	
o-Xylene	< 43.4	43.4	
Propylene	< 172	172	
Styrene	< 426	426	
Tetrachloroethene	< 3.19	3.19	
Tetrahydrofuran	< 295	295	
Toluene	< 3770	3770	
trans-1,2-Dichloroethene	< 39.6	39.6	
trans-1,3-Dichloropropene	< 4.54	4.54	
Trichlorethene	< 1.07	1.07	
Trichlorofluoromethane	< 562	562	
Vinyl Acetate	< 176	176	
Vinyl Bromide	< 0.44	0.44	
Vinyl Chloride	< 1.28	1.28	
4-bromofluorobenzene (surrogate)	94%		
Analysis Date/Time:	10-13-15/21:56		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6349 FORMER VOGUE CLEANERS
Client Project Manager: ROB HOVERMAN
EnvisionAir Project Number: 2015-573

Analytical Method: TO-15
Analytical Batch: 101315AIR

Client Sample ID: 6349-2562-IA-B-2
Envision Sample Number: 15-2147
Sample Matrix: AIR

Sample Collection START Date/Time: 10/7/15 8:43
Sample Collection END Date/Time: 10/8/15 8:11
Sample Received Date/Time: 10/12/15 11:45

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
4-Ethyltoluene	< 492	492	
4-Methyl-2-pentanone (MIBK)	< 2050	2050	
1,1,1-Trichloroethane	< 546	546	
1,1,1,2-Tetrachloroethane	< 0.34	0.34	1
1,1,2-Trichloroethane	< 0.21	0.21	1
1,1-Dichloroethane	< 4.05	4.05	
1,1-Dichloroethene	< 198	198	
1,2,4-Trichlorobenzene	< 0.74	0.74	
1,2,4-Trimethylbenzene	< 4.92	4.92	
1,2-dibromoethane (EDB)	< 0.03	0.03	1
1,2-Dichlorobenzene	< 60.1	60.1	
1,2-Dichloroethane	< 0.40	0.40	
1,2-Dichloropropane	< 0.46	0.46	
1,3,5-Trimethylbenzene	< 4.92	4.92	
1,3-Butadiene	< 0.22	0.22	
1,3-Dichlorobenzene	< 60.1	60.1	
1,4-Dichlorobenzene	< 0.60	0.60	
1,4-Dioxane	< 1.80	1.80	
2-Butanone (MEK)	< 2950	2950	
2-Hexanone	< 20.5	20.5	
Acetone	< 2380	2380	
Benzene	< 1.60	1.60	
Benzyl Chloride	< 0.41	0.41	1
Bromodichloromethane	< 0.54	0.54	1
Bromoform	< 10.3	10.3	
Bromomethane	< 3.88	3.88	
Carbon Disulfide	< 311	311	
Carbon Tetrachloride	< 0.63	0.63	
Chlorobenzene	< 23.0	23.0	
Chloroethane	< 13.2	13.2	



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<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
Chloroform	< 0.83	0.83	
Chloromethane	< 20.6	20.6	
cis-1,2-Dichloroethene	< 19.8	19.8	
cis-1,3-Dichloropropene	< 4.54	4.54	
Cyclohexane	< 5510	5510	
Dibromochloromethane	< 0.85	0.85	
Dichlorodifluoromethane	< 49.5	49.5	
Ethyl Acetate	< 1800	1800	
Ethylbenzene	< 8.68	8.68	
Hexachloro-1,3-butadiene	< 1.07	1.07	
Isooctane	< 467	467	
m,p-Xylene	< 43.4	43.4	
Methylene Chloride	< 41.7	41.7	
Methyl-tert-butyl ether	< 36.1	36.1	
N-Heptane	< 410	410	
N-Hexane	< 176	176	
o-Xylene	< 43.4	43.4	
Propylene	< 172	172	
Styrene	< 426	426	
Tetrachloroethene	< 3.19	3.19	
Tetrahydrofuran	< 295	295	
Toluene	< 3770	3770	
trans-1,2-Dichloroethene	< 39.6	39.6	
trans-1,3-Dichloropropene	< 4.54	4.54	
Trichlorethene	< 1.07	1.07	
Trichlorofluoromethane	< 562	562	
Vinyl Acetate	< 176	176	
Vinyl Bromide	< 0.44	0.44	
Vinyl Chloride	< 1.28	1.28	
4-bromofluorobenzene (surrogate)	94%		
Analysis Date/Time:	10-13-15/22:35		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6349 FORMER VOGUE CLEANERS
Client Project Manager: ROB HOVERMAN
EnvisionAir Project Number: 2015-573

Analytical Method: TO-15
Analytical Batch: 101315AIR

Client Sample ID: 6349-2562-OA
Envision Sample Number: 15-2148
Sample Matrix: AIR

Sample Collection START Date/Time: 10/7/15 8:50
Sample Collection END Date/Time: 10/8/15 8:15
Sample Received Date/Time: 10/12/15 11:45

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
4-Ethyltoluene	< 492	492	
4-Methyl-2-pentanone (MIBK)	< 2050	2050	
1,1,1-Trichloroethane	< 546	546	
1,1,1,2-Tetrachloroethane	< 0.34	0.34	1
1,1,2-Trichloroethane	< 0.21	0.21	1
1,1-Dichloroethane	< 4.05	4.05	
1,1-Dichloroethene	< 198	198	
1,2,4-Trichlorobenzene	< 0.74	0.74	
1,2,4-Trimethylbenzene	< 4.92	4.92	
1,2-dibromoethane (EDB)	< 0.03	0.03	1
1,2-Dichlorobenzene	< 60.1	60.1	
1,2-Dichloroethane	< 0.40	0.40	
1,2-Dichloropropane	< 0.46	0.46	
1,3,5-Trimethylbenzene	< 4.92	4.92	
1,3-Butadiene	< 0.22	0.22	
1,3-Dichlorobenzene	< 60.1	60.1	
1,4-Dichlorobenzene	< 0.60	0.60	
1,4-Dioxane	< 1.80	1.80	
2-Butanone (MEK)	< 2950	2950	
2-Hexanone	< 20.5	20.5	
Acetone	< 2380	2380	
Benzene	< 1.60	1.60	
Benzyl Chloride	< 0.41	0.41	1
Bromodichloromethane	< 0.54	0.54	1
Bromoform	< 10.3	10.3	
Bromomethane	< 3.88	3.88	
Carbon Disulfide	< 311	311	
Carbon Tetrachloride	< 0.63	0.63	
Chlorobenzene	< 23.0	23.0	
Chloroethane	< 13.2	13.2	



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<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
Chloroform	< 0.83	0.83	
Chloromethane	< 20.6	20.6	
cis-1,2-Dichloroethene	< 19.8	19.8	
cis-1,3-Dichloropropene	< 4.54	4.54	
Cyclohexane	< 5510	5510	
Dibromochloromethane	< 0.85	0.85	
Dichlorodifluoromethane	< 49.5	49.5	
Ethyl Acetate	< 1800	1800	
Ethylbenzene	< 8.68	8.68	
Hexachloro-1,3-butadiene	< 1.07	1.07	
Isooctane	< 467	467	
m,p-Xylene	< 43.4	43.4	
Methylene Chloride	< 41.7	41.7	
Methyl-tert-butyl ether	< 36.1	36.1	
N-Heptane	< 410	410	
N-Hexane	< 176	176	
o-Xylene	< 43.4	43.4	
Propylene	< 172	172	
Styrene	< 426	426	
Tetrachloroethene	< 3.19	3.19	
Tetrahydrofuran	< 295	295	
Toluene	< 3770	3770	
trans-1,2-Dichloroethene	< 39.6	39.6	
trans-1,3-Dichloropropene	< 4.54	4.54	
Trichlorethene	< 1.07	1.07	
Trichlorofluoromethane	< 562	562	
Vinyl Acetate	< 176	176	
Vinyl Bromide	< 0.44	0.44	
Vinyl Chloride	< 1.28	1.28	
4-bromofluorobenzene (surrogate)	94%		
Analysis Date/Time:	10-13-15/19:15		
Analyst Initials	tjg		



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Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number: 101315AIR

<u>Method Blank (MB):</u>	<u>MB Results (ppbv)</u>	<u>Reporting Limit (ppbv)</u>	<u>Flags</u>
4-Ethyltoluene	< 100	100	
4-Methyl-2-pentanone (MIBK)	< 500	500	
1,1,1-Trichloroethane	< 100	100	
1,1,2,2-Tetrachloroethane	< 0.049	0.049	1
1,1,2-Trichloroethane	< 0.038	0.038	1
1,1-Dichloroethane	< 1	1	
1,1-Dichloroethene	< 50	50	
1,2,4-Trichlorobenzene	< 0.1	0.1	
1,2,4-Trimethylbenzene	< 1	1	
1,2-dibromoethane (EDB)	< 0.0041	0.0041	1
1,2-Dichlorobenzene	< 10	10	
1,2-Dichloroethane	< 0.1	0.1	
1,2-Dichloropropane	< 0.1	0.1	
1,3,5-Trimethylbenzene	< 1	1	
1,3-Butadiene	< 0.1	0.1	
1,3-Dichlorobenzene	< 10	10	
1,4-Dichlorobenzene	< 0.1	0.1	
1,4-Dioxane	< 0.5	0.5	
2-Butanone (MEK)	< 1000	1000	
2-Hexanone	< 5	5	
Acetone	< 1000	1000	
Benzene	< 0.5	0.5	
Benzyl Chloride	< 0.08	0.08	1
Bromodichloromethane	< 0.08	0.08	1
Bromoform	< 1	1	
Bromomethane	< 1	1	
Carbon Disulfide	< 100	100	
Carbon Tetrachloride	< 0.1	0.1	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
Chloroform	< 0.17	0.17	
Chloromethane	< 10	10	
cis-1,2-Dichloroethene	< 5	5	
cis-1,3-Dichloropropene	< 1	1	
Cyclohexane	< 1600	1600	
Dibromochloromethane	< 0.1	0.1	
Dichlorodifluoromethane	< 10	10	
Ethyl Acetate	< 500	500	
Ethylbenzene	< 2	2	
Hexachloro-1,3-butadiene	< 0.1	0.1	
Isooctane	< 100	100	
m,p-Xylene	< 10	10	
Methylene Chloride	< 12	12	
Methyl-tert-butyl ether	< 10	10	
N-Heptane	< 100	100	
N-Hexane	< 50	50	
o-Xylene	< 10	10	
Propylene	< 100	100	
Styrene	< 100	100	
Tetrachloroethene	< 0.47	0.47	
Tetrahydrofuran	< 100	100	



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Analytical Report

<u>Method Blank (MB):</u>	<u>MB Results (ppbv)</u>	<u>Reporting Limit (ppbv)</u>	<u>Flags</u>			
Toluene	< 1000	1000				
trans-1,2-Dichloroethene	< 10	10				
trans-1,3-Dichloropropene	< 1	1				
Trichlorethene	< 0.2	0.2				
Trichlorofluoromethane	< 100	100				
Vinyl Acetate	< 50	50				
Vinyl Bromide	< 0.1	0.1				
Vinyl Chloride	< 0.5	0.5				
4-bromofluorobenzene (surrogate)	91%					
Analysis Date/Time:	10-13-15/17:57					
Analyst Initials	tjg					

<u>LCS/LCSD</u>	<u>LCS Results (ppbv)</u>	<u>LCSD Results (ppbv)</u>	<u>LCS/D Conc(ppbv)</u>	<u>LCS Rec.</u>	<u>LCSD Rec.</u>	<u>RPD</u>	<u>Flag</u>
Propylene	9.81	9.56	10	98%	96%	2.6%	
Dichlorodifluoromethane	8.7	8.6	10	87%	86%	1.2%	
Chloromethane	11.1	10.7	10	111%	107%	3.7%	
Vinyl Chloride	11.3	11.2	10	113%	112%	0.9%	
1,3-Butadiene	8.99	8.85	10	90%	89%	1.6%	
Bromomethane	10.4	10.2	10	104%	102%	1.9%	
Chloroethane	10.9	10.8	10	109%	108%	0.9%	
Vinyl Bromide	11.1	9.71	10	111%	97%	13.4%	
Trichlorofluoromethane	8.57	8.45	10	86%	85%	1.4%	
Acetone	9.72	9.55	10	97%	96%	1.8%	
1,1-Dichloroethene	10.3	10.1	10	103%	101%	2.0%	
Methylene Chloride	10.4	10.3	10	104%	103%	1.0%	
Carbon Disulfide	11.9	11.8	10	119%	118%	0.8%	
trans-1,2-Dichloroethene	11.3	11.1	10	113%	111%	1.8%	
Methyl-tert-butyl ether	9.89	9.72	10	99%	97%	1.7%	
1,1-Dichloroethane	11.2	10.8	10	112%	108%	3.6%	
Vinyl Acetate	11.1	10.9	10	111%	109%	1.8%	
N-Hexane	11.9	11.8	10	119%	118%	0.8%	
2-Butanone (MEK)	12.1	10.8	10	121%	108%	11.4%	
cis-1,2-Dichloroethene	10.6	10.7	10	106%	107%	0.9%	
Ethyl Acetate	10.8	11.8	10	108%	118%	8.8%	
Chloroform	9.39	9.24	10	94%	92%	1.6%	
Tetrahydrofuran	10.4	10.8	10	104%	108%	3.8%	
1,2-Dichloroethane	8.74	8.34	10	87%	83%	4.7%	
1,1,1-Trichloroethane	8.77	8.35	10	88%	84%	4.9%	
Carbon Tetrachloride	9.16	8.46	10	92%	85%	7.9%	
Benzene	10.2	10.9	10	102%	109%	6.6%	
Cyclohexane	10.4	11.1	10	104%	111%	6.5%	
1,2-Dichloropropane	10.5	11.1	10	105%	111%	5.6%	
Trichlorethene	8.65	9.14	10	87%	91%	5.5%	
Bromodichloromethane	8.64	9.09	10	86%	91%	5.1%	
1,4-Dioxane	9.86	9.67	10	99%	97%	1.9%	
Isooctane	9.46	10.2	10	95%	102%	7.5%	
N-Heptane	10.6	11.3	10	106%	113%	6.4%	
cis-1,3-Dichloropropene	9.18	9.77	10	92%	98%	6.2%	
4-Methyl-2-pentanone (MIBK)	10.4	11.1	10	104%	111%	6.5%	
trans-1,3-Dichloropropene	8.9	9.37	10	89%	94%	5.1%	
1,1,2-Trichloroethane	9.03	9.49	10	90%	95%	5.0%	
Toluene	8.46	8.97	10	85%	90%	5.9%	
2-Hexanone	9.84	10.5	10	98%	105%	6.5%	
Dibromochloromethane	10.2	10.7	10	102%	107%	4.8%	
1,2-dibromoethane (EDB)	10.4	10.8	10	104%	108%	3.8%	
Tetrachloroethene	9.51	10.1	10	95%	101%	6.0%	
Chlorobenzene	9.73	10.1	10	97%	101%	3.7%	
Ethylbenzene	8.96	9.44	10	90%	94%	5.2%	
m,p-Xylene	18.5	19.6	20	93%	98%	5.8%	
Bromoform	10.3	10.8	10	103%	108%	4.7%	



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Analytical Report

<u>LCS/LCSD</u>	<u>LCS Results (ppbv)</u>	<u>LCSD Results (ppbv)</u>	<u>LCS/D</u> <u>Conc(ppbv)</u>	<u>LCS</u> <u>Rec.</u>	<u>LCSD</u> <u>Rec.</u>	<u>RPD</u>	<u>Flag</u>
Styrene	9.73	10.3	10	97%	103%	5.7%	
1,1,2,2-Tetrachloroethane	9.83	10.3	10	98%	103%	4.7%	
o-Xylene	9.81	10.3	10	98%	103%	4.9%	
4-Ethyltoluene	8.06	8.62	10	81%	86%	6.7%	
1,3,5-Trimethylbenzene	8.23	8.61	10	82%	86%	4.5%	
1,2,4-Trimethylbenzene	8.29	8.74	10	83%	87%	5.3%	
1,3-Dichlorobenzene	8.89	9.35	10	89%	94%	5.0%	
Benzyl Chloride	10.9	11.5	10	109%	115%	5.4%	
1,4-Dichlorobenzene	9.61	10.1	10	96%	101%	5.0%	
1,2-Dichlorobenzene	9.01	9.44	10	90%	94%	4.7%	
1,2,4-Trichlorobenzene	9.1	9.48	10	91%	95%	4.1%	
Hexachloro-1,3-butadiene	9.16	9.73	10	92%	97%	6.0%	
4-bromofluorobenzene (surrogate)	103%	108%					
Analysis Date/Time:	10-13-15/16:36	10-13-15/17:17					
Analyst Initials	tjg	tjg					



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<u>Flag Number</u>	<u>Comments</u>
1	Reporting limit is supported by MDL. TJG

20
10/15

CHAIN OF CUSTODY RECORD

EnvisionAir | 1441 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-0885 | Fax: (317) 351-0882

Client: <u>EnviroForensics</u>	P.O. Number: <u>2015873</u>
Report <u>NIG W25390 Steve Ridge</u> Address: <u>Waukegan WI 53188</u>	Project Name or Number: <u>6349</u> <u>Forensic Vapor Milwaukee</u>
Report To: <u>F. Heinsman / K. Heinsstead</u>	Sampled by: <u>K. Heinsstead</u>
Phone: <u>317-972-7870</u>	QA/QC Required: (circle if applicable) Level III Level IV
Invoice Address:	Reporting Units needed: (circle) <u>ug/m³</u> mg/m ³ PPBV PPMV
Desired TAT: (Please Circle One) 1 day 2 days 3 days <u>5 (5 bus. days)</u>	Media type: 1LC = 1 Liter Canister 6LC = 6 Liter Canister TB = Tedlar Bag TD = Thermal Desorption Tube

REQUESTED PARAMETERS			
TO-15 Full List	TO-15 Short List		



Sampling Type:
Soil-Gas:
Sub-Slab:
Indoor-Air:

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Canister Pressure / Vacuum

Air Sample ID	Media Type (see code above)	Coll. Date (Grab/Comp Start)	Coll. Time (Grab/Comp Start)	Coll. Date (Comp. End)	Coll. Time (Comp. End)					Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
6349-2562-IA-1-1	6LL	10-7-15	825	10-8-15	800	X				91566	07462	-30	-8	-8	15-2143
6349-2562-IA-1-2	6LL	10-7-15	831	10-8-15	803	X				4653	05713	-29	-6	-6	15-2144
6349-2562-IA-2	6LL	10-7-15	836	10-8-15	805	X				91444	04653	-29	-7	-7	15-2145
6349-2562-IA-B-1	6LL	10-7-15	839	10-8-15	808	X				80636	03062	-28	-6	-6	15-2146
6349-2562-IA-B-2	6LL	10-7-15	843	10-8-15	811	X				16352	07446	-28	-5	-5	15-2147
6349-2562-OA	6LL	10-7-15	850	10-8-15	815	X				80639	07693	-29	-8	-8	15-2148

Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
<u>[Signature]</u>	10-9-15		<u>Fed Ex</u> <u>Stanley A. Hunsicker</u>	10-9-15	
				10/12/15	1145



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Mr. Rob Hoverman
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

October 22, 2015

ENVision Project Number: 2015-575
Client Project Name: 6349 – Former Vogue Cleaners

Dear Mr. Hoverman,

Please find the attached analytical report for the samples received October 12, 2015. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

A handwritten signature in cursive script that reads "David Norris".

David Norris

Client Services Manager
EnvisionAir



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 Fax: 317-351-0882
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Client Name: ENVIROFORENSICS
Project ID: 6349 FORMER VOGUE CLEANERS
Client Project Manager: ROB HOVERMAN
EnvisionAir Project Number: 2015-575

Sample Summary

Canister Pressure / Vacuum

<u>Laboratory Sample Number:</u>	<u>Sample Description:</u>	<u>Matrix:</u>	<u>START</u>		<u>End Date:</u>	<u>End Time:</u>	<u>Date:</u>	<u>Time:</u>	<u>Canister Pressure / Vacuum</u>		<u>Lab:</u>
			<u>Collected:</u>	<u>Collected:</u>					<u>Initial Field</u>	<u>Final Field</u>	
			<u>Date</u>	<u>Time</u>				<u>(in. Hg)</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>	
15-2153	6349-2562-SSV-1	A	10/8/15	8:40	10/8/15	8:46	10/12/15	11:45	-29	-2	-2
15-2154	6349-2562-SSV-2	A	10/8/15	8:50	10/8/15	8:55	10/12/15	11:45	-29	-2	-2
15-2155	6349-2562-SSV-3	A	10/8/15	9:06	10/8/15	9:13	10/12/15	11:45	-29	-2	-2



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Client Name: ENVIROFORENSICS
Project ID: 6349 FORMER VOGUE CLEANERS
Client Project Manager: ROB HOVERMAN
EnvisionAir Project Number: 2015-575

Analytical Method: TO-15
Analytical Batch: 101915AIR

Client Sample ID: 6349-2562-SSV-1
Envision Sample Number: 15-2153
Sample Matrix: AIR
Sample Collection START Date/Time: 10/8/15 8:40
Sample Collection END Date/Time: 10/8/15 8:46
Sample Received Date/Time: 10/12/15 11:45

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
4-Ethyltoluene	< 492	492	
4-Methyl-2-pentanone (MIBK)	< 2050	2050	
1,1,1-Trichloroethane	< 546	546	
1,1,1,2-Tetrachloroethane	< 0.34	0.34	1
1,1,2-Trichloroethane	< 0.21	0.21	1
1,1-Dichloroethane	< 4.05	4.05	
1,1-Dichloroethene	< 198	198	
1,2,4-Trichlorobenzene	< 0.74	0.74	
1,2,4-Trimethylbenzene	< 4.92	4.92	
1,2-dibromoethane (EDB)	< 0.03	0.03	1
1,2-Dichlorobenzene	< 60.1	60.1	
1,2-Dichloroethane	< 0.40	0.40	
1,2-Dichloropropane	< 0.46	0.46	
1,3,5-Trimethylbenzene	< 4.92	4.92	
1,3-Butadiene	< 0.22	0.22	
1,3-Dichlorobenzene	< 60.1	60.1	
1,4-Dichlorobenzene	< 0.60	0.60	
1,4-Dioxane	< 1.80	1.80	
2-Butanone (MEK)	< 2950	2950	
2-Hexanone	< 20.5	20.5	
Acetone	< 2380	2380	
Benzene	< 1.60	1.60	
Benzyl Chloride	< 0.41	0.41	1
Bromodichloromethane	< 0.54	0.54	1
Bromoform	< 10.3	10.3	
Bromomethane	< 3.88	3.88	
Carbon Disulfide	< 311	311	
Carbon Tetrachloride	< 0.63	0.63	
Chlorobenzene	< 23.0	23.0	
Chloroethane	< 13.2	13.2	



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<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
Chloroform	< 0.83	0.83	
Chloromethane	< 20.6	20.6	
cis-1,2-Dichloroethene	< 19.8	19.8	
cis-1,3-Dichloropropene	< 4.54	4.54	
Cyclohexane	< 5510	5510	
Dibromochloromethane	< 0.85	0.85	
Dichlorodifluoromethane	< 49.5	49.5	
Ethyl Acetate	< 1800	1800	
Ethylbenzene	< 8.68	8.68	
Hexachloro-1,3-butadiene	< 1.07	1.07	
Isooctane	< 467	467	
m,p-Xylene	< 43.4	43.4	
Methylene Chloride	< 41.7	41.7	
Methyl-tert-butyl ether	< 36.1	36.1	
N-Heptane	< 410	410	
N-Hexane	< 176	176	
o-Xylene	< 43.4	43.4	
Propylene	< 172	172	
Styrene	< 426	426	
Tetrachloroethene	4.68	3.19	
Tetrahydrofuran	< 295	295	
Toluene	< 3770	3770	
trans-1,2-Dichloroethene	< 39.6	39.6	
trans-1,3-Dichloropropene	< 4.54	4.54	
Trichlorethene	< 1.07	1.07	
Trichlorofluoromethane	< 562	562	
Vinyl Acetate	< 176	176	
Vinyl Bromide	< 0.44	0.44	
Vinyl Chloride	< 1.28	1.28	
4-bromofluorobenzene (surrogate)	98%		
Analysis Date/Time:	10-20-15/05:22		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6349 FORMER VOGUE CLEANERS
Client Project Manager: ROB HOVERMAN
EnvisionAir Project Number: 2015-575

Analytical Method: TO-15
Analytical Batch: 101915AIR

Client Sample ID: 6349-2562-SSV-2
Envision Sample Number: 15-2154
Sample Matrix: AIR
Sample Collection START Date/Time: 10/8/15 8:50
Sample Collection END Date/Time: 10/8/15 8:55
Sample Received Date/Time: 10/12/15 11:45

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
4-Ethyltoluene	< 492	492	
4-Methyl-2-pentanone (MIBK)	< 2050	2050	
1,1,1-Trichloroethane	< 546	546	
1,1,1,2-Tetrachloroethane	< 0.34	0.34	1
1,1,2-Trichloroethane	< 0.21	0.21	1
1,1-Dichloroethane	< 4.05	4.05	
1,1-Dichloroethene	< 198	198	
1,2,4-Trichlorobenzene	< 0.74	0.74	
1,2,4-Trimethylbenzene	< 4.92	4.92	
1,2-dibromoethane (EDB)	< 0.03	0.03	1
1,2-Dichlorobenzene	< 60.1	60.1	
1,2-Dichloroethane	< 0.40	0.40	
1,2-Dichloropropane	< 0.46	0.46	
1,3,5-Trimethylbenzene	< 4.92	4.92	
1,3-Butadiene	< 0.22	0.22	
1,3-Dichlorobenzene	< 60.1	60.1	
1,4-Dichlorobenzene	< 0.60	0.60	
1,4-Dioxane	< 1.80	1.80	
2-Butanone (MEK)	< 2950	2950	
2-Hexanone	< 20.5	20.5	
Acetone	< 2380	2380	
Benzene	< 1.60	1.60	
Benzyl Chloride	< 0.41	0.41	1
Bromodichloromethane	< 0.54	0.54	1
Bromoform	< 10.3	10.3	
Bromomethane	< 3.88	3.88	
Carbon Disulfide	< 311	311	
Carbon Tetrachloride	< 0.63	0.63	
Chlorobenzene	< 23.0	23.0	
Chloroethane	< 13.2	13.2	



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<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
Chloroform	< 0.83	0.83	
Chloromethane	< 20.6	20.6	
cis-1,2-Dichloroethene	< 19.8	19.8	
cis-1,3-Dichloropropene	< 4.54	4.54	
Cyclohexane	< 5510	5510	
Dibromochloromethane	< 0.85	0.85	
Dichlorodifluoromethane	< 49.5	49.5	
Ethyl Acetate	< 1800	1800	
Ethylbenzene	< 8.68	8.68	
Hexachloro-1,3-butadiene	< 1.07	1.07	
Isooctane	< 467	467	
m,p-Xylene	< 43.4	43.4	
Methylene Chloride	< 41.7	41.7	
Methyl-tert-butyl ether	< 36.1	36.1	
N-Heptane	< 410	410	
N-Hexane	< 176	176	
o-Xylene	< 43.4	43.4	
Propylene	< 172	172	
Styrene	< 426	426	
Tetrachloroethene	14.4	3.19	
Tetrahydrofuran	< 295	295	
Toluene	< 3770	3770	
trans-1,2-Dichloroethene	< 39.6	39.6	
trans-1,3-Dichloropropene	< 4.54	4.54	
Trichlorethene	< 1.07	1.07	
Trichlorofluoromethane	< 562	562	
Vinyl Acetate	< 176	176	
Vinyl Bromide	< 0.44	0.44	
Vinyl Chloride	< 1.28	1.28	
4-bromofluorobenzene (surrogate)	97%		
Analysis Date/Time:	10-20-15/06:02		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6349 FORMER VOGUE CLEANERS
Client Project Manager: ROB HOVERMAN
EnvisionAir Project Number: 2015-575

Analytical Method: TO-15
Analytical Batch: 101915AIR

Client Sample ID: 6349-2562-SSV-3
Envision Sample Number: 15-2155
Sample Matrix: AIR

Sample Collection START Date/Time: 10/8/15 9:06
Sample Collection END Date/Time: 10/8/15 9:13
Sample Received Date/Time: 10/12/15 11:45

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
4-Ethyltoluene	< 492	492	
4-Methyl-2-pentanone (MIBK)	< 2050	2050	
1,1,1-Trichloroethane	< 546	546	
1,1,1,2-Tetrachloroethane	< 0.34	0.34	1
1,1,2-Trichloroethane	< 0.21	0.21	1
1,1-Dichloroethane	< 4.05	4.05	
1,1-Dichloroethene	< 198	198	
1,2,4-Trichlorobenzene	< 0.74	0.74	
1,2,4-Trimethylbenzene	< 4.92	4.92	
1,2-dibromoethane (EDB)	< 0.03	0.03	1
1,2-Dichlorobenzene	< 60.1	60.1	
1,2-Dichloroethane	< 0.40	0.40	
1,2-Dichloropropane	< 0.46	0.46	
1,3,5-Trimethylbenzene	< 4.92	4.92	
1,3-Butadiene	< 0.22	0.22	
1,3-Dichlorobenzene	< 60.1	60.1	
1,4-Dichlorobenzene	< 0.60	0.60	
1,4-Dioxane	< 1.80	1.80	
2-Butanone (MEK)	< 2950	2950	
2-Hexanone	< 20.5	20.5	
Acetone	< 2380	2380	
Benzene	< 1.60	1.60	
Benzyl Chloride	< 0.41	0.41	1
Bromodichloromethane	< 0.54	0.54	1
Bromoform	< 10.3	10.3	
Bromomethane	< 3.88	3.88	
Carbon Disulfide	< 311	311	
Carbon Tetrachloride	< 0.63	0.63	
Chlorobenzene	< 23.0	23.0	
Chloroethane	< 13.2	13.2	



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<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
Chloroform	< 0.83	0.83	
Chloromethane	< 20.6	20.6	
cis-1,2-Dichloroethene	< 19.8	19.8	
cis-1,3-Dichloropropene	< 4.54	4.54	
Cyclohexane	< 5510	5510	
Dibromochloromethane	< 0.85	0.85	
Dichlorodifluoromethane	< 49.5	49.5	
Ethyl Acetate	< 1800	1800	
Ethylbenzene	< 8.68	8.68	
Hexachloro-1,3-butadiene	< 1.07	1.07	
Isooctane	< 467	467	
m,p-Xylene	< 43.4	43.4	
Methylene Chloride	< 41.7	41.7	
Methyl-tert-butyl ether	< 36.1	36.1	
N-Heptane	< 410	410	
N-Hexane	< 176	176	
o-Xylene	< 43.4	43.4	
Propylene	< 172	172	
Styrene	< 426	426	
Tetrachloroethene	< 3.19	3.19	
Tetrahydrofuran	< 295	295	
Toluene	< 3770	3770	
trans-1,2-Dichloroethene	< 39.6	39.6	
trans-1,3-Dichloropropene	< 4.54	4.54	
Trichlorethene	< 1.07	1.07	
Trichlorofluoromethane	< 562	562	
Vinyl Acetate	< 176	176	
Vinyl Bromide	< 0.44	0.44	
Vinyl Chloride	< 1.28	1.28	
4-bromofluorobenzene (surrogate)	97%		
Analysis Date/Time:	10-20-15/06:42		
Analyst Initials	tjg		



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Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number: 101915AIR

<u>Method Blank (MB):</u>	<u>MB Results (ppbv)</u>	<u>Reporting Limit (ppbv)</u>	<u>Flags</u>
4-Ethyltoluene	< 100	100	
4-Methyl-2-pentanone (MIBK)	< 500	500	
1,1,1-Trichloroethane	< 100	100	
1,1,2,2-Tetrachloroethane	< 0.049	0.049	1
1,1,2-Trichloroethane	< 0.038	0.038	1
1,1-Dichloroethane	< 1	1	
1,1-Dichloroethene	< 50	50	
1,2,4-Trichlorobenzene	< 0.1	0.1	
1,2,4-Trimethylbenzene	< 1	1	
1,2-dibromoethane (EDB)	< 0.0041	0.0041	1
1,2-Dichlorobenzene	< 10	10	
1,2-Dichloroethane	< 0.1	0.1	
1,2-Dichloropropane	< 0.1	0.1	
1,3,5-Trimethylbenzene	< 1	1	
1,3-Butadiene	< 0.1	0.1	
1,3-Dichlorobenzene	< 10	10	
1,4-Dichlorobenzene	< 0.1	0.1	
1,4-Dioxane	< 0.5	0.5	
2-Butanone (MEK)	< 1000	1000	
2-Hexanone	< 5	5	
Acetone	< 1000	1000	
Benzene	< 0.5	0.5	
Benzyl Chloride	< 0.08	0.08	1
Bromodichloromethane	< 0.08	0.08	1
Bromoform	< 1	1	
Bromomethane	< 1	1	
Carbon Disulfide	< 100	100	
Carbon Tetrachloride	< 0.1	0.1	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
Chloroform	< 0.17	0.17	
Chloromethane	< 10	10	
cis-1,2-Dichloroethene	< 5	5	
cis-1,3-Dichloropropene	< 1	1	
Cyclohexane	< 1600	1600	
Dibromochloromethane	< 0.1	0.1	
Dichlorodifluoromethane	< 10	10	
Ethyl Acetate	< 500	500	
Ethylbenzene	< 2	2	
Hexachloro-1,3-butadiene	< 0.1	0.1	
Isooctane	< 100	100	
m,p-Xylene	< 10	10	
Methylene Chloride	< 12	12	
Methyl-tert-butyl ether	< 10	10	
N-Heptane	< 100	100	
N-Hexane	< 50	50	
o-Xylene	< 10	10	
Propylene	< 100	100	
Styrene	< 100	100	
Tetrachloroethene	< 0.47	0.47	
Tetrahydrofuran	< 100	100	



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Analytical Report

<u>Method Blank (MB):</u>	<u>MB Results (ppbv)</u>	<u>Reporting Limit (ppbv)</u>	<u>Flags</u>
Toluene	< 1000	1000	
trans-1,2-Dichloroethene	< 10	10	
trans-1,3-Dichloropropene	< 1	1	
Trichlorethene	< 0.2	0.2	
Trichlorofluoromethane	< 100	100	
Vinyl Acetate	< 50	50	
Vinyl Bromide	< 0.1	0.1	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	99%		
Analysis Date/Time:	10-19-15/13:00		
Analyst Initials	tjg		

<u>LCS/LCSD</u>	<u>LCS Results (ppbv)</u>	<u>LCSD Results (ppbv)</u>	<u>LCS/D Conc(ppbv)</u>	<u>LCS Rec.</u>	<u>LCSD Rec.</u>	<u>RPD</u>	<u>Flag</u>
Propylene	9.27	9.94	10	93%	99%	7.0%	
Dichlorodifluoromethane	8.49	8.58	10	85%	86%	1.1%	
Chloromethane	8.91	8.92	10	89%	89%	0.1%	
Vinyl Chloride	9.5	9.87	10	95%	99%	3.8%	
1,3-Butadiene	8.43	8.95	10	84%	90%	6.0%	
Bromomethane	9.74	10.3	10	97%	103%	5.6%	
Chloroethane	9.59	10.3	10	96%	103%	7.1%	
Vinyl Bromide	9.89	9.77	10	99%	98%	1.2%	
Trichlorofluoromethane	10.4	10.8	10	104%	108%	3.8%	
Acetone	9.29	9.62	10	93%	96%	3.5%	
1,1-Dichloroethene	9.86	10.4	10	99%	104%	5.3%	
Methylene Chloride	8.98	9.66	10	90%	97%	7.3%	
Carbon Disulfide	9.88	10.5	10	99%	105%	6.1%	
trans-1,2-Dichloroethene	10.1	10.6	10	101%	106%	4.8%	
Methyl-tert-butyl ether	9.97	10.4	10	100%	104%	4.2%	
1,1-Dichloroethane	9.54	10.3	10	95%	103%	7.7%	
Vinyl Acetate	9.12	9.66	10	91%	97%	5.8%	
N-Hexane	8.89	9.44	10	89%	94%	6.0%	
2-Butanone (MEK)	9.01	9.73	10	90%	97%	7.7%	
cis-1,2-Dichloroethene	9.64	10.4	10	96%	104%	7.6%	
Ethyl Acetate	8.91	9.63	10	89%	96%	7.8%	
Chloroform	9.93	10.5	10	99%	105%	5.6%	
Tetrahydrofuran	9.24	9.96	10	92%	100%	7.5%	
1,2-Dichloroethane	10.5	10.9	10	105%	109%	3.7%	
1,1,1-Trichloroethane	10.2	10.6	10	102%	106%	3.8%	
Carbon Tetrachloride	10.5	10.9	10	105%	109%	3.7%	
Benzene	9.52	10	10	95%	100%	4.9%	
Cyclohexane	8.34	8.8	10	83%	88%	5.4%	
1,2-Dichloropropane	9.27	9.84	10	93%	98%	6.0%	
Trichlorethene	9.64	10.1	10	96%	101%	4.7%	
Bromodichloromethane	10.2	10.5	10	102%	105%	2.9%	
1,4-Dioxane	8.97	10.6	10	90%	106%	16.7%	
Isooctane	8.76	9.36	10	88%	94%	6.6%	
N-Heptane	9.28	10	10	93%	100%	7.5%	
cis-1,3-Dichloropropene	9.69	10.1	10	97%	101%	4.1%	
4-Methyl-2-pentanone (MIBK)	9.02	9.68	10	90%	97%	7.1%	
trans-1,3-Dichloropropene	9.66	10	10	97%	100%	3.5%	
1,1,2-Trichloroethane	9.56	10.1	10	96%	101%	5.5%	
Toluene	9.18	9.63	10	92%	96%	4.8%	
2-Hexanone	8.44	9.09	10	84%	91%	7.4%	
Dibromochloromethane	10.8	11.1	10	108%	111%	2.7%	
1,2-dibromoethane (EDB)	9.92	10.3	10	99%	103%	3.8%	
Tetrachloroethene	10.3	10.5	10	103%	105%	1.9%	
Chlorobenzene	9.63	10	10	96%	100%	3.8%	
Ethylbenzene	9.2	9.52	10	92%	95%	3.4%	
m,p-Xylene	18.6	19.1	20	93%	96%	2.7%	
Bromoform	11.1	11.3	10	111%	113%	1.8%	



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Analytical Report

<u>LCS/LCSD</u>	<u>LCS Results (ppbv)</u>	<u>LCSD Results (ppbv)</u>	<u>LCS/D</u>	<u>LCS</u>	<u>LCSD</u>	<u>RPD</u>	<u>Flag</u>
			<u>Conc(ppbv)</u>	<u>Rec.</u>	<u>Rec.</u>		
Styrene	9.3	9.68	10	93%	97%	4.0%	
1,1,2,2-Tetrachloroethane	9.23	9.51	10	92%	95%	3.0%	
o-Xylene	9.93	10.3	10	99%	103%	3.7%	
4-Ethyltoluene	8.38	8.59	10	84%	86%	2.5%	
1,3,5-Trimethylbenzene	8.9	9.11	10	89%	91%	2.3%	
1,2,4-Trimethylbenzene	8.9	9.05	10	89%	91%	1.7%	
1,3-Dichlorobenzene	8.75	8.95	10	88%	90%	2.3%	
Benzyl Chloride	9.22	9.42	10	92%	94%	2.1%	
1,4-Dichlorobenzene	8.84	8.93	10	88%	89%	1.0%	
1,2-Dichlorobenzene	8.89	9.21	10	89%	92%	3.5%	
1,2,4-Trichlorobenzene	8.55	8.78	10	86%	88%	2.7%	
Hexachloro-1,3-butadiene	9.58	9.9	10	96%	99%	3.3%	
4-bromofluorobenzene (surrogate)	100%	100%					
Analysis Date/Time:	10-19-15/11:35	10-19-15/12:17					
Analyst Initials	tjg	tjg					



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<u>Flag Number</u>	<u>Comments</u>
1	Reporting limit is supported by MDL. TJG



October 26, 2015

David & Cynthia Drakulic
7525 West Clarke Street
Wauwatosa, WI 53213

**Subject: Environmental Investigation Sampling Results
BRRTS#: 02-30-287150**

Dear Mr. and Mrs. Drakulic:

In accordance with the executed Agreement to Provide Access for Sampling Activities, and in accordance with Wisconsin Department of Natural Resources (WDNR) regulation NR 716.14, Environmental Forensic Investigations, Inc. (EnviroForensics) is providing the results of environmental samples collected from your property located at 7525 West Clarke Street in Wauwatosa, Wisconsin on October 7 and October 8, 2015. The sampling activities are part of an environmental investigation being performed for the former Vogue Cleaners (Vogue) facility located at 2578 N. Wauwatosa Avenue, Wauwatosa Wisconsin at the direction of the WDNR pursuant to the authority granted to it under State and Federal law. The chemicals of concern for the investigation are the dry cleaning solvent tetrachloroethene (PCE) and its associated breakdown products.

The Responsible Party is:

Vogue Cleaners
2578 North Wauwatosa Avenue
Wauwatosa, WI

Sampling Results

One (1) sub-slab vapor sample designated 6349-7525-SSV-1 was collected from the basement of your building. Indoor air samples, 6349-7525-IA-B, 6349-7525-IA-1 and 6349-7525-IA-2 were collected from the basement, first floor, and second floor, respectively. The sampling locations are depicted on the attached map. The laboratory report that relates to the vapor and air samples is also attached.

As shown on the summary table, sub-slab vapor sample SSV-1 contained PCE, but at a concentration below the residential vapor risk screening levels established by WDNR for use in evaluating sub-slab vapor concentrations. The chemicals of concern were not detected in the indoor air samples. At this time, there does not appear to be a vapor intrusion risk within your home.

We do not recommend further testing at this time. If you have any questions or concerns, please contact us at 262-510-0612 or by email at rhoverman@enviroforensics.com. The WDNR project manager, Gena Larson, can be reached at 608-261-5404. We greatly appreciate your help and patience with this matter.

Sincerely,
Environmental Forensic Investigations, Inc.

A handwritten signature in blue ink, appearing to read "K. Heimstead".

Kyle Heimstead
Staff Geologist

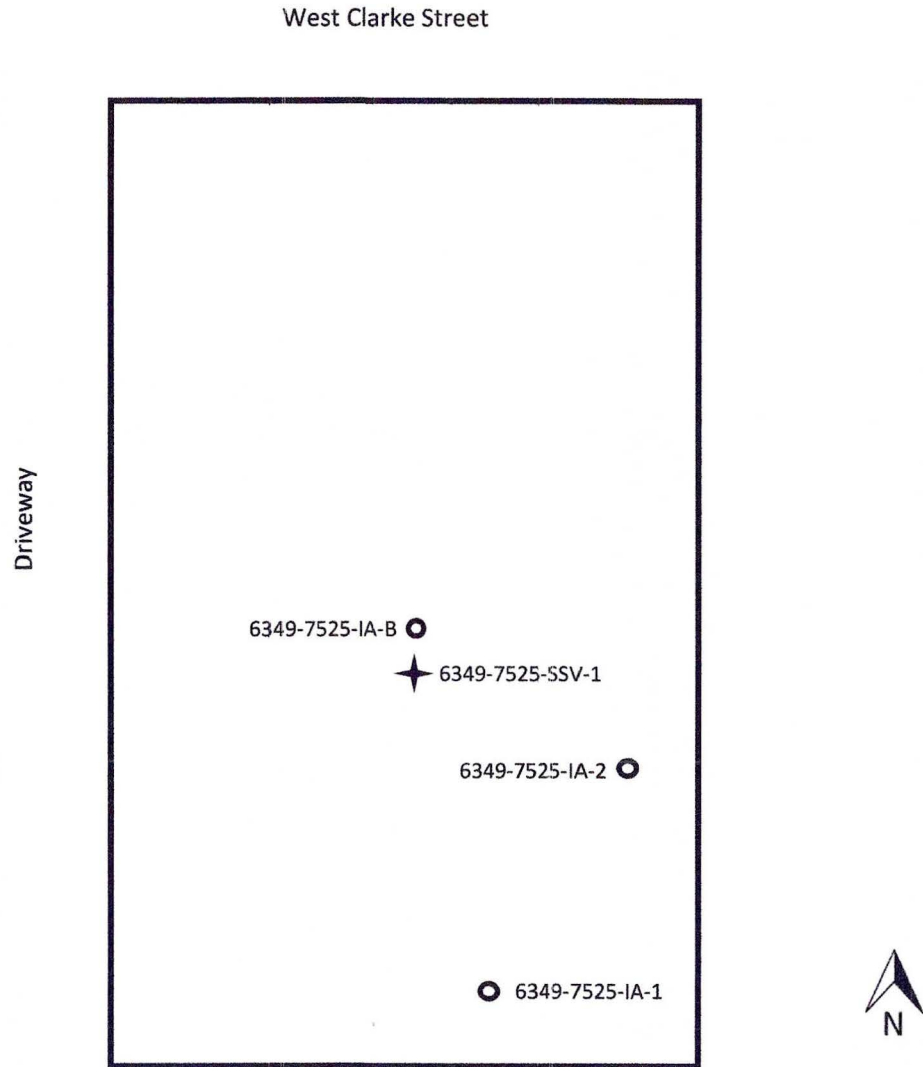
A handwritten signature in blue ink, appearing to read "Rob Hoverman".

Rob Hoverman, LPG
Senior Project Manager

Copy: Gena Larson, Wisconsin Department of Natural Resources

Attachments: Vapor Intrusion Sample Location Map
Summary of Vapor Intrusion Sampling Results
Laboratory Analytical Report

VAPOR INTRUSION SAMPLE LOCATIONS
7525 W. Clarke Street, Wauwatosa, Wisconsin



Legend

○ Indoor/Outdoor Air Sample

✦ Sub-Slab Vapor Sample

IA-B = Basement

IA-1 = 1st Floor

IA-2 = 2nd Floor

Table 1
Sub-Slab and Indoor/Outdoor Air Vapor Sample Analytical Results
Former Vogue Cleaners
Wauwatosa, Wisconsin

Sample Address	Sample Identification	Sample Location	Applicable Criteria	Date Sampled	Chlorinated VOCs				
					Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
INDOOR/ OUTDOOR AIR									
Preventative Action Limit					42	2.1	NE	NE	1.7
7525 Wauwatosa Ave	6349-7525-IA-B	Basement	Residential	10/8/2015	<3.19	<1.07	<19.8	<39.6	<1.28
7525 Wauwatosa Ave	6349-7525-IA-1	1st Floor	Residential	10/8/2015	<3.19	<1.07	<19.8	<39.6	<1.28
7525 Wauwatosa Ave	6349-7525-IA-2	2nd Floor	Residential	10/8/2015	<3.19	<1.07	<19.8	<39.6	<1.28
SUB-SLAB VAPOR									
Residential Vapor Risk Screening Level					1400	70	NE	NE	57
7525 Wauwatosa Ave	6349-7525-SSV-1	Central	Residential	10/8/2015	14.0	<1.07	<19.8	<39.6	<1.28

Notes:

Results reported in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)

Analysis performed by Envision Laboratories according to EPA Method TO-15

IA = Indoor Air

NE = Not Established

OA = Outdoor Air

SSV = Sub-Slab Vapor

Sub-slab vapor screening levels derived using the attenuation factor of 0.3.

Bolded values are above detection limits



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Mr. Rob Hoverman
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

October 22, 2015

ENVision Project Number: 2015-574
Client Project Name: 6349 – Former Vogue Cleaners

Dear Mr. Hoverman,

Please find the attached analytical report for the samples received October 12, 2015. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

A handwritten signature in cursive script that reads "David Norris".

David Norris

Client Services Manager
EnvisionAir



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Client Name: ENVIROFORENSICS
Project ID: 6349 FORMER VOGUE CLEANERS
Client Project Manager: ROB HOVERMAN
EnvisionAir Project Number: 2015-574

Sample Summary

Canister Pressure / Vacuum

<u>Laboratory Sample Number:</u>	<u>Sample Description:</u>	<u>Matrix:</u>	<u>START</u>		<u>End Date:</u>	<u>End Time:</u>	<u>Date:</u>	<u>Time:</u>	<u>Canister Pressure / Vacuum</u>		<u>Lab</u>
			<u>Collected:</u>	<u>Collected:</u>					<u>Initial Field</u>	<u>Final Field</u>	
			<u>Date:</u>	<u>Time:</u>	<u>Collected:</u>	<u>Collected:</u>	<u>Received:</u>	<u>Received:</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>
15-2149	6349-7525-IA-1	A	10/7/15	9:15	10/8/15	9:43	10/12/15	11:45	-28	-5	-5
15-2150	6349-7525-IA-2	A	10/7/15	9:10	10/8/15	9:40	10/12/15	11:45	-29	-6	-6
15-2151	6349-7525-IA-B	A	10/7/15	9:20	10/8/15	9:45	10/12/15	11:45	-29	-7	-7
15-2152	6349-7525-SSV-1	A	10/7/15	10:05	10/8/15	10:11	10/12/15	11:45	-29	-2	-2



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Client Name: ENVIROFORENSICS
Project ID: 6349 FORMER VOGUE CLEANERS
Client Project Manager: ROB HOVERMAN
EnvisionAir Project Number: 2015-574

Analytical Method: TO-15
Analytical Batch: 101315AIR

Client Sample ID: 6349-7525-IA-1
Envision Sample Number: 15-2149
Sample Matrix: AIR

Sample Collection START Date/Time: 10/7/15 9:15
Sample Collection END Date/Time: 10/8/15 9:43
Sample Received Date/Time: 10/12/15 11:45

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
4-Ethyltoluene	< 492	492	
4-Methyl-2-pentanone (MIBK)	< 2050	2050	
1,1,1-Trichloroethane	< 546	546	
1,1,1,2-Tetrachloroethane	< 0.34	0.34	1
1,1,2-Trichloroethane	< 0.21	0.21	1
1,1-Dichloroethane	< 4.05	4.05	
1,1-Dichloroethene	< 198	198	
1,2,4-Trichlorobenzene	< 0.74	0.74	
1,2,4-Trimethylbenzene	< 4.92	4.92	
1,2-dibromoethane (EDB)	< 0.03	0.03	1
1,2-Dichlorobenzene	< 60.1	60.1	
1,2-Dichloroethane	< 0.40	0.40	
1,2-Dichloropropane	< 0.46	0.46	
1,3,5-Trimethylbenzene	< 4.92	4.92	
1,3-Butadiene	< 0.22	0.22	
1,3-Dichlorobenzene	< 60.1	60.1	
1,4-Dichlorobenzene	< 0.60	0.60	
1,4-Dioxane	< 1.80	1.80	
2-Butanone (MEK)	< 2950	2950	
2-Hexanone	< 20.5	20.5	
Acetone	< 2380	2380	
Benzene	< 1.60	1.60	
Benzyl Chloride	< 0.41	0.41	1
Bromodichloromethane	< 0.54	0.54	1
Bromoform	< 10.3	10.3	
Bromomethane	< 3.88	3.88	
Carbon Disulfide	< 311	311	
Carbon Tetrachloride	< 0.63	0.63	
Chlorobenzene	< 23.0	23.0	
Chloroethane	< 13.2	13.2	



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<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
Chloroform	< 0.83	0.83	
Chloromethane	< 20.6	20.6	
cis-1,2-Dichloroethene	< 19.8	19.8	
cis-1,3-Dichloropropene	< 4.54	4.54	
Cyclohexane	< 5510	5510	
Dibromochloromethane	< 0.85	0.85	
Dichlorodifluoromethane	< 49.5	49.5	
Ethyl Acetate	< 1800	1800	
Ethylbenzene	< 8.68	8.68	
Hexachloro-1,3-butadiene	< 1.07	1.07	
Isooctane	< 467	467	
m,p-Xylene	< 43.4	43.4	
Methylene Chloride	< 41.7	41.7	
Methyl-tert-butyl ether	< 36.1	36.1	
N-Heptane	< 410	410	
N-Hexane	< 176	176	
o-Xylene	< 43.4	43.4	
Propylene	< 172	172	
Styrene	< 426	426	
Tetrachloroethene	< 3.19	3.19	
Tetrahydrofuran	< 295	295	
Toluene	< 3770	3770	
trans-1,2-Dichloroethene	< 39.6	39.6	
trans-1,3-Dichloropropene	< 4.54	4.54	
Trichlorethene	< 1.07	1.07	
Trichlorofluoromethane	< 562	562	
Vinyl Acetate	< 176	176	
Vinyl Bromide	< 0.44	0.44	
Vinyl Chloride	< 1.28	1.28	
4-bromofluorobenzene (surrogate)	95%		
Analysis Date/Time:	10-13-15/23:16		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6349 FORMER VOGUE CLEANERS
Client Project Manager: ROB HOVERMAN
EnvisionAir Project Number: 2015-574

Analytical Method: TO-15
Analytical Batch: 101315AIR

Client Sample ID: 6349-7525-IA-2

Sample Collection START Date/Time: 10/7/15 9:10

Envision Sample Number: 15-2150

Sample Collection END Date/Time: 10/8/15 9:40

Sample Matrix: AIR

Sample Received Date/Time: 10/12/15 11:45

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
4-Ethyltoluene	< 492	492	
4-Methyl-2-pentanone (MIBK)	< 2050	2050	
1,1,1-Trichloroethane	< 546	546	
1,1,1,2-Tetrachloroethane	< 0.34	0.34	1
1,1,2-Trichloroethane	< 0.21	0.21	1
1,1-Dichloroethane	< 4.05	4.05	
1,1-Dichloroethene	< 198	198	
1,2,4-Trichlorobenzene	< 0.74	0.74	
1,2,4-Trimethylbenzene	< 4.92	4.92	
1,2-dibromoethane (EDB)	< 0.03	0.03	1
1,2-Dichlorobenzene	< 60.1	60.1	
1,2-Dichloroethane	< 0.40	0.40	
1,2-Dichloropropane	< 0.46	0.46	
1,3,5-Trimethylbenzene	< 4.92	4.92	
1,3-Butadiene	< 0.22	0.22	
1,3-Dichlorobenzene	< 60.1	60.1	
1,4-Dichlorobenzene	< 0.60	0.60	
1,4-Dioxane	< 1.80	1.80	
2-Butanone (MEK)	< 2950	2950	
2-Hexanone	< 20.5	20.5	
Acetone	< 2380	2380	
Benzene	< 1.60	1.60	
Benzyl Chloride	< 0.41	0.41	1
Bromodichloromethane	< 0.54	0.54	1
Bromoform	< 10.3	10.3	
Bromomethane	< 3.88	3.88	
Carbon Disulfide	< 311	311	
Carbon Tetrachloride	< 0.63	0.63	
Chlorobenzene	< 23.0	23.0	
Chloroethane	< 13.2	13.2	



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<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
Chloroform	< 0.83	0.83	
Chloromethane	< 20.6	20.6	
cis-1,2-Dichloroethene	< 19.8	19.8	
cis-1,3-Dichloropropene	< 4.54	4.54	
Cyclohexane	< 5510	5510	
Dibromochloromethane	< 0.85	0.85	
Dichlorodifluoromethane	< 49.5	49.5	
Ethyl Acetate	< 1800	1800	
Ethylbenzene	< 8.68	8.68	
Hexachloro-1,3-butadiene	< 1.07	1.07	
Isooctane	< 467	467	
m,p-Xylene	< 43.4	43.4	
Methylene Chloride	< 41.7	41.7	
Methyl-tert-butyl ether	< 36.1	36.1	
N-Heptane	< 410	410	
N-Hexane	< 176	176	
o-Xylene	< 43.4	43.4	
Propylene	< 172	172	
Styrene	< 426	426	
Tetrachloroethene	< 3.19	3.19	
Tetrahydrofuran	< 295	295	
Toluene	< 3770	3770	
trans-1,2-Dichloroethene	< 39.6	39.6	
trans-1,3-Dichloropropene	< 4.54	4.54	
Trichlorethene	< 1.07	1.07	
Trichlorofluoromethane	< 562	562	
Vinyl Acetate	< 176	176	
Vinyl Bromide	< 0.44	0.44	
Vinyl Chloride	< 1.28	1.28	
4-bromofluorobenzene (surrogate)	96%		
Analysis Date/Time:	10-13-15/23:57		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6349 FORMER VOGUE CLEANERS
Client Project Manager: ROB HOVERMAN
EnvisionAir Project Number: 2015-574

Analytical Method: TO-15
Analytical Batch: 101315AIR

Client Sample ID: 6349-7525-IA-B
Envision Sample Number: 15-2151
Sample Matrix: AIR

Sample Collection START Date/Time: 10/7/15 9:20
Sample Collection END Date/Time: 10/8/15 9:45
Sample Received Date/Time: 10/12/15 11:45

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
4-Ethyltoluene	< 492	492	
4-Methyl-2-pentanone (MIBK)	< 2050	2050	
1,1,1-Trichloroethane	< 546	546	
1,1,1,2-Tetrachloroethane	< 0.34	0.34	1
1,1,2-Trichloroethane	< 0.21	0.21	1
1,1-Dichloroethane	< 4.05	4.05	
1,1-Dichloroethene	< 198	198	
1,2,4-Trichlorobenzene	< 0.74	0.74	
1,2,4-Trimethylbenzene	< 4.92	4.92	
1,2-dibromoethane (EDB)	< 0.03	0.03	1
1,2-Dichlorobenzene	< 60.1	60.1	
1,2-Dichloroethane	< 0.40	0.40	
1,2-Dichloropropane	< 0.46	0.46	
1,3,5-Trimethylbenzene	< 4.92	4.92	
1,3-Butadiene	< 0.22	0.22	
1,3-Dichlorobenzene	< 60.1	60.1	
1,4-Dichlorobenzene	< 0.60	0.60	
1,4-Dioxane	< 1.80	1.80	
2-Butanone (MEK)	< 2950	2950	
2-Hexanone	< 20.5	20.5	
Acetone	< 2380	2380	
Benzene	< 1.60	1.60	
Benzyl Chloride	< 0.41	0.41	1
Bromodichloromethane	< 0.54	0.54	1
Bromoform	< 10.3	10.3	
Bromomethane	< 3.88	3.88	
Carbon Disulfide	< 311	311	
Carbon Tetrachloride	< 0.63	0.63	
Chlorobenzene	< 23.0	23.0	
Chloroethane	< 13.2	13.2	



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<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
Chloroform	< 0.83	0.83	
Chloromethane	< 20.6	20.6	
cis-1,2-Dichloroethene	< 19.8	19.8	
cis-1,3-Dichloropropene	< 4.54	4.54	
Cyclohexane	< 5510	5510	
Dibromochloromethane	< 0.85	0.85	
Dichlorodifluoromethane	< 49.5	49.5	
Ethyl Acetate	< 1800	1800	
Ethylbenzene	< 8.68	8.68	
Hexachloro-1,3-butadiene	< 1.07	1.07	
Isooctane	< 467	467	
m,p-Xylene	< 43.4	43.4	
Methylene Chloride	< 41.7	41.7	
Methyl-tert-butyl ether	< 36.1	36.1	
N-Heptane	< 410	410	
N-Hexane	< 176	176	
o-Xylene	< 43.4	43.4	
Propylene	< 172	172	
Styrene	< 426	426	
Tetrachloroethene	< 3.19	3.19	
Tetrahydrofuran	< 295	295	
Toluene	< 3770	3770	
trans-1,2-Dichloroethene	< 39.6	39.6	
trans-1,3-Dichloropropene	< 4.54	4.54	
Trichloroethene	< 1.07	1.07	
Trichlorofluoromethane	< 562	562	
Vinyl Acetate	< 176	176	
Vinyl Bromide	< 0.44	0.44	
Vinyl Chloride	< 1.28	1.28	
4-bromofluorobenzene (surrogate)	97%		
Analysis Date/Time:	10-43-15/00:40		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6349 FORMER VOGUE CLEANERS
Client Project Manager: ROB HOVERMAN
EnvisionAir Project Number: 2015-574

Analytical Method: TO-15
Analytical Batch: 101915AIR

Client Sample ID: 6349-7525-SSV-1

Sample Collection START Date/Time: 10/8/15 10:05

Envision Sample Number: 15-2152

Sample Collection END Date/Time: 10/8/15 10:11

Sample Matrix: AIR

Sample Received Date/Time: 10/12/15 11:45

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
4-Ethyltoluene	< 492	492	
4-Methyl-2-pentanone (MIBK)	< 2050	2050	
1,1,1-Trichloroethane	< 546	546	
1,1,1,2-Tetrachloroethane	< 0.34	0.34	1
1,1,2-Trichloroethane	< 0.21	0.21	1
1,1-Dichloroethane	< 4.05	4.05	
1,1-Dichloroethene	< 198	198	
1,2,4-Trichlorobenzene	< 0.74	0.74	
1,2,4-Trimethylbenzene	< 4.92	4.92	
1,2-dibromoethane (EDB)	< 0.03	0.03	1
1,2-Dichlorobenzene	< 60.1	60.1	
1,2-Dichloroethane	< 0.40	0.40	
1,2-Dichloropropane	< 0.46	0.46	
1,3,5-Trimethylbenzene	< 4.92	4.92	
1,3-Butadiene	< 0.22	0.22	
1,3-Dichlorobenzene	< 60.1	60.1	
1,4-Dichlorobenzene	< 0.60	0.60	
1,4-Dioxane	< 1.80	1.80	
2-Butanone (MEK)	< 2950	2950	
2-Hexanone	< 20.5	20.5	
Acetone	< 2380	2380	
Benzene	< 1.60	1.60	
Benzyl Chloride	< 0.41	0.41	1
Bromodichloromethane	< 0.54	0.54	1
Bromoform	< 10.3	10.3	
Bromomethane	< 3.88	3.88	
Carbon Disulfide	< 311	311	
Carbon Tetrachloride	< 0.63	0.63	
Chlorobenzene	< 23.0	23.0	
Chloroethane	< 13.2	13.2	



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<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
Chloroform	< 0.83	0.83	
Chloromethane	< 20.6	20.6	
cis-1,2-Dichloroethene	< 19.8	19.8	
cis-1,3-Dichloropropene	< 4.54	4.54	
Cyclohexane	< 5510	5510	
Dibromochloromethane	< 0.85	0.85	
Dichlorodifluoromethane	< 49.5	49.5	
Ethyl Acetate	< 1800	1800	
Ethylbenzene	< 8.68	8.68	
Hexachloro-1,3-butadiene	< 1.07	1.07	
Isooctane	< 467	467	
m,p-Xylene	< 43.4	43.4	
Methylene Chloride	< 41.7	41.7	
Methyl-tert-butyl ether	< 36.1	36.1	
N-Heptane	< 410	410	
N-Hexane	< 176	176	
o-Xylene	< 43.4	43.4	
Propylene	< 172	172	
Styrene	< 426	426	
Tetrachloroethene	14.0	3.19	
Tetrahydrofuran	< 295	295	
Toluene	< 3770	3770	
trans-1,2-Dichloroethene	< 39.6	39.6	
trans-1,3-Dichloropropene	< 4.54	4.54	
Trichlorethene	< 1.07	1.07	
Trichlorofluoromethane	< 562	562	
Vinyl Acetate	< 176	176	
Vinyl Bromide	< 0.44	0.44	
Vinyl Chloride	< 1.28	1.28	
4-bromofluorobenzene (surrogate)	97%		
Analysis Date/Time:	10-20-15/04:43		
Analyst Initials	tjg		



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Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number: 101315AIR

<u>Method Blank (MB):</u>	<u>MB Results (ppbv)</u>	<u>Reporting Limit (ppbv)</u>	<u>Flags</u>
4-Ethyltoluene	< 100	100	
4-Methyl-2-pentanone (MIBK)	< 500	500	
1,1,1-Trichloroethane	< 100	100	
1,1,2,2-Tetrachloroethane	< 0.049	0.049	1
1,1,2-Trichloroethane	< 0.038	0.038	1
1,1-Dichloroethane	< 1	1	
1,1-Dichloroethene	< 50	50	
1,2,4-Trichlorobenzene	< 0.1	0.1	
1,2,4-Trimethylbenzene	< 1	1	
1,2-dibromoethane (EDB)	< 0.0041	0.0041	1
1,2-Dichlorobenzene	< 10	10	
1,2-Dichloroethane	< 0.1	0.1	
1,2-Dichloropropane	< 0.1	0.1	
1,3,5-Trimethylbenzene	< 1	1	
1,3-Butadiene	< 0.1	0.1	
1,3-Dichlorobenzene	< 10	10	
1,4-Dichlorobenzene	< 0.1	0.1	
1,4-Dioxane	< 0.5	0.5	
2-Butanone (MEK)	< 1000	1000	
2-Hexanone	< 5	5	
Acetone	< 1000	1000	
Benzene	< 0.5	0.5	
Benzyl Chloride	< 0.08	0.08	1
Bromodichloromethane	< 0.08	0.08	1
Bromoform	< 1	1	
Bromomethane	< 1	1	
Carbon Disulfide	< 100	100	
Carbon Tetrachloride	< 0.1	0.1	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
Chloroform	< 0.17	0.17	
Chloromethane	< 10	10	
cis-1,2-Dichloroethene	< 5	5	
cis-1,3-Dichloropropene	< 1	1	
Cyclohexane	< 1600	1600	
Dibromochloromethane	< 0.1	0.1	
Dichlorodifluoromethane	< 10	10	
Ethyl Acetate	< 500	500	
Ethylbenzene	< 2	2	
Hexachloro-1,3-butadiene	< 0.1	0.1	
Isooctane	< 100	100	
m,p-Xylene	< 10	10	
Methylene Chloride	< 12	12	
Methyl-tert-butyl ether	< 10	10	
N-Heptane	< 100	100	
N-Hexane	< 50	50	
o-Xylene	< 10	10	
Propylene	< 100	100	
Styrene	< 100	100	
Tetrachloroethene	< 0.47	0.47	
Tetrahydrofuran	< 100	100	



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Analytical Report

<u>Method Blank (MB):</u>	<u>MB Results (ppbv)</u>	<u>Reporting Limit (ppbv)</u>	<u>Flags</u>			
Toluene	< 1000	1000				
trans-1,2-Dichloroethene	< 10	10				
trans-1,3-Dichloropropene	< 1	1				
Trichloroethene	< 0.2	0.2				
Trichlorofluoromethane	< 100	100				
Vinyl Acetate	< 50	50				
Vinyl Bromide	< 0.1	0.1				
Vinyl Chloride	< 0.5	0.5				
4-bromofluorobenzene (surrogate)	91%					
Analysis Date/Time:	10-13-15/17:57					
Analyst Initials	tjg					

<u>LCS/LCSD</u>	<u>LCS Results (ppbv)</u>	<u>LCSD Results (ppbv)</u>	<u>LCS/D</u>	<u>LCS</u>	<u>LCSD</u>	<u>RPD</u>	<u>Flag</u>
			<u>Conc(ppbv)</u>	<u>Rec.</u>	<u>Rec.</u>		
Propylene	9.81	9.56	10	98%	96%	2.6%	
Dichlorodifluoromethane	8.7	8.6	10	87%	86%	1.2%	
Chloromethane	11.1	10.7	10	111%	107%	3.7%	
Vinyl Chloride	11.3	11.2	10	113%	112%	0.9%	
1,3-Butadiene	8.99	8.85	10	90%	89%	1.6%	
Bromomethane	10.4	10.2	10	104%	102%	1.9%	
Chloroethane	10.9	10.8	10	109%	108%	0.9%	
Vinyl Bromide	11.1	9.71	10	111%	97%	13.4%	
Trichlorofluoromethane	8.57	8.45	10	86%	85%	1.4%	
Acetone	9.72	9.55	10	97%	96%	1.8%	
1,1-Dichloroethene	10.3	10.1	10	103%	101%	2.0%	
Methylene Chloride	10.4	10.3	10	104%	103%	1.0%	
Carbon Disulfide	11.9	11.8	10	119%	118%	0.8%	
trans-1,2-Dichloroethene	11.3	11.1	10	113%	111%	1.8%	
Methyl-tert-butyl ether	9.89	9.72	10	99%	97%	1.7%	
1,1-Dichloroethane	11.2	10.8	10	112%	108%	3.6%	
Vinyl Acetate	11.1	10.9	10	111%	109%	1.8%	
N-Hexane	11.9	11.8	10	119%	118%	0.8%	
2-Butanone (MEK)	12.1	10.8	10	121%	108%	11.4%	
cis-1,2-Dichloroethene	10.6	10.7	10	106%	107%	0.9%	
Ethyl Acetate	10.8	11.8	10	108%	118%	8.8%	
Chloroform	9.39	9.24	10	94%	92%	1.6%	
Tetrahydrofuran	10.4	10.8	10	104%	108%	3.8%	
1,2-Dichloroethane	8.74	8.34	10	87%	83%	4.7%	
1,1,1-Trichloroethane	8.77	8.35	10	88%	84%	4.9%	
Carbon Tetrachloride	9.16	8.46	10	92%	85%	7.9%	
Benzene	10.2	10.9	10	102%	109%	6.6%	
Cyclohexane	10.4	11.1	10	104%	111%	6.5%	
1,2-Dichloropropane	10.5	11.1	10	105%	111%	5.6%	
Trichloroethene	8.65	9.14	10	87%	91%	5.5%	
Bromodichloromethane	8.64	9.09	10	86%	91%	5.1%	
1,4-Dioxane	9.86	9.67	10	99%	97%	1.9%	
Isooctane	9.46	10.2	10	95%	102%	7.5%	
N-Heptane	10.6	11.3	10	106%	113%	6.4%	
cis-1,3-Dichloropropene	9.18	9.77	10	92%	98%	6.2%	
4-Methyl-2-pentanone (MIBK)	10.4	11.1	10	104%	111%	6.5%	
trans-1,3-Dichloropropene	8.9	9.37	10	89%	94%	5.1%	
1,1,2-Trichloroethane	9.03	9.49	10	90%	95%	5.0%	
Toluene	8.46	8.97	10	85%	90%	5.9%	
2-Hexanone	9.84	10.5	10	98%	105%	6.5%	
Dibromochloromethane	10.2	10.7	10	102%	107%	4.8%	
1,2-dibromoethane (EDB)	10.4	10.8	10	104%	108%	3.8%	
Tetrachloroethene	9.51	10.1	10	95%	101%	6.0%	
Chlorobenzene	9.73	10.1	10	97%	101%	3.7%	
Ethylbenzene	8.96	9.44	10	90%	94%	5.2%	
m,p-Xylene	18.5	19.6	20	93%	98%	5.8%	
Bromoform	10.3	10.8	10	103%	108%	4.7%	



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Analytical Report

	<u>LCS/LCSD</u>	<u>LCS Results (ppbv)</u>	<u>LCSD Results (ppbv)</u>	<u>LCS/D</u>	<u>LCS</u>	<u>LCSD</u>	<u>RPD</u>	<u>Flag</u>
				<u>Conc(ppbv)</u>	<u>Rec.</u>	<u>Rec.</u>		
Styrene		9.73	10.3	10	97%	103%	5.7%	
1,1,2,2-Tetrachloroethane		9.83	10.3	10	98%	103%	4.7%	
o-Xylene		9.81	10.3	10	98%	103%	4.9%	
4-Ethyltoluene		8.06	8.62	10	81%	86%	6.7%	
1,3,5-Trimethylbenzene		8.23	8.61	10	82%	86%	4.5%	
1,2,4-Trimethylbenzene		8.29	8.74	10	83%	87%	5.3%	
1,3-Dichlorobenzene		8.89	9.35	10	89%	94%	5.0%	
Benzyl Chloride		10.9	11.5	10	109%	115%	5.4%	
1,4-Dichlorobenzene		9.61	10.1	10	96%	101%	5.0%	
1,2-Dichlorobenzene		9.01	9.44	10	90%	94%	4.7%	
1,2,4-Trichlorobenzene		9.1	9.48	10	91%	95%	4.1%	
Hexachloro-1,3-butadiene		9.16	9.73	10	92%	97%	6.0%	
4-bromofluorobenzene (surrogate)		103%	108%					
Analysis Date/Time:		10-13-15/16:36	10-13-15/17:17					
Analyst Initials		tjg	tjg					



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TO-15 Quality Control Data

EnvisionAir Batch Number: 101915AIR

<u>Method Blank (MB):</u>	<u>MB Results (ppbv)</u>	<u>Reporting Limit (ppbv)</u>	<u>Flags</u>
4-Ethyltoluene	< 100	100	
4-Methyl-2-pentanone (MIBK)	< 500	500	
1,1,1-Trichloroethane	< 100	100	
1,1,2,2-Tetrachloroethane	< 0.049	0.049	1
1,1,2-Trichloroethane	< 0.038	0.038	1
1,1-Dichloroethane	< 1	1	
1,1-Dichloroethene	< 50	50	
1,2,4-Trichlorobenzene	< 0.1	0.1	
1,2,4-Trimethylbenzene	< 1	1	
1,2-dibromoethane (EDB)	< 0.0041	0.0041	1
1,2-Dichlorobenzene	< 10	10	
1,2-Dichloroethane	< 0.1	0.1	
1,2-Dichloropropane	< 0.1	0.1	
1,3,5-Trimethylbenzene	< 1	1	
1,3-Butadiene	< 0.1	0.1	
1,3-Dichlorobenzene	< 10	10	
1,4-Dichlorobenzene	< 0.1	0.1	
1,4-Dioxane	< 0.5	0.5	
2-Butanone (MEK)	< 1000	1000	
2-Hexanone	< 5	5	
Acetone	< 1000	1000	
Benzene	< 0.5	0.5	
Benzyl Chloride	< 0.08	0.08	1
Bromodichloromethane	< 0.08	0.08	1
Bromoform	< 1	1	
Bromomethane	< 1	1	
Carbon Disulfide	< 100	100	
Carbon Tetrachloride	< 0.1	0.1	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
Chloroform	< 0.17	0.17	
Chloromethane	< 10	10	
cis-1,2-Dichloroethene	< 5	5	
cis-1,3-Dichloropropene	< 1	1	
Cyclohexane	< 1600	1600	
Dibromochloromethane	< 0.1	0.1	
Dichlorodifluoromethane	< 10	10	
Ethyl Acetate	< 500	500	
Ethylbenzene	< 2	2	
Hexachloro-1,3-butadiene	< 0.1	0.1	
Isooctane	< 100	100	
m,p-Xylene	< 10	10	
Methylene Chloride	< 12	12	
Methyl-tert-butyl ether	< 10	10	
N-Heptane	< 100	100	
N-Hexane	< 50	50	
o-Xylene	< 10	10	
Propylene	< 100	100	
Styrene	< 100	100	
Tetrachloroethene	< 0.47	0.47	
Tetrahydrofuran	< 100	100	



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<u>Method Blank (MB):</u>	<u>MB Results (ppbv)</u>	<u>Reporting Limit (ppbv)</u>	<u>Flags</u>
Toluene	< 1000	1000	
trans-1,2-Dichloroethene	< 10	10	
trans-1,3-Dichloropropene	< 1	1	
Trichlorethene	< 0.2	0.2	
Trichlorofluoromethane	< 100	100	
Vinyl Acetate	< 50	50	
Vinyl Bromide	< 0.1	0.1	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	99%		
Analysis Date/Time:	10-19-15/13:00		
Analyst Initials	tjg		

<u>LCS/LCSD</u>	<u>LCS Results (ppbv)</u>	<u>LCSD Results (ppbv)</u>	<u>LCS/D Conc(ppbv)</u>	<u>LCS Rec.</u>	<u>LCSD Rec.</u>	<u>RPD</u>	<u>Flag</u>
Propylene	9.27	9.94	10	93%	99%	7.0%	
Dichlorodifluoromethane	8.49	8.58	10	85%	86%	1.1%	
Chloromethane	8.91	8.92	10	89%	89%	0.1%	
Vinyl Chloride	9.5	9.87	10	95%	99%	3.8%	
1,3-Butadiene	8.43	8.95	10	84%	90%	6.0%	
Bromomethane	9.74	10.3	10	97%	103%	5.6%	
Chloroethane	9.59	10.3	10	96%	103%	7.1%	
Vinyl Bromide	9.89	9.77	10	99%	98%	1.2%	
Trichlorofluoromethane	10.4	10.8	10	104%	108%	3.8%	
Acetone	9.29	9.62	10	93%	96%	3.5%	
1,1-Dichloroethene	9.86	10.4	10	99%	104%	5.3%	
Methylene Chloride	8.98	9.66	10	90%	97%	7.3%	
Carbon Disulfide	9.88	10.5	10	99%	105%	6.1%	
trans-1,2-Dichloroethene	10.1	10.6	10	101%	106%	4.8%	
Methyl-tert-butyl ether	9.97	10.4	10	100%	104%	4.2%	
1,1-Dichloroethane	9.54	10.3	10	95%	103%	7.7%	
Vinyl Acetate	9.12	9.66	10	91%	97%	5.8%	
N-Hexane	8.89	9.44	10	89%	94%	6.0%	
2-Butanone (MEK)	9.01	9.73	10	90%	97%	7.7%	
cis-1,2-Dichloroethene	9.64	10.4	10	96%	104%	7.6%	
Ethyl Acetate	8.91	9.63	10	89%	96%	7.8%	
Chloroform	9.93	10.5	10	99%	105%	5.6%	
Tetrahydrofuran	9.24	9.96	10	92%	100%	7.5%	
1,2-Dichloroethane	10.5	10.9	10	105%	109%	3.7%	
1,1,1-Trichloroethane	10.2	10.6	10	102%	106%	3.8%	
Carbon Tetrachloride	10.5	10.9	10	105%	109%	3.7%	
Benzene	9.52	10	10	95%	100%	4.9%	
Cyclohexane	8.34	8.8	10	83%	88%	5.4%	
1,2-Dichloropropane	9.27	9.84	10	93%	98%	6.0%	
Trichlorethene	9.64	10.1	10	96%	101%	4.7%	
Bromodichloromethane	10.2	10.5	10	102%	105%	2.9%	
1,4-Dioxane	8.97	10.6	10	90%	106%	16.7%	
Isooctane	8.76	9.36	10	88%	94%	6.6%	
N-Heptane	9.28	10	10	93%	100%	7.5%	
cis-1,3-Dichloropropene	9.69	10.1	10	97%	101%	4.1%	
4-Methyl-2-pentanone (MIBK)	9.02	9.68	10	90%	97%	7.1%	
trans-1,3-Dichloropropene	9.66	10	10	97%	100%	3.5%	
1,1,2-Trichloroethane	9.56	10.1	10	96%	101%	5.5%	
Toluene	9.18	9.63	10	92%	96%	4.8%	
2-Hexanone	8.44	9.09	10	84%	91%	7.4%	
Dibromochloromethane	10.8	11.1	10	108%	111%	2.7%	
1,2-dibromoethane (EDB)	9.92	10.3	10	99%	103%	3.8%	
Tetrachloroethene	10.3	10.5	10	103%	105%	1.9%	
Chlorobenzene	9.63	10	10	96%	100%	3.8%	
Ethylbenzene	9.2	9.52	10	92%	95%	3.4%	
m,p-Xylene	18.6	19.1	20	93%	96%	2.7%	
Bromoform	11.1	11.3	10	111%	113%	1.8%	



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<u>LCS/LCSD</u>	<u>LCS Results (ppbv)</u>	<u>LCSD Results (ppbv)</u>	<u>LCS/D</u> <u>Conc(ppbv)</u>	<u>LCS</u> <u>Rec.</u>	<u>LCSD</u> <u>Rec.</u>	<u>RPD</u>	<u>Flag</u>
Styrene	9.3	9.68	10	93%	97%	4.0%	
1,1,2,2-Tetrachloroethane	9.23	9.51	10	92%	95%	3.0%	
o-Xylene	9.93	10.3	10	99%	103%	3.7%	
4-Ethyltoluene	8.38	8.59	10	84%	86%	2.5%	
1,3,5-Trimethylbenzene	8.9	9.11	10	89%	91%	2.3%	
1,2,4-Trimethylbenzene	8.9	9.05	10	89%	91%	1.7%	
1,3-Dichlorobenzene	8.75	8.95	10	88%	90%	2.3%	
Benzyl Chloride	9.22	9.42	10	92%	94%	2.1%	
1,4-Dichlorobenzene	8.84	8.93	10	88%	89%	1.0%	
1,2-Dichlorobenzene	8.89	9.21	10	89%	92%	3.5%	
1,2,4-Trichlorobenzene	8.55	8.78	10	86%	88%	2.7%	
Hexachloro-1,3-butadiene	9.58	9.9	10	96%	99%	3.3%	
4-bromofluorobenzene (surrogate)	100%	100%					
Analysis Date/Time:	10-19-15/11:35	10-19-15/12:17					
Analyst Initials	tjg	tjg					



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<u>Flag Number</u>	<u>Comments</u>
1	Reporting limit is supported by MDL. TJG

CHAIN OF CUSTODY RECORD

EnvisionAir | 1441 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-0885 | Fax: (317) 351-0882

Client: <u>Environ Forensics</u>	P.O. Number: <u>2015873</u>
Report # <u>W23390 State Ridge P.</u> Address: <u>Wenkeisha WI 53188</u>	Project Name or Number: <u>6349</u> <u>Federal Waste Cleaners</u>
Report To: <u>R. Heunstein / B. Heunstein</u>	Sampled by: <u>R. Heunstein</u>
Phone: <u>317-977-7870</u>	QA/QC Required: (circle if applicable) Level III Level IV
Invoice Address:	Reporting Units needed: (circle) <u>ug/m³</u> mg/m ³ PPBV PPMV
Desired TAT: (Please Circle One) 1 day 2 days 3 days <u>Std (5 bus. days)</u>	Media type: 1LC = 1 Liter Canister 6LC = 6 Liter Canister TB = Tedlar Bag TD = Thermal Desorption Tube

REQUESTED PARAMETERS

<div style="transform: rotate(-45deg); font-weight: bold;">TO-15 Full List</div> <div style="transform: rotate(-45deg); font-weight: bold;">TO-15 Short List</div>	
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Sampling Type:
 Soil-Gas:
 Sub-Slab:
 Indoor-Air:

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Canister Pressure / Vacuum

Air Sample ID	Media Type <small>(see code above)</small>	Coll. Date <small>(Grab/Comp Start)</small>	Coll. Time <small>(Grab/Comp Start)</small>	Coll. Date <small>(Comp. End)</small>	Coll. Time <small>(Comp. End)</small>					Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
<u>6349-7525-IA-1</u>	<u>6LL</u>	<u>10-7-15</u>	<u>915</u>	<u>10-8-15</u>	<u>943</u>	<u>X</u>				<u>19862</u>	<u>04655</u>	<u>-28</u>	<u>-5</u>	<u>-5</u>	<u>15-2149</u>
<u>6349-7525-IA-2</u>	<u>6LL</u>	<u>10-7-15</u>	<u>910</u>	<u>10-8-15</u>	<u>940</u>	<u>X</u>				<u>14888</u>	<u>07256</u>	<u>-29</u>	<u>-6</u>	<u>-6</u>	<u>15-2150</u>
<u>6349-7525-IA-B</u>	<u>6LL</u>	<u>10-7-15</u>	<u>920</u>	<u>10-8-15</u>	<u>945</u>	<u>X</u>				<u>91535</u>	<u>07301</u>	<u>-29</u>	<u>-7</u>	<u>-7</u>	<u>15-2151</u>
<u>6349-7525-SSV-1</u>	<u>1LC</u>	<u>10-8-15</u>	<u>1005</u>	<u>10-8-15</u>	<u>1011</u>	<u>X</u>				<u>83734</u>	<u>-</u>	<u>-29</u>	<u>-2</u>	<u>-2</u>	<u>15-2152</u>

Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
<u>[Signature]</u>	<u>10-9-15</u>		<u>Paul Ex</u>	<u>10-9-15</u>	
			<u>Stanley C. Heunstein</u>	<u>10/12/15</u>	<u>1145</u>