April 4, 2018

Janice Deppe
113-115 4th Street
Baraboo, WI 53913

Subject: Vapor Intrusion Sampling Results – 113-115 4th Street, Baraboo, Wisconsin
BRRTS: 02-57-548538

Dear Mrs. Deppe:

In accordance with Wisconsin Department of Natural Resources (WDNR) regulation NR 716.14, EnviroForensics, LLC. (EnviroForensics) is providing the results of environmental samples collected from your property located at 113-115 4th Street in Baraboo, Wisconsin. The samples were collected on March 1, 2018. The sampling activities are part of an environmental investigation being performed for the Badger Cleaners facility located at 616 Oak Street in Baraboo at the direction of the WDNR pursuant to the authority granted to it under State and Federal law. The chemicals of concern (COCs) for the investigation are the dry cleaning solvent tetrachloroethene (PCE) and its associated breakdown products.

The Responsible Party is:

Badger Cleaners
616 Oak Street
Baraboo, WI

Sampling Results

Four indoor air samples were collected from within your building and two (2) sub-slab vapor samples were collected from beneath the concrete slab at your building. For quality control purposes a sample of outdoor ambient air was also collected. The sampling locations are depicted on the attached **Figure 1**. The results of the indoor air and sub-slab vapor samples are summarized and compared to WDNR standards on the attached **Table 1**. A copy of the laboratory report that relates to the indoor air and sub-slab vapor samples is also attached.

PCE was detected in indoor all four indoor air samples, however, the concentrations detected were *below* the vapor action level for PCE detected within small commercial buildings. Trichloroethene (TCE) was detected in one (1) indoor air sample at a concentration *below* the screening level. No other COCs were detected in the indoor air samples. PCE was detected in both sub-slab vapor samples, however, the concentrations detected were *below* their respective vapor risk screening

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Levels. TCE was detected in one (1) sub-slab vapor sample at a concentration above the screening level. No other COCs were detected in the sub-slab vapor samples.

EnviroForensics recommends periodic monitoring to evaluate the detections of PCE and TCE results. We will contact you to schedule the next event. 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, Trevor Bannister, can be reached at 608-275-3490. We greatly appreciate your help and patience with this matter.

Sincerely,
EnviroForensics, LLC

Rob Hoverman, LPG
Senior Project Manager

Attachments: Figure 1 – Vapor Intrusion Sampling Locations
Table 1 – Vapor Intrusion Assessment Results Summary
Laboratory Analytical Report

Copy: Trevor Bannister, Wisconsin Department of Natural Resources

TABLE 1
VAPOR INTRUSION ANALYTICAL RESULTS SUMMARY - 113-115 4TH STREET
Badger Cleaners
616 Oak Street, Baraboo, WI 53913

Sample Identification	Sample Location	Date Sampled	Mitigation	Tetrachloroethene	Trichloroethene
INDOOR/ OUTDOOR AIR					
Small Commercial Vapor Action Level				**180**	**8.8**
6492-OA-1	113-115 4th St	12/19/2017	No	**8.34**	<1.07
		3/1/2018	No	<3.19	<1.07
6492-113-115 4th St-IA-B-1		12/19/2017	No	**17.6**	<1.07
		3/1/2018	No	**15.3**	<1.07
6492-113-115 4th St-IA-B-2		12/19/2017	No	**13.4**	<1.07
		3/1/2018	No	**14.8**	<1.07
6492-113-115 4th St-IA-1-1		12/19/2017	No	**14.4**	<1.07
		3/1/2018	No	**22.0**	<1.07
6492-113-115 4th St-IA-1-2		12/19/2017	No	**22.5**	<1.07
		3/1/2018	No	**19.7**	**3.17**
SUB-SLAB VAPOR					
Small Commercial Vapor Risk Screening Level				**6,000**	**290**
6492-113-115 4th St-SSV-1	113-115 4th St	12/20/2017	No	**22.5**	**9.03**
		3/1/2018	No	**817**	**379**
6492-113-115 4th St-SSV-2		12/20/2017	No	**203**	**4.25**
		3/1/2018	No	**712**	<86.8

Notes:

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

Samples analyzed according to EPA Method TO-15

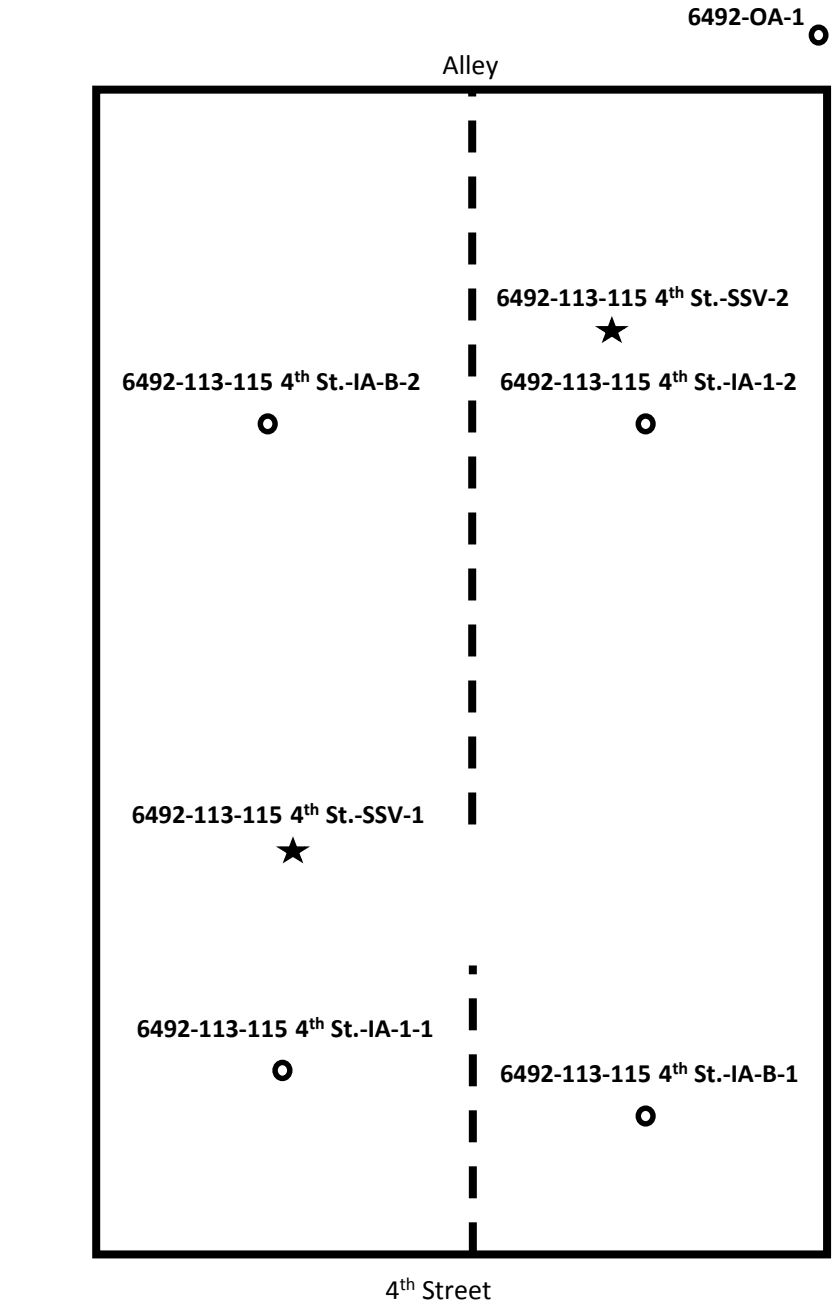
The Vapor Risk Screeing/Action Levels are calculated in accordance with WDNR Publication RR-800 and subsequent guidance documents.

IA = Indoor Air

SSV= Sub-slab vapor

Bolded values are above detection limits

FIGURE 1
VAPOR INTRUSION SAMPLE LOCATIONS
113-115 4th Street, Baraboo Wisconsin



Legend

- = Indoor/Outdoor Air Sample
- **IA-1** = Indoor air sample
- **SSV-1** = Sub-Slab Vapor
- ★ = Sub-Slab Vapor Sampling Port Location
- = Interior Wall

N

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Mr. Kyle Vander Heiden
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

March 20, 2018

EnvisionAir Project Number: 2018-150
Client Project Name: 6492

Dear Mr. Vander Heiden,

Please find the attached analytical report for the samples received March 7, 2018. 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,

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC

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Client Name: ENVIROFORENSICS

Project ID: 6492

Client Project Manager: KYLE VANDER HEIDEN

EnvisionAir Project Number: 2018-150

Sample Summary

Canister Pressure / Vacuum

Laboratory Sample Number:	Sample Description:	Matrix:	START Date Collected:	START Time Collected:	End Date Collected:	End Time Collected:	Date Received:	Time Received	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)
18-682	6492-113-115 4TH ST-IA-B-1	A	3/1/18	9:19	3/1/18	17:03	3/7/18	11:00	-30	-7	-7
18-683	6492-113-115 4TH ST-IA-B-2	A	3/1/18	9:22	3/1/18	17:05	3/7/18	11:00	-30	-13	-13
18-684	6492-113-115 4TH ST-IA-1-1	A	3/1/18	9:14	3/1/18	17:01	3/7/18	11:00	-29	-6	-6
18-685	6492-113-115 4TH ST-IA-1-2	A	3/1/18	9:10	3/1/18	17:08	3/7/18	11:00	-29	-7	-7
18-686	6492-113-115 4TH ST-SSV-1	A	3/1/18	17:42	3/1/18	17:48	3/7/18	11:00	-30	-2	-2
18-687	6492-113-115 4TH ST-SSV-2	A	3/1/18	18:02	3/1/18	18:05	3/7/18	11:00	-20	-2	-2

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Client Name: ENVIROFORENSICS

Project ID: 6492

Client Project Manager: KYLE VANDER HEIDEN

EnvisionAir Project Number: 2018-150

Analytical Method: TO-15
Analytical Batch: 031018AIR

Client Sample ID: 6492-113-115 4TH ST-IA-B-1

Envision Sample Number: 18-682
Sample Matrix: AIR

Sample Collection START Date/Time: 3/1/18 9:19
Sample Collection END Date/Time: 3/1/18 17:03
Sample Received Date/Time: 3/7/18 11:00

Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
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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Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
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	**15.3**	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)	96%		
Analysis Date/Time:	3-12-18/01:41		
Analyst Initials	tjg		

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Client Name: ENVIROFORENSICS

Project ID: 6492

Client Project Manager: KYLE VANDER HEIDEN

EnvisionAir Project Number: 2018-150

Analytical Method: TO-15
Analytical Batch: 031018AIR

Client Sample ID: 6492-113-115 4TH ST-IA-B-2

Envision Sample Number: 18-683
Sample Matrix: AIR

Sample Collection START Date/Time: 3/1/18 9:22
Sample Collection END Date/Time: 3/1/18 17:05
Sample Received Date/Time: 3/7/18 11:00

Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
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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Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
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	**14.8**	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)	99%		
Analysis Date/Time:	3-12-18/02:25		
Analyst Initials	tjg		

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Client Name: ENVIROFORENSICS

Project ID: 6492

Client Project Manager: KYLE VANDER HEIDEN

EnvisionAir Project Number: 2018-150

Analytical Method: TO-15
Analytical Batch: 031018AIR

Client Sample ID: 6492-113-115 4TH ST-IA-1-1

Envision Sample Number: 18-684
Sample Matrix: AIR

Sample Collection START Date/Time: 3/1/18 9:14
Sample Collection END Date/Time: 3/1/18 17:01
Sample Received Date/Time: 3/7/18 11:00

Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
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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Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
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	**22.0**	3.19	
Tetrahydrofuran	< 295	295	
Toluene	< 3770	3770	
trans-1,2-Dichloroethene	< 39.6	39.6	
trans-1,3-Dichloropropene	< 4.54	4.54	
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:	3-12-18/03:04		
Analyst Initials	tjg		

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Client Name: ENVIROFORENSICS

Project ID: 6492

Client Project Manager: KYLE VANDER HEIDEN

EnvisionAir Project Number: 2018-150

Analytical Method: TO-15
Analytical Batch: 031018AIR

Client Sample ID: 6492-113-115 4TH ST-IA-1-2

Envision Sample Number: 18-685
Sample Matrix: AIR

Sample Collection START Date/Time: 3/1/18 9:10
Sample Collection END Date/Time: 3/1/18 17:08
Sample Received Date/Time: 3/7/18 11:00

Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
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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Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
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	**19.7**	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	**3.17**	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:	3-12-18/03:43		
Analyst Initials	tjg		

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Client Name: ENVIROFORENSICS

Project ID: 6492

Client Project Manager: KYLE VANDER HEIDEN

EnvisionAir Project Number: 2018-150

Analytical Method: TO-15
Analytical Batch: 031418AIR

Client Sample ID: 6492-113-115 4TH ST-SSV-1
Envision Sample Number: 18-686
Sample Matrix: AIR

Sample Collection START Date/Time: 3/1/18 17:42
Sample Collection END Date/Time: 3/1/18 17:48
Sample Received Date/Time: 3/7/18 11:00

Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
4-Ethyltoluene	< 4920	4920	
4-Methyl-2-pentanone (MIBK)	< 20500	20500	
1,1,1-Trichloroethane	< 5460	5460	
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1
1,1,2-Trichloroethane	< 2.10	2.10	1
1,1-Dichloroethane	< 40.5	40.5	
1,1-Dichloroethene	< 1980	1980	
1,2,4-Trichlorobenzene	< 7.42	7.42	
1,2,4-Trimethylbenzene	< 49.2	49.2	
1,2-dibromoethane (EDB)	< 0.32	0.32	1
1,2-Dichlorobenzene	< 601	601	
1,2-Dichloroethane	< 4.05	4.05	
1,2-Dichloropropane	< 4.62	4.62	
1,3,5-Trimethylbenzene	< 49.2	49.2	
1,3-Butadiene	< 2.21	2.21	
1,3-Dichlorobenzene	< 601	601	
1,4-Dichlorobenzene	< 6.01	6.01	
1,4-Dioxane	< 18.0	18.0	
2-Butanone (MEK)	< 29500	29500	
2-Hexanone	< 205	205	
Acetone	< 23800	23800	
Benzene	< 16.0	16.0	
Benzyl Chloride	< 4.14	4.14	1
Bromodichloromethane	< 5.36	5.36	1
Bromoform	< 103	103	
Bromomethane	< 38.8	38.8	
Carbon Disulfide	< 3110	3110	
Carbon Tetrachloride	< 6.29	6.29	
Chlorobenzene	< 230	230	
Chloroethane	< 132	132	

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Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
Chloroform	< 8.30	8.30	
Chloromethane	< 206	206	
cis-1,2-Dichloroethene	< 198	198	
cis-1,3-Dichloropropene	< 45.4	45.4	
Cyclohexane	< 55100	55100	
Dibromochloromethane	< 8.52	8.52	
Dichlorodifluoromethane	< 495	495	
Ethyl Acetate	< 18000	18000	
Ethylbenzene	< 86.8	86.8	
Hexachloro-1,3-butadiene	< 10.7	10.7	
Isooctane	< 4670	4670	
m,p-Xylene	< 434	434	
Methylene Chloride	< 417	417	
Methyl-tert-butyl ether	< 361	361	
N-Heptane	< 4100	4100	
N-Hexane	< 1760	1760	
o-Xylene	< 434	434	
Propylene	< 1720	1720	
Styrene	< 4260	4260	
Tetrachloroethene	**817**	31.9	
Tetrahydrofuran	< 2950	2950	
Toluene	< 37700	37700	
trans-1,2-Dichloroethene	< 396	396	
trans-1,3-Dichloropropene	< 45.4	45.4	
Trichloroethene	**379**	10.7	
Trichlorofluoromethane	< 5620	5620	
Vinyl Acetate	< 1760	1760	
Vinyl Bromide	< 4.37	4.37	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	106%		
Analysis Date/Time:	3-15-18/23:57		
Analyst Initials	tjg		

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Client Name: ENVIROFORENSICS

Project ID: 6492

Client Project Manager: KYLE VANDER HEIDEN

EnvisionAir Project Number: 2018-150

Analytical Method: TO-15
Analytical Batch: 031418AIR

Client Sample ID: 6492-113-115 4TH ST-SSV-2
Envision Sample Number: 18-687
Sample Matrix: AIR

Sample Collection START Date/Time: 3/1/18 18:02
Sample Collection END Date/Time: 3/1/18 18:05
Sample Received Date/Time: 3/7/18 11:00

Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
4-Ethyltoluene	< 4920	4920	
4-Methyl-2-pentanone (MIBK)	< 20500	20500	
1,1,1-Trichloroethane	< 5460	5460	
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1
1,1,2-Trichloroethane	< 2.10	2.10	1
1,1-Dichloroethane	< 40.5	40.5	
1,1-Dichloroethene	< 1980	1980	
1,2,4-Trichlorobenzene	< 7.42	7.42	
1,2,4-Trimethylbenzene	< 49.2	49.2	
1,2-dibromoethane (EDB)	< 0.32	0.32	1
1,2-Dichlorobenzene	< 601	601	
1,2-Dichloroethane	< 4.05	4.05	
1,2-Dichloropropane	< 4.62	4.62	
1,3,5-Trimethylbenzene	< 49.2	49.2	
1,3-Butadiene	< 2.21	2.21	
1,3-Dichlorobenzene	< 601	601	
1,4-Dichlorobenzene	< 6.01	6.01	
1,4-Dioxane	< 18.0	18.0	
2-Butanone (MEK)	< 29500	29500	
2-Hexanone	< 205	205	
Acetone	< 23800	23800	
Benzene	< 16.0	16.0	
Benzyl Chloride	< 4.14	4.14	1
Bromodichloromethane	< 5.36	5.36	1
Bromoform	< 103	103	
Bromomethane	< 38.8	38.8	
Carbon Disulfide	< 3110	3110	
Carbon Tetrachloride	< 6.29	6.29	
Chlorobenzene	< 230	230	
Chloroethane	< 132	132	

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Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
Chloroform	< 8.30	8.30	
Chloromethane	< 206	206	
cis-1,2-Dichloroethene	< 198	198	
cis-1,3-Dichloropropene	< 45.4	45.4	
Cyclohexane	< 55100	55100	
Dibromochloromethane	< 8.52	8.52	
Dichlorodifluoromethane	< 495	495	
Ethyl Acetate	< 18000	18000	
Ethylbenzene	< 86.8	86.8	
Hexachloro-1,3-butadiene	< 10.7	10.7	
Isooctane	< 4670	4670	
m,p-Xylene	< 434	434	
Methylene Chloride	< 417	417	
Methyl-tert-butyl ether	< 361	361	
N-Heptane	< 4100	4100	
N-Hexane	< 1760	1760	
o-Xylene	< 434	434	
Propylene	< 1720	1720	
Styrene	< 4260	4260	
Tetrachloroethene	**712**	31.9	
Tetrahydrofuran	< 2950	2950	
Toluene	< 37700	37700	
trans-1,2-Dichloroethene	< 396	396	
trans-1,3-Dichloropropene	< 45.4	45.4	
Trichloroethene	< 10.7	10.7	
Trichlorofluoromethane	< 5620	5620	
Vinyl Acetate	< 1760	1760	
Vinyl Bromide	< 4.37	4.37	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	99%		
Analysis Date/Time:	3-16-18/00:34		
Analyst Initials	tjg		

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Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number: 031018AIR

Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	Flags
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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Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	Flags
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)	97%		
Analysis Date/Time:	3-11-18/09:39		
Analyst Initials	tjg		

LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	LCS/D Conc(ppbv)	LCS Rec.	LCSD Rec.	RPD	Flag
Propylene	9.34	8.98	10	93%	90%	3.9%	
Dichlorodifluoromethane	11.3	11.2	10	113%	112%	0.9%	
Chloromethane	10.1	9.86	10	101%	99%	2.4%	
Vinyl Chloride	9.9	9.75	10	99%	98%	1.5%	
1,3-Butadiene	8.94	8.48	10	89%	85%	5.3%	
Bromomethane	10.8	10.2	10	108%	102%	5.7%	
Chloroethane	11.3	10.7	10	113%	107%	5.5%	
Vinyl Bromide	10.5	10.3	10	105%	103%	1.9%	
Trichlorofluoromethane	11.7	9.48	10	117%	95%	20.5%	2
Acetone	8.56	8.03	10	86%	80%	6.4%	
1,1-Dichloroethene	9.32	8.81	10	93%	88%	5.6%	
Methylene Chloride	9.03	8.72	10	90%	87%	3.5%	
Carbon Disulfide	10.1	9.68	10	101%	97%	4.2%	
trans-1,2-Dichloroethene	9.45	8.94	10	95%	89%	5.5%	
Methyl-tert-butyl ether	8.02	8.64	10	80%	86%	7.4%	
1,1-Dichloroethane	8.93	8.53	10	89%	85%	4.6%	
Vinyl Acetate	9.39	9.02	10	94%	90%	4.0%	
N-Hexane	9.36	8.99	10	94%	90%	4.0%	
2-Butanone (MEK)	9.84	9.31	10	98%	93%	5.5%	
cis-1,2-Dichloroethene	8.76	8.54	10	88%	85%	2.5%	
Ethyl Acetate	8.99	8.84	10	90%	88%	1.7%	
Chloroform	8.73	8.43	10	87%	84%	3.5%	
Tetrahydrofuran	10.6	10.3	10	106%	103%	2.9%	
1,2-Dichloroethane	9.35	8.87	10	94%	89%	5.3%	
1,1,1-Trichloroethane	9.69	9.19	10	97%	92%	5.3%	
Carbon Tetrachloride	9.32	9.03	10	93%	90%	3.2%	
Benzene	9.83	9.42	10	98%	94%	4.3%	
Cyclohexane	9.92	9.49	10	99%	95%	4.4%	
1,2-Dichloropropane	9.13	8.89	10	91%	89%	2.7%	
Trichloroethene	9.28	8.92	10	93%	89%	4.0%	
Bromodichloromethane	9.2	8.93	10	92%	89%	3.0%	
1,4-Dioxane	10.0	9.38	10	100%	94%	6.0%	
Isooctane	8.57	8.34	10	86%	83%	2.7%	
N-Heptane	8.84	8.47	10	88%	85%	4.3%	
cis-1,3-Dichloropropene	9.26	8.98	10	93%	90%	3.1%	
4-Methyl-2-pentanone (MIBK)	8.5	8.22	10	85%	82%	3.3%	
trans-1,3-Dichloropropene	9.33	8.84	10	93%	88%	5.4%	
1,1,2-Trichloroethane	9.27	9.03	10	93%	90%	2.6%	
Toluene	9.51	9.37	10	95%	94%	1.5%	
2-Hexanone	10.2	9.83	10	102%	98%	3.7%	
Dibromochloromethane	9.87	9.79	10	99%	98%	0.8%	
1,2-dibromoethane (EDB)	10.2	9.93	10	102%	99%	2.7%	
Tetrachloroethene	8.78	8.5	10	88%	85%	3.2%	
Chlorobenzene	10.4	10.1	10	104%	101%	2.9%	
Ethylbenzene	10.1	9.93	10	101%	99%	1.7%	
m,p-Xylene	20.6	19.8	20	103%	99%	4.0%	
Bromoform	9.86	9.71	10	99%	97%	1.5%	

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Analytical Report

LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	LCS/D Conc(ppbv)	LCS Rec.	LCSD Rec.	RPD	Flag
Styrene	11.1	10.7	10	111%	107%	3.7%	
1,1,2,2-Tetrachloroethane	10.5	10.1	10	105%	101%	3.9%	
o-Xylene	10.4	10.2	10	104%	102%	1.9%	
4-Ethyltoluene	10.7	10.5	10	107%	105%	1.9%	
1,3,5-Trimethylbenzene	9.96	9.7	10	100%	97%	2.6%	
1,2,4-Trimethylbenzene	9.96	9.75	10	100%	98%	2.1%	
1,3-Dichlorobenzene	10.9	11	10	109%	110%	0.9%	
Benzyl Chloride	9.89	11.4	10	99%	114%	14.2%	
1,4-Dichlorobenzene	11.4	10.8	10	114%	108%	5.4%	
1,2-Dichlorobenzene	9.97	9.67	10	100%	97%	3.1%	
1,2,4-Trichlorobenzene	11.1	10.1	10	111%	101%	9.4%	
Hexachloro-1,3-butadiene	8.95	8.94	10	90%	89%	0.1%	
4-bromofluorobenzene (surrogate)	113%	115%					
Analysis Date/Time:	3-11-18/09:05	3-11-18/15:27					
Analyst Initials	tjg	tjg					

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Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number: 031418AIR

Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	Flags
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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Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	Flags
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)	107%		
Analysis Date/Time:	3-15-18/15:17		
Analyst Initials	tjg		

LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	LCS/D Conc(ppbv)	LCS Rec.	LCSD Rec.	RPD	Flag
Propylene	10.3	9.5	10	103%	95%	8.1%	
Dichlorodifluoromethane	11	10.8	10	110%	108%	1.8%	
Chloromethane	10.5	10.4	10	105%	104%	1.0%	
Vinyl Chloride	10.6	9.91	10	106%	99%	6.7%	
1,3-Butadiene	9.7	8.68	10	97%	87%	11.1%	
Bromomethane	11.6	11.7	10	116%	117%	0.9%	
Chloroethane	10.7	11.4	10	107%	114%	6.3%	
Vinyl Bromide	11.3	11.2	10	113%	112%	0.9%	
Trichlorofluoromethane	11.2	10.1	10	112%	101%	10.3%	
Acetone	9.45	8.93	10	95%	89%	5.7%	
1,1-Dichloroethene	9.74	9.46	10	97%	95%	2.9%	
Methylene Chloride	9.95	9.9	10	100%	99%	0.5%	
Carbon Disulfide	10.5	10.2	10	105%	102%	2.9%	
trans-1,2-Dichloroethene	10.2	9.94	10	102%	99%	2.6%	
Methyl-tert-butyl ether	8.95	8.34	10	90%	83%	7.1%	
1,1-Dichloroethane	9.36	9.15	10	94%	92%	2.3%	
Vinyl Acetate	10.1	9.6	10	101%	96%	5.1%	
N-Hexane	10	9.52	10	100%	95%	4.9%	
2-Butanone (MEK)	10.6	10.3	10	106%	103%	2.9%	
cis-1,2-Dichloroethene	9.67	9.24	10	97%	92%	4.5%	
Ethyl Acetate	9.96	9.42	10	100%	94%	5.6%	
Chloroform	9.46	9.08	10	95%	91%	4.1%	
Tetrahydrofuran	10.1	10.3	10	101%	103%	2.0%	
1,2-Dichloroethane	8.71	9.31	10	87%	93%	6.7%	
1,1,1-Trichloroethane	8.9	9.62	10	89%	96%	7.8%	
Carbon Tetrachloride	8.49	9.45	10	85%	95%	10.7%	
Benzene	9.25	9.99	10	93%	100%	7.7%	
Cyclohexane	9.24	9.82	10	92%	98%	6.1%	
1,2-Dichloropropane	8.76	9.49	10	88%	95%	8.0%	
Trichloroethene	9.0	9.99	10	90%	100%	10.8%	
Bromodichloromethane	8.72	9.5	10	87%	95%	8.6%	
1,4-Dioxane	11.1	12	10	111%	120%	7.8%	
Isooctane	10.4	8.68	10	104%	87%	18.0%	
N-Heptane	8.3	8.57	10	83%	86%	3.2%	
cis-1,3-Dichloropropene	8.9	9.57	10	89%	96%	7.3%	
4-Methyl-2-pentanone (MIBK)	8.62	9.07	10	86%	91%	5.1%	
trans-1,3-Dichloropropene	8.91	9.58	10	89%	96%	7.2%	
1,1,2-Trichloroethane	8.89	9.83	10	89%	98%	10.0%	
Toluene	9.26	10.2	10	93%	102%	9.7%	
2-Hexanone	10.6	11.2	10	106%	112%	5.5%	
Dibromochloromethane	8.67	8.66	10	87%	87%	0.1%	
1,2-dibromoethane (EDB)	9.11	9	10	91%	90%	1.2%	
Tetrachloroethene	8.25	8.55	10	83%	86%	3.6%	
Chlorobenzene	9.49	9.39	10	95%	94%	1.1%	
Ethylbenzene	9.3	9.22	10	93%	92%	0.9%	
m,p-Xylene	18.7	18.3	20	94%	92%	2.2%	
Bromoform	8.93	8.75	10	89%	88%	2.0%	

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Analytical Report

LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	LCS/D Conc(ppbv)	LCS Rec.	LCSD Rec.	RPD	Flag
Styrene	10.1	10.1	10	101%	101%	0.0%	
1,1,2,2-Tetrachloroethane	9.61	9.45	10	96%	95%	1.7%	
o-Xylene	9.82	9.39	10	98%	94%	4.5%	
4-Ethyltoluene	10	9.89	10	100%	99%	1.1%	
1,3,5-Trimethylbenzene	9.34	9.3	10	93%	93%	0.4%	
1,2,4-Trimethylbenzene	9.35	9.35	10	94%	94%	0.0%	
1,3-Dichlorobenzene	10.9	10.6	10	109%	106%	2.8%	
Benzyl Chloride	10.4	11.1	10	104%	111%	6.5%	
1,4-Dichlorobenzene	10.8	10.7	10	108%	107%	0.9%	
1,2-Dichlorobenzene	9.58	9.56	10	96%	96%	0.2%	
1,2,4-Trichlorobenzene	10.3	11.7	10	103%	117%	12.7%	
Hexachloro-1,3-butadiene	9.01	9.02	10	90%	90%	0.1%	
4-bromofluorobenzene (surrogate)	112%	113%					
Analysis Date/Time:	3-15-18/12:48	3-15-18/15:59					
Analyst Initials	tjg	tjg					

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Flag Number	Comments
1	Reporting limit is supported by MDL. TJG
2	RPD is biased high, but recoveries are within control. TJG 3/16/18

EnvisionAir Proj#: 2018-150 Page 1 of 1

CHAIN OF CUSTODY RECORD

EnvisionAir | 1437 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-0885 | Fax: (317) 351-0882

Client: EnviroForensics, LLC	P.O. Number: 2018-0176
Report Address: N16 W23390 Stone Ridge Dr Suite G Waukesha, WI 53188	Project Name or Number: 6492
Report To: K. Vander Heiden / R. Haverman	Sampled by: KV
Phone: (262) 290-4001	QA/QC Required: (circle if applicable) Level III Level IV IA only
Invoice Address:	Reporting Units needed: (circle) ug/m³ mg/m³ PPBV PPMV
Desired TAT: (Please Circle One) 1 day 2 days 3 days Std (5 bus. days)	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)	TO-15 Full List	TO-15 Short List			Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
6492-113-115 4th St-IA-B-1	6LC	3/1/18	0919	3/1/18	1703	x				91536	03059	-30	-7	-7	18-682
6492-113-115 4th St-IA-B-2	6LC	3/1/18	0922	3/1/18	1705	x				14120	05715	-30	-13	-13	18-683
6492-113-115 4th St-IA-1-1	6LC	3/1/18	0914	3/1/18	1701	x				91601	05303	-29	-6	-6	18-684
6492-113-115 4th St-IA-1-2	6LC	3/1/18	0910	3/1/18	1708	x				91578	07254	-29	-7	-7	18-685
6492-113-115 4th St-SSV-1	1LC	3/1/18	1742	3/1/18	1748	x				83981	0055	-30	-2	-2	18-686
6492-113-115 4th St-SSV-2	1LC	3/1/18	1802	3/1/18	1805	x				2233	NA	-20	-2	-2	18-687

Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
	3/5/18	1100	FedEx		
			Adam Hunnicutt	3/7/18	1100