



August 31, 2017

Tyler Walker
109 N. Franklin St.
Port Washington, WI 53074

Subject: Environmental Investigation Sampling Results
BRRTS#: 02-46-548092

Dear Mr. Walker:

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 apartment located at 109 North Franklin Street in Port Washington, Wisconsin on August 7-8, 2017. The sampling activities are part of an environmental investigation being performed for the Harborview Cleaners facility located at 134 East Grand Avenue in Port Washington, Wisconsin at the direction of the WDNR. The chemicals of concern for the investigation are the dry cleaning solvent tetrachloroethene (PCE) and its associated breakdown products.

Sampling Results

One (1) indoor air sample designated 6348-109-IA was collected from your apartment. The results of the sample are summarized and compared to WDNR standards on the attached **Table 1**. The laboratory report that relates to the indoor air sample is also attached. As listed on the attached table, PCE was detected in the air sample at a concentration of 51.0 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). The concentration of PCE has decreased over time; however, the concentration is still above the residential vapor action level of 42 $\mu\text{g}/\text{m}^3$ established by the WDNR.

EnviroForensics has implemented vapor mitigation actions in the basement of the building, and planning for remediation of the Harborview Cleaners property is underway. The remedial technology that has been proposed is designed to further reduce the concentration of PCE in indoor air.

If you have any questions or would like to discuss these results, please contact us at 262-290-4001 or by email at bkappen@enviroforensics.com and rhoverman@enviroforensics.com. The WDNR project manager, John Feeney, can be reached at 920-893-8523. We greatly appreciate your help and patience with this matter.



EnvisionAir
1441 Sadlier Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Mr. Brian Kappen
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

August 17, 2017

EnvisionAir Project Number: 2017-436
Client Project Name: 6348

Dear Mr. Kappen,

Please find the attached analytical report for the samples received August 9, 2017. 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 "Stanley A. Hunnicutt".

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC



EnvisionAir
 1441 Sadlier Circle West Drive
 Indianapolis, IN 46239
 Ph: 317-351-0885
 Fax: 317-351-0882
 www.envision-air.com

Client Name: ENVIROFORENSICS
 Project ID: 6348
 Client Project Manager: BRIAN KAPPEN
 EnvisionAir Project Number: 2017-436

Sample Summary

Canister Pressure / Vacuum

<u>Laboratory Sample Number:</u>	<u>Sample Description:</u>	<u>START</u> <u>Date</u>	<u>START</u> <u>Time</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>Received</u>	
		<u>Collected:</u>	<u>Collected:</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>	
17-1723	6348-109-1A	A	8/7/17	6:45	8/8/17	6:46	8/9/17	12:00	-30	-9	-9



EnvisionAir
1441 Sadlier Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Client Name: ENVIROFORENSICS

Project ID: 6348

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2017-436

Analytical Method: TO-15
Analytical Batch: 081117CAIR

Client Sample ID: 6348-109-IA

Envision Sample Number: 17-1723
Sample Matrix: AIR

Sample Collection START Date/Time: 8/7/17 6:45
Sample Collection END Date/Time: 8/8/17 6:46
Sample Received Date/Time: 8/9/17 12:00

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 19.8	19.8	
Tetrachloroethene	51.0	3.19	
trans-1,2-Dichloroethene	< 39.6	39.6	
Trichloroethene	< 1.07	1.07	
Vinyl Chloride	< 1.28	1.28	
4-bromofluorobenzene (surrogate)	119%		
Analysis Date/Time:	8-12-17/14:48		
Analyst Initials	tjg		



EnvisionAir
 1441 Sadlier Circle West Drive
 Indianapolis, IN 46239
 Ph: 317-351-0885
 Fax: 317-351-0882
 www.envision-air.com

Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number: 081117CAIR

<u>Method Blank (MB):</u>	<u>MB Results (ppbv)</u>	<u>Reporting Limit (ppbv)</u>	<u>Flags</u>
cis-1,2-Dichloroethene	< 5	5	
Tetrachloroethene	< 0.47	0.47	
trans-1,2-Dichloroethene	< 10	10	
Trichloroethene	< 0.2	0.2	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	92%		
Analysis Date/Time:	8-12-17/02:12		
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>
Vinyl Chloride	11.3	11.3	10	113%	113%	0.0%	
trans-1,2-Dichloroethene	11.6	11.6	10	116%	116%	0.0%	
cis-1,2-Dichloroethene	11.2	11.1	10	112%	111%	0.9%	
Trichloroethene	9.85	10	10	99%	100%	1.5%	
Tetrachloroethene	9.49	9.45	10	95%	95%	0.4%	
4-bromofluorobenzene (surrogate)	104%	103%					
Analysis Date/Time:	8-12-17/00:56	8-12-17/01:37					
Analyst Initials	tjg	tjg					



EnvisionAir
1441 Sadler Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Flag Number

Comments

CHAIN OF CUSTODY RECORD

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

Client: <u>Enviro Forensics</u>	P.O. Number: <u>2017-07861</u>
Report Address: <u>216 W 35th St Suite 100 Indianapolis, IN 46208</u>	Project Name or Number: <u>6348</u>
Report To: <u>B. Kappan</u>	Sampled by: <u>[Signature]</u> <u>BK</u>
Phone: <u>317 972 7870</u>	QA/QC Required: (circle if applicable) Level III <u>Level IV</u>
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

TO-15 Full List

TO-15 Short List



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

www.envision-air.com

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
6348-109-2A	6LC	8/7/17	0645	8/8/17	0646				4696	08222	-30	-9	-9	17-1723

Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
<u>[Signature]</u>	8/8/17	1652	<u>[Signature]</u>	8/9/17	1200



August 31, 2017

Kelly Koepsel
103 N. Franklin St.
Port Washington, WI 53074

Subject: Environmental Investigation Sampling Results
BRRTS#: 02-46-548092

Dear Ms. Koepsel:

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 apartment located at 103 North Franklin Street in Port Washington, Wisconsin on August 7-8, 2017. The sampling activities are part of an environmental investigation being performed for the Harborview Cleaners facility located at 134 East Grand Avenue in Port Washington, Wisconsin at the direction of the WDNR. The chemicals of concern for the investigation are the dry cleaning solvent tetrachloroethene (PCE) and its associated breakdown products.

Sampling Results

One (1) indoor air sample designated 6348-103-IA was collected from your apartment. The results of the sample are summarized and compared to WDNR standards on the attached **Table 1**. The laboratory report that relates to the indoor air sample is also attached. As listed on the attached table, PCE was detected in the air sample at a concentration of 101 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). The concentration of PCE have decreased over time; however, the concentration is still above the residential vapor action level of 42 $\mu\text{g}/\text{m}^3$ established by the WDNR.

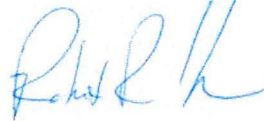
EnviroForensics has implemented vapor mitigation actions in the basement of the building, and planning for full scale remediation of the Harborview Cleaners property is underway. The remedial technology that has been proposed is designed to further reduce the concentration of PCE in indoor air.

If you have any questions or would like to discuss these results, please contact us at 262-290-4001 or by email at bkappen@enviroforensics.com and rhoverman@enviroforensics.com. The WDNR project manager, John Feeney, can be reached at 920-893-8523. We greatly appreciate your help and patience with this matter.

Sincerely,
EnviroForensics, LLC



Brian Kappen, PG
Project Manager



Rob Hoverman, LPG
Senior Project Manager

Attachments: Sample Results Summary Table
Laboratory Analytical Report

Copy: John Feeney, Wisconsin Department of Natural Resources
Alphonse Uselding Jr.
Rob Thiboldeaux, Department of Health Services

TABLE 1
VAPOR INTRUSION ASSESSMENT RESULTS SUMMARY - 103-109 NORTH FRANKLIN STREET

Harborview Cleaners
 134 E. Grand Avenue
 Port Washington, Wisconsin

Sample Identification	Sample Location	Sample Date	Criteria	Mitigation	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
INDOOR/OUTDOOR AIR									
Residential Vapor Action Level					42	2.1	NE	NE	1.7
6348-103-IA	2nd Floor	12/2/2015	Residential	Pre	288	<1.07	<19.8	<39.6	<1.28
		1/13/2016		Pre	849	<1.07	<3.96	<3.96	<0.64
		5/24/2016		Post	100	<1.07	<3.96	<3.96	<0.64
		11/2/2016		Post	217	<1.07	<3.96	<3.96	<0.64
		8/8/2017		Post	101	<1.07	<19.8	<39.6	<1.28

Notes:

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

Samples analyzed according to EPA Method TO-15

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

Bolded values are above detection limits

Bolded and blue shaded values exceed the applicable residential screening or action level



EnvisionAir
1441 Sadlier Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Mr. Brian Kappen
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

August 17, 2017

EnvisionAir Project Number: 2017-435
Client Project Name: 6348

Dear Mr. Kappen,

Please find the attached analytical report for the samples received August 9, 2017. 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 "Stanley A. Hunnicutt".

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC



EnvisionAir
1441 Sadlier Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Client Name: ENVIROFORENSICS
Project ID: 6348
Client Project Manager: BRIAN KAPPEN
EnvisionAir Project Number: 2017-435

Sample Summary

Canister Pressure / Vacuum

<u>Laboratory Sample Number:</u>	<u>Sample Description:</u>	<u>START</u> <u>Date</u>	<u>START</u> <u>Time</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>Received</u>	
		<u>Collected:</u>	<u>Collected:</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>	
17-1722	6348-103-IA	A	8/7/17	8:30	8/8/17	8:17	8/9/17	12:00	-30	-6	-6



EnvisionAir
1441 Sadler Circle West Drive
Indianapolis, IN 46239
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Fax: 317-351-0882
www.envision-air.com

Client Name: ENVIROFORENSICS

Project ID: 6348

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2017-435

Analytical Method: TO-15
Analytical Batch: 081117CAIR

Client Sample ID: 6348-103-IA

Sample Collection START Date/Time: 8/7/17 8:30

Sample Collection END Date/Time: 8/8/17 8:17

Envision Sample Number: 17-1722

Sample Received Date/Time: 8/9/17 12:00

Sample Matrix: AIR

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 19.8	19.8	
Tetrachloroethene	101	3.19	
trans-1,2-Dichloroethene	< 39.6	39.6	
Trichloroethene	< 1.07	1.07	
Vinyl Chloride	< 1.28	1.28	
4-bromofluorobenzene (surrogate)	117%		
Analysis Date/Time:	8-12-17/14:09		
Analyst Initials	tjg		

TO-15 Quality Control Data

EnvisionAir Batch Number: 081117CAIR

<u>Method Blank (MB):</u>	<u>MB Results (ppbv)</u>	<u>Reporting Limit (ppbv)</u>	<u>Flags</u>
cis-1,2-Dichloroethene	< 5	5	
Tetrachloroethene	< 0.47	0.47	
trans-1,2-Dichloroethene	< 10	10	
Trichloroethene	< 0.2	0.2	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	92%		
Analysis Date/Time:	8-12-17/02:12		
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>
Vinyl Chloride	11.3	11.3	10	113%	113%	0.0%	
trans-1,2-Dichloroethene	11.6	11.6	10	116%	116%	0.0%	
cis-1,2-Dichloroethene	11.2	11.1	10	112%	111%	0.9%	
Trichloroethene	9.85	10	10	99%	100%	1.5%	
Tetrachloroethene	9.49	9.45	10	95%	95%	0.4%	
4-bromofluorobenzene (surrogate)	104%	103%					
Analysis Date/Time:	8-12-17/00:56	8-12-17/01:37					
Analyst Initials	tjg	tjg					



EnvisionAir
1441 Sadler Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Flag Number

Comments

CHAIN OF CUSTODY RECORD

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

Client: <u>EnvisionAir</u>	P.O. Number: <u>2017-0929</u>
Report Address: <u>1441 Sadlier Circle West Drive</u> <u>Indianapolis, IN 46239</u>	Project Name or Number: <u>5348</u>
Report To: <u>B. Kappen</u>	Sampled by: <u>BK</u>
Phone: <u>317 972 7838</u>	QA/QC Required: (circle if applicable) Level III <input type="checkbox"/> <u>Level IV</u> <input checked="" type="checkbox"/>
Invoice Address:	Reporting Units needed: (circle) <u>ug/m³</u> mg/m ³ PPBV PPMV
Desired TAT: (Please Circle One) <u>1 day</u> 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

TO-15 Full List

TO-15 Short List



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

www.envision-air.com

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
<u>5348-03-2A</u>	<u>6LC</u>	<u>8/17/17</u>	<u>0830</u>	<u>8/18/17</u>	<u>0817</u>				<u>4695</u>	<u>02238</u>	<u>-30</u>	<u>-6</u>	<u>-6</u>	<u>17-1722</u>

Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
<u>[Signature]</u>	<u>8/17/17</u>	<u>16:00</u>	<u>[Signature]</u>	<u>8/18/17</u>	<u>12:00</u>



August 31, 2017

Alphonse Jr. and Margaret Uselding
1756 North Holden Street
Port Washington, WI 53074

Subject: Environmental Investigation Sampling Results
BRRTS#: 02-46-548092

Dear Mr. Uselding:

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 105-107 North Franklin Street in Port Washington, Wisconsin on August 7-8, 2017. The sampling activities are part of an environmental investigation being performed for the Harborview Cleaners facility located at 134 East Grand Avenue in Port Washington, Wisconsin at the direction of the WDNR. The chemicals of concern for the investigation are the dry cleaning solvent tetrachloroethene (PCE) and its associated breakdown products.

Sampling Results

Three (3) indoor air samples were collected from your property located at 105-107 North Franklin Street. One (1) outdoor air sample was also collected for quality control purposes. The sample locations are shown on the attached figure. One soil gas sample was collected to determine the concentrations of the chemicals of concern emitted in the sub-slab depressurization system (SSDS) exhaust. The results of the samples are summarized and compared to WDNR standards on the attached **Table 1**. The laboratory reports that relate to the samples are also attached.

As listed on the attached table, PCE was detected in basement sample 6348-105-IA-B at a concentration of 202 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) which is above the WDNR's vapor action level for commercial buildings of $180 \mu\text{g}/\text{m}^3$. PCE was also detected in basement sample 6348-107-IA-B and first floor sample 6348-105-IA-1 at concentrations of $165 \mu\text{g}/\text{m}^3$ and $132 \mu\text{g}/\text{m}^3$ respectively, which are below the WDNR's commercial vapor action level. The chemicals of concern were not detected in the outdoor air sample.

Soil gas sample 6348-EP-2 contained PCE and trichloroethene (TCE) at concentrations of $317 \mu\text{g}/\text{m}^3$ and $146 \mu\text{g}/\text{m}^3$ respectively. These results demonstrate that the sub-slab depressurization system is capturing sub-slab vapor as intended.

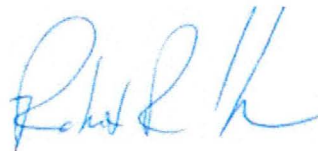
The concentrations of PCE show a decreasing trend over the last year. Planning for remediation at the Harborview Cleaners property is underway, and the remedial technology that has been proposed is designed to further reduce the potential for vapor intrusion in your building.

If you have any questions or would like us to discuss these results with you or your tenants, please contact us at 262-290-4001 or by email at bkappen@enviroforensics.com and rhoverman@enviroforensics.com. The WDNR project manager, John Feeney, can be reached at 920-893-8523. We greatly appreciate your help and patience with this matter.

Sincerely,
EnviroForensics, LLC

A handwritten signature in blue ink, appearing to read "Brian Kappen".

Brian Kappen, PG
Project Manager

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

Rob Hoverman, LPG
Senior Project Manager

Attachments: Vapor Intrusion Sample Locations Figure
Sample Results Summary Table
Laboratory Analytical Report

Copy: John Feeney, Wisconsin Department of Natural Resources
Rob Thiboldeaux, Department of Health Services

TABLE 1
VAPOR INTRUSION ASSESSMENT RESULTS SUMMARY - 103-109 NORTH FRANKLIN STREET

Harborview Cleaners
 134 E. Grand Avenue
 Port Washington, Wisconsin

Sample Identification	Sample Location	Sample Date	Criteria	Mitigation	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
INDOOR/OUTDOOR AIR									
Residential Vapor Action Level					42	2.1	NE	NE	1.7
Small Commercial Vapor Action Level					180	8.8	NE	NE	28
6348-OA	Outside	1/13/2016	Small Commercial	Pre	4.75	<1.07	<3.96	<3.96	<0.64
		5/24/2016		Post	6.92	<1.07	<3.96	<3.96	<0.64
		11/2/2016		Post	16.9	<1.07	<3.96	<3.96	<0.64
		8/8/2017		Post	<3.19	<1.07	<19.8	<39.6	<1.28
6348-105-IA-B	Basement	12/2/2015	Small Commercial	Pre	852	<1.07	<19.8	<39.6	<1.28
		1/13/2016		Pre	1,130	<1.07	<3.96	<3.96	<0.64
		5/24/2016		Post	4,260	<1.07	<3.96	<3.96	<0.64
		11/2/2016		Post	402	<1.07	<3.96	<3.96	<0.64
		8/8/2017		Post	303	<1.07	<19.8	<39.6	<1.28
6348-107-IA-B	Basement	12/2/2015	Small Commercial	Pre	265	<1.07	<19.8	<39.6	<1.28
		1/13/2016		Pre	504	<1.07	<3.96	<3.96	<0.64
		5/24/2016		Post	1,420	<1.07	<3.96	<3.96	<0.64
		11/2/2016		Post	188	<1.07	<3.96	<3.96	<0.64
		8/8/2016		Post	165	<1.07	<19.8	<39.6	<1.28
6348-105/107-IA-1	1st Floor	12/2/2015	Small Commercial	Pre	199	<1.07	<19.8	<39.6	<1.28
6348-105-IA-1	1st Floor	1/13/2016	Small Commercial	Pre	296	<1.07	<3.96	<3.96	<0.64
		5/24/2016		Post	1,480	<1.07	<3.96	<3.96	<0.64
		11/2/2016		Post	277	<1.07	<3.96	<3.96	<0.64
		8/8/2016		Post	132	<1.07	<19.8	<39.6	<1.28
6348-107-IA-1	1st Floor	1/13/2016	Small Commercial	Pre	178	<1.07	<3.96	<3.96	<0.64
SUB-SLAB VAPOR									
Vapor Risk Screening Level					6,000	293	NE	NE	933
6348-107-SSV-1	Basement	12/3/2015	Small Commercial	Pre	142	<10.7	<198	<396	<12.8
		1/13/2016		Pre	326	<10.7	<39.6	<39.6	<6.4
6348-EP-2	Basement	11/2/2016	Small Commercial	Post	4,480	107	<39.6	<39.6	<6.4
		8/8/2017		Post	317	146	<198	<396	<12.8

Notes:

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

Samples analyzed according to EPA Method TO-15

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

Bolded values are above detection limits

Bolded and orange shaded values exceed the applicable non-residential screening or action level



EnvisionAir
1441 Sadler Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Mr. Brian Kappen
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

August 17, 2017

EnvisionAir Project Number: 2017-437
Client Project Name: 6348

Dear Mr. Kappen,

Please find the attached analytical report for the samples received August 9, 2017. 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 "Stanley A. Hunnicutt".

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC



EnvisionAir
 1441 Sadlier Circle West Drive
 Indianapolis, IN 46239
 Ph: 317-351-0885
 Fax: 317-351-0882
 www.envision-air.com

Client Name: ENVIROFORENSICS
Project ID: 6348
Client Project Manager: BRIAN KAPPEN
EnvisionAir Project Number: 2017-437

Sample Summary

Canister Pressure / Vacuum

<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>Collected:</u>	<u>Collected:</u>							<u>Collected:</u>
17-1724	6348-OA	A	8/7/17	9:30	8/8/17	8:25	8/9/17	12:00	-27	-5	-5
17-1725	6348-105-IA-B	A	8/7/17	9:10	8/8/17	8:35	8/9/17	12:00	-29	-5	-5
17-1726	6348-107-IA-B	A	8/7/17	9:18	8/8/17	9:18	8/9/17	12:00	-29	0	0
17-1727	6348-105-IA-1	A	8/7/17	9:15	8/8/17	8:30	8/9/17	12:00	-30	-9	-9



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1441 Sadlier Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Client Name: ENVIROFORENSICS

Project ID: 6348

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2017-437

Analytical Method: TO-15
Analytical Batch: 081117CAIR

Client Sample ID: 6348-OA

Sample Collection START Date/Time: 8/7/17 9:30

Sample Collection END Date/Time: 8/8/17 8:25

Envision Sample Number: 17-1724

Sample Received Date/Time: 8/9/17 12:00

Sample Matrix: AIR

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 19.8	19.8	
Tetrachloroethene	< 3.19	3.19	
trans-1,2-Dichloroethene	< 39.6	39.6	
Trichloroethene	< 1.07	1.07	
Vinyl Chloride	< 1.28	1.28	
4-bromofluorobenzene (surrogate)	105%		
Analysis Date/Time:	8-12-17/03:59		
Analyst Initials	tjg		



EnvisionAir
1441 Sadlier Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Client Name: ENVIROFORENSICS

Project ID: 6348

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2017-437

Analytical Method: TO-15
Analytical Batch: 081117CAIR

Client Sample ID: 6348-105-IA-B

Sample Collection START Date/Time: 8/7/17 9:10

Sample Collection END Date/Time: 8/8/17 8:35

Envision Sample Number: 17-1725

Sample Received Date/Time: 8/9/17 12:00

Sample Matrix: AIR

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 19.8	19.8	
Tetrachloroethene	303	31.9	1
trans-1,2-Dichloroethene	< 39.6	39.6	
Trichloroethene	< 1.07	1.07	
Vinyl Chloride	< 1.28	1.28	
4-bromofluorobenzene (surrogate)	119%		
Analysis Date/Time:	8-12-17/15:27		
Analyst Initials	tjg		



EnvisionAir
1441 Sadler Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Client Name: ENVIROFORENSICS

Project ID: 6348

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2017-437

Analytical Method: TO-15
Analytical Batch: 081117CAIR

Client Sample ID: 6348-107-IA-B

Sample Collection START Date/Time: 8/7/17 9:18

Sample Collection END Date/Time: 8/8/17 9:18

Envision Sample Number: 17-1726

Sample Received Date/Time: 8/9/17 12:00

Sample Matrix: AIR

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 19.8	19.8	
Tetrachloroethene	165	31.9	1
trans-1,2-Dichloroethene	< 39.6	39.6	
Trichloroethene	< 1.07	1.07	
Vinyl Chloride	< 1.28	1.28	
4-bromofluorobenzene (surrogate)	91%		
Analysis Date/Time:	8-12-17/16:05		
Analyst Initials	tjg		



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 1441 Sadlier Circle West Drive
 Indianapolis, IN 46239
 Ph: 317-351-0885
 Fax: 317-351-0882
 www.envision-air.com

Client Name: ENVIROFORENSICS

Project ID: 6348

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2017-437

Analytical Method: TO-15
Analytical Batch: 081117CAIR

Client Sample ID: 6348-105-IA-1

Sample Collection START Date/Time: 8/7/17 9:15

Sample Collection END Date/Time: 8/8/17 8:30

Envision Sample Number: 17-1727
Sample Matrix: AIR

Sample Received Date/Time: 8/9/17 12:00

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 19.8	19.8	
Tetrachloroethene	132	3.19	
trans-1,2-Dichloroethene	< 39.6	39.6	
Trichloroethene	< 1.07	1.07	
Vinyl Chloride	< 1.28	1.28	
4-bromofluorobenzene (surrogate)	106%		
Analysis Date/Time:	8-12-17/16:43		
Analyst Initials	tjg		

Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number: 081117CAIR

<u>Method Blank (MB):</u>	<u>MB Results (ppbv)</u>	<u>Reporting Limit (ppbv)</u>	<u>Flags</u>
cis-1,2-Dichloroethene	< 5	5	
Tetrachloroethene	< 0.47	0.47	
trans-1,2-Dichloroethene	< 10	10	
Trichloroethene	< 0.2	0.2	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	92%		
Analysis Date/Time:	8-12-17/02:12		
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>
Vinyl Chloride	11.3	11.3	10	113%	113%	0.0%	
trans-1,2-Dichloroethene	11.6	11.6	10	116%	116%	0.0%	
cis-1,2-Dichloroethene	11.2	11.1	10	112%	111%	0.9%	
Trichloroethene	9.85	10	10	99%	100%	1.5%	
Tetrachloroethene	9.49	9.45	10	95%	95%	0.4%	
4-bromofluorobenzene (surrogate)	104%	103%					
Analysis Date/Time:	8-12-17/00:56	8-12-17/01:37					
Analyst Initials	tjg	tjg					



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1441 Sadlier Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Flag Number

1

Comments

Reported value is from a 10x dilution. TJG 08-17-17

CHAIN OF CUSTODY RECORD

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

Client: <u>Enviso Forensics</u>	P.O. Number: <u>2017-0929</u>
Report Address: <u>N16 W23390 Stone Ridge Sub G Waukesha, WI 53188</u>	Project Name or Number: <u>6348</u>
Report To: <u>B. Kappen</u>	Sampled by: <u>BK</u>
Phone: <u>317 972 7823</u>	QA/QC Required: (circle if applicable) Level III <u>Level IV</u>
Invoice Address:	Reporting Units needed: (circle) <u>ug/m³</u> mg/m ³ PPBV PPMV
Desired TAT: (Please Circle One) <u>1 day</u> 2 days 3 days <u>Std (5 bus. days)</u>	Media type: ILC = 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 <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
6348-0A	6LC	8/7/17	0930	8/8/17	0825		X		11083	04657	-27	-5	-5	17-1724
6348-105-IA-B	6LC	8/7/17	0910	8/8/17	0835		X		20668	67254	-29	-5	-5	17-1725
6348-107-IA-B	6LC	8/7/17	0918	8/8/17	0918		X		15563	03053	-29	0	Ø	17-1726
6348-105-IA-1	6LC	8/7/17	0915	8/8/17	0830		X		91608	03059	-30	-9	-9	17-1727

Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
	8/8/17	1600		8/9/17	1200



EnvisionAir
1441 Sadlier Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Mr. Brian Kappen
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

August 21, 2017

EnvisionAir Project Number: 2017-434
Client Project Name: 6348

Dear Mr. Kappen,

Please find the attached analytical report for the samples received August 9, 2017. 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 "Stanley A. Hunnicutt".

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC



EnvisionAir
 1441 Sadlier Circle West Drive
 Indianapolis, IN 46239
 Ph: 317-351-0885
 Fax: 317-351-0882
 www.envision-air.com

Client Name: ENVIROFORENSICS
Project ID: 6348
Client Project Manager: BRIAN KAPPEN
EnvisionAir Project Number: 2017-434

Sample Summary

Canister Pressure / Vacuum

<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>Collected:</u>	<u>Collected:</u>							
17-1721	6348-EP-2	A	8/8/17	9:02	8/8/17	9:08	8/9/17	12:00	-28	-2	-2



EnvisionAir
 1441 Sadlier Circle West Drive
 Indianapolis, IN 46239
 Ph: 317-351-0885
 Fax: 317-351-0882
 www.envision-air.com

Client Name: ENVIROFORENSICS

Project ID: 6348

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2017-434

Analytical Method: TO-15
Analytical Batch: 081917AIR

Client Sample ID: 6348-EP-2

Sample Collection START Date/Time: 8/8/17 9:02

Sample Collection END Date/Time: 8/8/17 9:08

Envision Sample Number: 17-1721

Sample Received Date/Time: 8/9/17 12:00

Sample Matrix: AIR

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	317	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	146	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	99%		
Analysis Date/Time:	08-19-17/02:58		
Analyst Initials	tjg		



EnvisionAir
 1441 Sadlier Circle West Drive
 Indianapolis, IN 46239
 Ph: 317-351-0885
 Fax: 317-351-0882
 www.envision-air.com

Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number: 081917AIR

<u>Method Blank (MB):</u>	<u>MB Results (ppbv)</u>	<u>Reporting Limit (ppbv)</u>	<u>Flags</u>
cis-1,2-Dichloroethene	< 5	5	
Tetrachloroethene	< 0.47	0.47	
trans-1,2-Dichloroethene	< 10	10	
Trichloroethene	< 0.2	0.2	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	93%		
Analysis Date/Time:	08-18-17/15:02		
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>
Vinyl Chloride	10.1	9.84	10	101%	98%	2.6%	
trans-1,2-Dichloroethene	10.6	10.8	10	106%	108%	1.9%	
cis-1,2-Dichloroethene	10.2	10.3	10	102%	103%	1.0%	
Trichloroethene	10.9	11.3	10	109%	113%	3.6%	
Tetrachloroethene	8.82	8.77	10	88%	88%	0.6%	
4-bromofluorobenzene (surrogate)	97%	96%					
Analysis Date/Time:	08-18-17/13:44	08-18-17/14:26					
Analyst Initials	tjg	tjg					



EnvisionAir
1441 Sadlier Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Flag Number

Comments

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>2017-0929</u>
Report Address: <u>1016 W. 38th St. Suite 6 Wichita, KS 67213</u>	Project Name or Number: <u>6348</u>
Report To: <u>B. Kappen</u>	Sampled by: <u>[Signature]</u> <u>SK</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>Std (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 <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
6348-EP-2	1LC	8/8/17	0903	8/8/17	0908	X			515	NA	-28	-2	-2	17-1721

Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
<u>[Signature]</u>	8/8/17	1608	<u>[Signature]</u>	8/19/17	1200

