

March 1, 2019

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 February 14-15, 2019. 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 report that relates to the samples are also attached.

As listed on the attached table, PCE was detected in basement samples 6348-105-IA-B and 6348-107-IA-B at concentrations of 41.8 and 9.09 micrograms per cubic meter ($\mu g/m^3$), respectively. PCE was also detected in first floor air sample 6348-105-IA-1 at a concentration of 13.2 $\mu g/m^3$. These PCE concentrations are *all below* the WDNR's vapor action level (VAL) for small commercial buildings of 180 $\mu g/m^3$. No other chemicals of concern were detected in the indoor air samples.

Soil gas sample 6348-EP-2 contained PCE at a concentration of 52.9 μ g/m³, and trichloroethene (TCE) at a concentration of 317 μ g/m³. These results confirm that the sub-slab depressurization system continues to capture sub-slab vapor as intended.

Document: 6348-0761 EnviroForensics, LLC

N16 W23390 Stone Ridge Dr, Suite G, Waukesha, WI 53188

Phone: 262-290-4001 • Fax 317-972-7875



The concentrations of PCE in the basement and first floor air samples are all below the VAL for the first time since the sampling program began. These results demonstrate that remediation at the Harborview Cleaners property has reduced the vapor intrusion risk in your building. The next air sampling event is tentatively scheduled for August 2019.

If you have any questions or would like us to discuss these results with you, 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

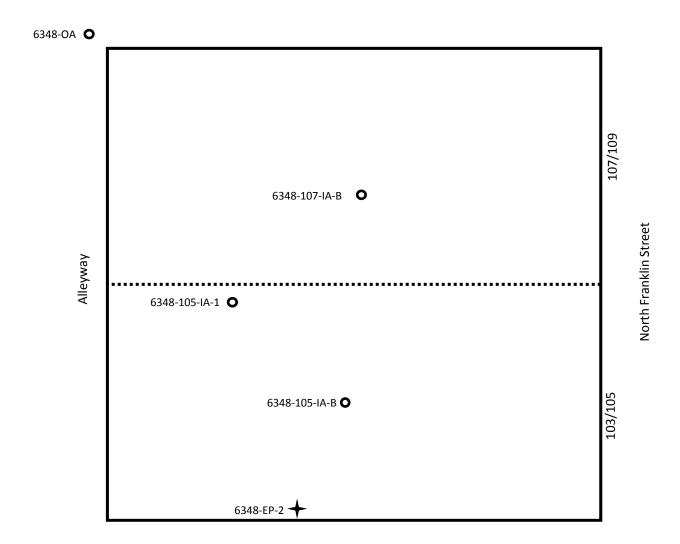
Attachments: Vapor Intrusion Sample Locations Figure

Sample Results Summary Table Laboratory Analytical Report

Copy: John Feeney, Wisconsin Department of Natural Resources

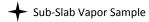
Rob Thiboldeaux, Department of Health Services

VAPOR INTRUSION SAMPLE LOCATIONS 103 through 109 N. Franklin Street, Port Washington, Wisconsin



Legend

O Indoor/Outdoor Air Sample



IA-B = Basement IA-1 = 1st Floor IA = 2nd Floor





TABLE 1

VAPOR INTRUSION ASSESSMENT RESULTS SUMMARY - 105-107 NORTH FRANKLIN STREET

Harborview Cleaners 134 E. Grand Avenue Port Washington, Wisconsin

Sample Identification	Sample Location	Sample Date	Exposure Criteria	Mitigation	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
			INDOO	R/OUTDOOR A	AIR				
	Small Com	mercial Vapo	r Action Level		180	8.8	NE	NE	28
		1/13/2016		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
6249 OA	Ontdoon	11/2/2016	Small Commercial	Post	16.9	<1.07	< 3.96	< 3.96	< 0.64
6348-OA	Outdoor	8/8/2017	Sman Commercial	Post	<3.19	<1.07	<19.8	<39.6	<1.28
		2/27/2018		Post	<3.19	<1.07	<19.8	<39.6	<1.28
		2/15/2019		Post	<3.19	<1.07	<19.8	<39.6	<1.28
		12/2/2015		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
6348-105-IA-B	Basement	11/2/2016	Small Commercial	Post	402	<1.07	<3.96	<3.96	< 0.64
		8/8/2017		Post	303	<1.07	<19.8	<39.6	<1.28
		2/27/2018		Post	324	<1.07	<19.8	<39.6	<1.28
		2/15/2019		Post	41.8	<1.07	<19.8	<39.6	<1.28
		12/2/2015		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
6348-107-IA-B	Basement	11/2/2016	Small Commercial	Post	188	<1.07	<3.96	<3.96	<0.64
0310 107 111 B	Busement	8/8/2017	Sinan Commercial	Post	165	<1.07	<19.8	<39.6	<1.28
		2/27/2018		Post	13.5	<1.07	<19.8	<39.6	<1.28
		2/15/2019		Post	9.09	<1.07	<19.8	<39.6	
6348-105/107-IA-1	1st Floor	12/2/2015	Small Commercial	Pre					<1.28 <1.28
0548-105/107-1A-1	18t F100f		Sman Commerciai		199	<1.07	<19.8	<39.6	
		1/13/2016		Pre	296	<1.07	<3.96	<3.96	< 0.64
		5/24/2016		Post	1,480	<1.07	<3.96	<3.96	< 0.64
6348-105-IA-1	1st Floor	11/2/2016	Small Commercial	Post	277	<1.07	<3.96	<3.96	<0.64
		8/8/2017		Post	132	<1.07	<19.8	<39.6	<1.28
		2/27/2018		Post	53.0	<1.07	<19.8	<39.6	<1.28
10.10.10= 71.1	4	2/15/2019		Post	13.2	<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
	N 6			SLAB VAPOR					
Sn	nall Commer	_	sk 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
		11/2/2016		Post	4,480	107	<39.6	<39.6	<6.4
6348-EP-2	Basement	8/8/2017	NA	Post	317	146	<198	<396	<12.8
		2/27/2018		Post	120	<10.7	<198	<396	<12.8
		2/15/2019		Post	52.9	317	<198	<396	<12.8

Notes:

Results reported in microgragms 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.

NA = not applicable for comparison to screening levels (SSDS exhaust sample)

NE = Screening/action level not established

Bolded values are above detection limits

Bolded and orange shaded values exceed the applicable screening or action level for small commercial buildings





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www.envision-air.com

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

February 28, 2019

EnvisionAir Project Number: 2019-144

Client Project Name: 6348

Dear Mr. Vander Heiden,

Please find the attached analytical report for the samples received February 21, 2019. 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

Stanley O. Thunnicutt

Project Manager EnvisionAir, LLC



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Client Name: ENVIROFORENSICS

Project ID: 6348

Client Project Manager: KYLE VANDER HEIDEN

EnvisionAir Project Number: 2019-144

Sample Summary

Canister Pressure / Vacuum

			START	START							<u>Lab</u>
			Date	Time	End Date	End Time	Date	Time	Initial Field	Final Field	Received
Laboratory Sample Number:	Sample Description:	Matrix:	Collected:	Collected:	Collected:	Collected:	Received:	Received	(in. Hg)	(in. Hg)	(in. Hg)
19-623	6348-105-IA-1	Α	2/14/19	8:55	2/15/19	8:50	2/21/19	13:20	-29	-5	-5
19-624	6348-105-IA-B	Α	2/14/19	9:05	2/15/19	9:02	2/21/19	13:20	-29	0	0
19-625	6348-107-IA-B	Α	2/14/19	9:00	2/15/19	8:53	2/21/19	13:20	-29	0	0
19-626	6348-OA	Α	2/14/19	8:45	2/15/19	8:45	2/21/19	13:20	-29	-4	-4
19-627	6348-EP-2	Α	2/15/19	9:16	2/15/19	9:21	2/21/19	13:20	-28	-2	-2



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Client Name: ENVIROFORENSICS

Project ID: 6348

Client Project Manager: KYLE VANDER HEIDEN

EnvisionAir Project Number: 2019-144

Analytical Method: TO-15 **Analytical Batch:** 022219AIR

Client Sample ID: 6348-105-IA-1 Sample Collection START Date/Time: 2/14/19 8:55

Sample Collection END Date/Time: 2/15/19 8:50 Sample Received Date/Time: 2/21/19 13:20

Envision Sample Number: 19-623

Sample Matrix: AIR

Compounds	Sample Results ug/m ³	Reporting Limit ug/m ³	<u>Flag</u>
cis-1,2-Dichloroethene	< 19.8	19.8	
Tetrachloroethene	13.2	3.19	
trans-1,2-Dichloroethene	< 39.6	39.6	
Trichloroethene	< 1.07	1.07	
Vinyl Chloride	< 1.28	1.28	
4-bromofluorobenzene (surro	gate) 90%		
Analysis Date/Time:	2-22-19/20:44		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS

Project ID: 6348

Client Project Manager: KYLE VANDER HEIDEN

EnvisionAir Project Number: 2019-144

Analytical Method: TO-15
Analytical Batch: 022219AIR

Client Sample ID: 6348-105-IA-B Sample Collection START Date/Time: 2/14/19 9:05

Sample Collection END Date/Time:2/15/199:02Sample Received Date/Time:2/21/1913:20

Envision Sample Number: 19-624
Sample Matrix: AIR

Sample Results ug/m³ Reporting Limit ug/m³ Compounds <u>Flag</u> 19.8 cis-1,2-Dichloroethene < 19.8 Tetrachloroethene 41.8 3.19 trans-1,2-Dichloroethene < 39.6 39.6 Trichloroethene < 1.07 1.07 Vinyl Chloride < 1.28 1.28 4-bromofluorobenzene (surrogate) 101%

4-bromofluorobenzene (surrogate) 101%
Analysis Date/Time: 2-22-19/21:18
Analyst Initials tjg



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Client Name: ENVIROFORENSICS

Project ID: 6348

Client Project Manager: KYLE VANDER HEIDEN

EnvisionAir Project Number: 2019-144

Analytical Method: TO-15
Analytical Batch: 022219AIR

Client Sample ID: 6348-107-IA-B Sample Collection START Date/Time: 2/14/19 9:00

Sample Collection END Date/Time:2/15/198:53Sample Received Date/Time:2/21/1913:20

Envision Sample Number: 19-625 **Sample Matrix:** AIR

Sample Results ug/m³ Reporting Limit ug/m³ Compounds <u>Flag</u> 19.8 cis-1,2-Dichloroethene < 19.8 9.09 Tetrachloroethene 3.19 trans-1,2-Dichloroethene < 39.6 39.6 Trichloroethene < 1.07 1.07 Vinyl Chloride < 1.28 1.28 4-bromofluorobenzene (surrogate) 99% Analysis Date/Time: 2-22-19/21:52 Analyst Initials tjg



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Client Name: ENVIROFORENSICS

Project ID: 6348

Client Project Manager: KYLE VANDER HEIDEN

EnvisionAir Project Number: 2019-144

Analytical Method: TO-15 **Analytical Batch:** 022219AIR

Client Sample ID: 6348-OA Sample Collection START Date/Time: 2/14/19 8:45

Sample Collection END Date/Time: 2/15/19 8:45 Sample Received Date/Time: 2/21/19 13:20

Envision Sample Number: 19-626

Sample Matrix: AIR

Compounds	Sample Results ug/m ³	Reporting Limit ug/m ³	<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 (surro	gate) 87%		
Analysis Date/Time:	2-22-19/15:36		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS

Project ID: 6348

Client Project Manager: KYLE VANDER HEIDEN

EnvisionAir Project Number: 2019-144

Analytical Method: TO-15
Analytical Batch: 022419AIR

Client Sample ID: 6348-EP-2 Sample Collection START Date/Time: 2/15/19 9:16

Sample Collection END Date/Time:2/15/199:21Sample Received Date/Time:2/21/1913:20

Envision Sample Number: 19-627 Sample Matrix: AIR

Sample Results ug/m³ Reporting Limit ug/m³ Compounds <u>Flag</u> cis-1,2-Dichloroethene < 198 198 Tetrachloroethene 52.9 31.9 trans-1,2-Dichloroethene < 396 396 Trichloroethene 317 10.7 Vinyl Chloride < 12.8 12.8 4-bromofluorobenzene (surrogate) 85%

Analyst Initials

4-bioinfoliuorobenzene (surrogate)

33 /6

2-24-19/16:50

tjg



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Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number: 022219AIR

Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	<u>Flags</u>
cis-1,2-Dichloroethene	< 5	5	
Tetrachloroethene	< 0.47	0.47	
trans-1,2-Dichloroethene	< 10	10	
Trichlorethene	< 0.2	0.2	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	94%		
Analysis Date/Time:	2-22-19/11:25		
Analyst Initials	tjg		

			LCS/D	LCS	LCSD		
LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	Conc(ppbv)	Rec.	Rec.	<u>RPD</u>	<u>Flag</u>
Vinyl Chloride	10.4	9.89	10	104%	99%	5.0%	
trans-1,2-Dichloroethene	10.4	9.99	10	104%	100%	4.0%	
cis-1,2-Dichloroethene	9.45	8.86	10	95%	89%	6.4%	
Trichloroethene	10.2	9.85	10	102%	99%	3.5%	
Tetrachloroethene	9.43	9.91	10	94%	99%	5.0%	
4-bromofluorobenzene (surrogate)	92%	94%					
Analysis Date/Time:	2-22-19/10:14	2-22-19/10:51					
Analyst Initials	tjg	tjg					



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Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number: 022419AIR

Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	<u>Flags</u>
cis-1,2-Dichloroethene	< 5	5	
Tetrachloroethene	< 0.47	0.47	
trans-1,2-Dichloroethene	< 10	10	
Trichlorethene	< 0.2	0.2	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	97%		
Analysis Date/Time:	2-24-19/13:45		
Analyst Initials	tjg		

			LCS/D	LCS	LCSD		
LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	Conc(ppbv)	Rec.	Rec.	<u>RPD</u>	<u>Flag</u>
Vinyl Chloride	10.2	10.4	10	102%	104%	1.9%	
trans-1,2-Dichloroethene	9.03	9.93	10	90%	99%	9.5%	
cis-1,2-Dichloroethene	9.17	9.15	10	92%	92%	0.2%	
Trichloroethene	9.91	10	10	99%	100%	0.9%	
Tetrachloroethene	9.15	9.28	10	92%	93%	1.4%	
4-bromofluorobenzene (surrogate)	108%	102%					
Analysis Date/Time:	2-24-19/12:01	2-24-19/12:38					
Analyst Initials	tjg	tjg					



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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: Enviraforensics	المار	P.O. N	umber: 7	2019-0	161		DE	QUESTED	DADAME	TEDS				
Report N16 W23390 5 Address: Sute6 Wadteshan	tone Ridge w 53168	Project	Name or	Number:			K	Social States of the state of t	/SS	//_				
Report To: K. Vander Heid	en/B-ka	Sample	ed by: K	V	A CONTROL OF THE CONT			/ /8	4/		F	WI	SIC	NAIR
Phone: (262) 290-4001	3	QA/QC	Required Lev	: (circle if app	licable) IA	orly			//,	Sampling Type				
Invoice Address:		Report ug/m	ing Units mg/n	needed: (cir n³ PPBV	cle) PPMV		THE THE		//	Soil-Gas: Sub-Slab:	•	www.en	vision-air.c	om
Desired TAT: (Please Circle On 1 day 2 days 3 days Std (5 bus. days)		: 1LC = 1 Lite 6LC = 6 Lite TB = Tedlar TD = Thern	r Canister	oe .	1	21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5///		Indoor-Air: 🕱	Caniste	r Pressure /	Vacuum	
Air Sample ID	Media Type (see code above)	Coll. Date (Grab/comp	Coll. Time	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
6348-105-IA-1	6LC	2/14/19	NAME OF TAXABLE PARTY O	2/15/19	08:50		X		14114	05307	-29	-5	-5	19-623
6348-105-IA-B	6LC	2/14/19	09:05	2/15/19	09:02		X		17894	07442	-29	G	Ø	19-624
6348-107-IA-B	6LC	2/14/19	09:00	2/15/19	08:53		X		16023	03065	-29	O	0	19-625
6348-0A	6LC	2/14/19	08:45	2/15/19	08:45		X		4695	05297	-29	-4	-4	19-626
6348-EP-Z	ILC	2/15/19	09:16	2/15/19	09:21		×		2235	0025	-28	-2	-2	19-627
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