



December 30, 2021

Jeremy Trad  
3677 East Squire Avenue  
Cudahy, WI 53110

**Subject: Environmental Investigation Sampling Results**  
**BRRTS#: 02-41-515150**

Dear Mr. Trad:

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, EnviroForensics, LLC. (EnviroForensics) is providing the results of environmental samples collected from your property located at 3677 East Squire Avenue in Cudahy, Wisconsin. Indoor air and sub-slab vapor samples were collected on June 21-22, 2021. The sampling activities are part of an environmental investigation being performed for the former Packard Way Cleaners facility located at 3650-3652 East Barnard Avenue in Cudahy 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:

Packard Way Cleaners (former)  
3650-3652 E. Barnard Ave.  
Cudahy, WI

### **Sampling Results**

Two indoor air samples were collected from within your home; one (1) in the basement (6306-3677 Squire IA-B) and one (1) on the second floor (6306-3677 Squire IA-2). Additionally, one (1) sub-slab vapor sample (6306-3677 Squire-SSV-1) was collected from beneath the basement floor of your home. An outdoor sample was collected during the same period to rule out any background conditions. The sampling locations are depicted on the attached **Figure 1**. The results of the indoor air and 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 vapor samples is also attached.

PCE was detected in the sub-slab vapor sample; however the concentration was below the respective Vapor Risk Screening Levels established for residential buildings. No other chemicals of concern were detected in the sub-slab vapor samples. No other chemicals of concern were detected in the indoor air samples.

At this time there is not a vapor risk to your building. We will contact you to to schedule the next sampling event, if needed. If you have any questions or concerns, please contact us at 262-510-0612 or by email at [rhoverman@enviroforensics.com](mailto:rhoverman@enviroforensics.com). The WDNR project manager, Issac Ross, can be reached at 414 263-8519. We greatly appreciate your help and patience with this matter.

Sincerely,  
**EnviroForensics, LLC**

Rob Hoverman, PG  
*Senior Project Manager*

Copy:  
Connor Mulcahy, Wisconsin Department of Natural Resources

Attachments:

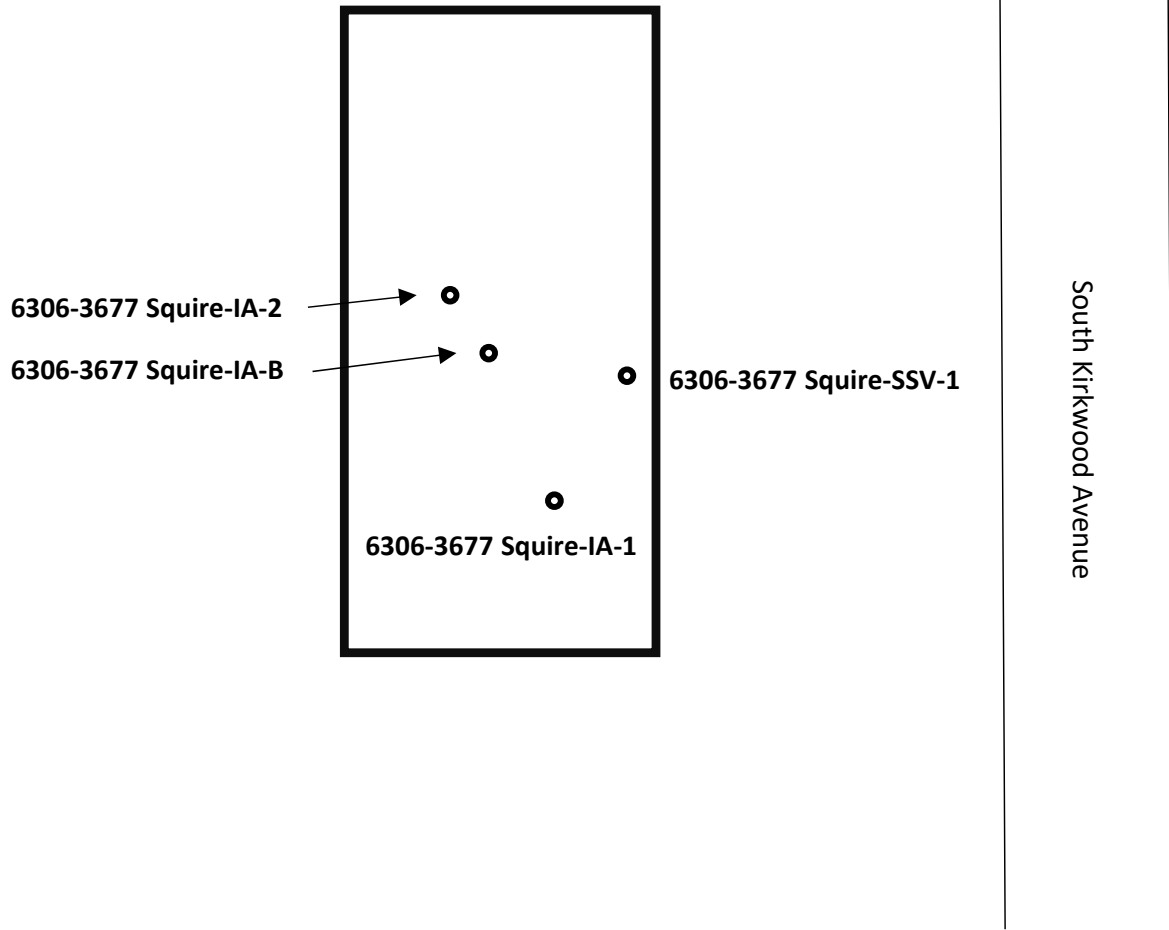
Figure 1 – Vapor Intrusion Sample Locations  
Table 1 – Vapor Intrusion Analytical Results  
Laboratory Analytical Report Excerpt

**FIGURE 1**  
**VAPOR INTRUSION SAMPLE LOCATIONS**  
**3677 E Squire Avenue, Cudahy, Wisconsin**

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East Squire Avenue

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●  
6306-OA

**Legend**

- = Indoor/Outdoor/Sub-slab Air Sample
- IA-B = Basement
- IA-2 = 2<sup>nd</sup> Floor



**TABLE 4**  
**VAPOR INTRUSION ANALYTICAL RESULTS**

Packard Way, Ltd.  
3650-3652 East Barnard Avenue  
Cudahy, WI

Sample Address	Consultant	Sample Identification	Sample Location	Applicable Criteria	Sample Duration	Date Sampled	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
<b>INDOOR/OUTDOOR AIR SAMPLES</b>											
<b>Residential Vapor Action Level</b>							<b>42</b>	<b>2.1</b>	<b>NE</b>	<b>42</b>	<b>1.7</b>
3677 East Squire Avenue	EnviroForensics	6306-3677 Squire-IA-2	2nd Floor	Residential	24-Hour	7/21/2021	<3.19	<1.07	<19.8	<39.6	<1.28
		6306-3677 Squire-IA-1	1st Floor			12/9/2021	<3.19	<1.07	<19.8	<39.6	<1.28
		6306-3677 Squire-IA-B	Basement			12/9/2021	<3.19	<1.07	<19.8	<39.6	<1.28
						7/21/2021	<3.19	<1.07	<19.8	<39.6	<1.28
				12/9/2021		<3.19	<1.07	<19.8	<39.6	<1.28	
		6306-OA	Outdoors	Not Applicable		7/21/2021	<3.19	<1.07	<19.8	<39.6	<1.28
						12/9/2021	<3.19	<1.07	<19.8	<39.6	<1.28
<b>SUB-SLAB VAPOR SAMPLES</b>											
<b>Residential Vapor Risk Screening Level</b>							<b>1,400</b>	<b>70</b>	<b>NE</b>	<b>1400</b>	<b>57</b>
3677 East Squire Avenue	EnviroForensics	6306-3677 Squire-SSV-1	Basement	Residential	Grab	7/22/2021	<b>128</b>	<10.7	<198	<396	<12.8
						12/10/2021	<31.9	<10.7	<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

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

IA = Indoor Air

OA = Outdoor Air

SSV = Sub-slab vapor

**Bolded** values are above detection limits

**Bolded** and Blue shaded concentrations exceed the applicable residential screening level

NE = Screening/action level not established



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

December 29, 2021

EnvisionAir Project Number: 2021-605  
Client Project Name: 6306 – Parkard Way Cleaners

Dear Mr. Hoverman,

Please find the attached analytical report for the samples received December 13, 2021. 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 black ink that reads "David Norris".

David Norris  
Project Manager  
EnvisionAir, LLC



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**Client Name:** ENVIROFORENSICS  
**Project ID:** 6306 - PACKARD WAY CLEANERS  
**Client Project Manager:** ROB HOVERMAN  
**EnvisionAir Project Number:** 2021-605

**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>Canister Pressure / Vacuum</u>		<u>Lab</u>
			<u>Date</u>	<u>Time</u>					<u>Initial Field</u>	<u>Final Field</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>
21-2877	6306-3677-SQUIRE-IA-2	A	12/9/21	15:11	12/10/21	15:00	12/13/21	12:00	-29	-5	-5
21-2878	6306-3677-SQUIRE-IA-1	A	12/9/21	15:15	12/10/21	15:15	12/13/21	12:00	-28	-1	-1
21-2879	6306-3677-SQUIRE-IA-B	A	12/9/21	15:17	12/10/21	15:05	12/13/21	12:00	-28	-8	-8
21-2880	6306-OA	A	12/9/21	14:05	12/10/21	14:40	12/13/21	12:00	-28	0	0
21-2881	6306-3677-SQUIRE-SV-1	A	12/10/21	15:35	12/10/21	15:39	12/13/21	12:00	-28	-3	-3



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**Client Name:** ENVIROFORENSICS  
**Project ID:** 6306 - PACKARD WAY CLEANERS  
**Client Project Manager:** ROB HOVERMAN  
**EnvisionAir Project Number:** 2021-605

**Analytical Method:** TO-15  
**Analytical Batch:** 121321CAIR

**Client Sample ID:** 6306-3677 SQUIRE-IA-2  
**EnvisionAir Sample Number:** 21-2877  
**Sample Matrix:** AIR

**Sample Collection START Date/Time:** 12/9/21 15:11  
**Sample Collection END Date/Time:** 12/10/21 15:00  
**Sample Received Date/Time:** 12/13/21 12:00

<u>Compounds</u>	<u>Sample Results ug/m<sup>3</sup></u>	<u>Reporting Limit ug/m<sup>3</sup></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)	92%		
Analysis Date/Time:	12-14-21/02:20		
Analyst Initials	tjg		



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**Project ID:** 6306 - PACKARD WAY CLEANERS  
**Client Project Manager:** ROB HOVERMAN  
**EnvisionAir Project Number:** 2021-605

**Analytical Method:** TO-15  
**Analytical Batch:** 121321CAIR

**Client Sample ID:** 6306-3677 SQUIRE-IA-1  
**EnvisionAir Sample Number:** 21-2878  
**Sample Matrix:** AIR

**Sample Collection START Date/Time:** 12/9/21 15:15  
**Sample Collection END Date/Time:** 12/10/21 15:15  
**Sample Received Date/Time:** 12/13/21 12:00

<u>Compounds</u>	<u>Sample Results ug/m<sup>3</sup></u>	<u>Reporting Limit ug/m<sup>3</sup></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)	90%		
Analysis Date/Time:	12-14-21/03:04		
Analyst Initials	tjg		





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**Project ID:** 6306 - PACKARD WAY CLEANERS  
**Client Project Manager:** ROB HOVERMAN  
**EnvisionAir Project Number:** 2021-605

**Analytical Method:** TO-15  
**Analytical Batch:** 121321CAIR

**Client Sample ID:** 6306-3677 SQUIRE-IA-B  
**EnvisionAir Sample Number:** 21-2879  
**Sample Matrix:** AIR

**Sample Collection START Date/Time:** 12/9/21 15:17  
**Sample Collection END Date/Time:** 12/10/21 15:05  
**Sample Received Date/Time:** 12/13/21 12:00

<u>Compounds</u>	<u>Sample Results ug/m<sup>3</sup></u>	<u>Reporting Limit ug/m<sup>3</sup></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)	102%		
Analysis Date/Time:	12-14-21/03:50		
Analyst Initials	tjg		



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**Project ID:** 6306 - PACKARD WAY CLEANERS  
**Client Project Manager:** ROB HOVERMAN  
**EnvisionAir Project Number:** 2021-605

**Analytical Method:** TO-15  
**Analytical Batch:** 121321CAIR

**Client Sample ID:** 6306-OA  
**EnvisionAir Sample Number:** 21-2880  
**Sample Matrix:** AIR

**Sample Collection START Date/Time:** 12/9/21 14:05  
**Sample Collection END Date/Time:** 12/10/21 14:40  
**Sample Received Date/Time:** 12/13/21 12:00

<u>Compounds</u>	<u>Sample Results ug/m<sup>3</sup></u>	<u>Reporting Limit ug/m<sup>3</sup></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)	103%		
Analysis Date/Time:	12-13-21/20:43		
Analyst Initials	tjg		



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**Project ID:** 6306 - PACKARD WAY CLEANERS  
**Client Project Manager:** ROB HOVERMAN  
**EnvisionAir Project Number:** 2021-605

**Analytical Method:** TO-15  
**Analytical Batch:** 121321CAIR

**Client Sample ID:** 6306-3677 SQUIRE-SSV-1  
**EnvisionAir Sample Number:** 21-2881  
**Sample Matrix:** AIR

**Sample Collection START Date/Time:** 12/10/21 15:35  
**Sample Collection END Date/Time:** 12/10/21 15:39  
**Sample Received Date/Time:** 12/13/21 12:00

<u>Compounds</u>	<u>Sample Results ug/m<sup>3</sup></u>	<u>Reporting Limit ug/m<sup>3</sup></u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	< 31.9	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	105%		
Analysis Date/Time:	12-14-21/20:37		
Analyst Initials	tjg		

**TO-15 Quality Control Data**

**EnvisionAir Batch Number:** 121321CAIR

<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:	12-13-21/19:19		
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	9.91	9.19	10	99%	92%	7.5%	
trans-1,2-Dichloroethene	10.3	9.62	10	103%	96%	6.8%	
cis-1,2-Dichloroethene	10.4	10.2	10	104%	102%	1.9%	
Trichloroethene	9.46	9.62	10	95%	96%	1.7%	
Tetrachloroethene	9.51	9.6	10	95%	96%	0.9%	
4-bromofluorobenzene (surrogate)	99%	108%					
Analysis Date/Time:	12-13-21/17:53	12-13-21/18:41					
Analyst Initials	tjg	tjg					



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Flag Number

Comments

# CHAIN OF CUSTODY RECORD

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

P.O. Number:

Project Name or Number: 6306

Address: [enviro@ensics.com](mailto:enviro@ensics.com) *Rakand Way Cleaners*

Report To: *Rob Haerman* *R Brown*

Phone: *262-290-4001* *QA/QC Required: (circle if applicable) Level III Level IV*

Invoice Address: *Accounts Payable*  
*enviro@ensics.com*

Media type: *11C = 1 Liter Canister*  
*6B = 6 Liter Canister*  
*TD = Thermal Description Tube*

Desired TAT: (Please Circle One)  
*1 day 2 days 3 days Std (5 bus. days)*

## REQUESTED PARAMETERS

*TO-15 Full List*  
*TO-15 Short List (Specify in notes)*



### Sampling Type:

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

[www.envision-air.com](http://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
6306-3677 SOURCE-1A-2	6LC	12-9-11	1511	12-10-11	1500	91607	05716	-29	-5	.5	21-2877
6306-3677 SOURCE-1A-1			1515		1515	15565	07437	-28	-1	-1	2878
6306-3677 SOURCE-1A-B			1514		1505	16026	07621	-28	-8	-2	2879
6306-0A			1405		1440	17903	07460	-28	0	0	2880
6306-3677 SOURCE-SSV-1	1LC	12-10-11	1535	12-10-11	1539	2225	0085	-28	-3	-3	2881

Comments:

*SHORT LIST: PCE, TCE, CDCE, TDCE, VC*

Relinquished by:	Date	Time	Received by:	Date	Time
<i>RL</i>	12-10-11	1630	<i>REDEX</i>	12-10-11	1630
			<i>Henry J. Quinn</i>	12-13-11	12:00