

March 17, 2021

David Bieno 109 Mullet Street Portage, WI 53901

Subject: Vapor Intrusion Sampling Results – 105 Warren Street, Portage, Wisconsin BRRTS: 02-11-512824

Dear Mr. Bieno:

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 109 Mullet Street in Portage, Wisconsin. The samples were collected on March 2-3, 2021. The sampling activities are part of an environmental investigation being performed for the Portage Cleaners facility located at 104 West Wisconsin Street in Portage 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:

Portage Cleaners 104 West Wisconsin Street Portage, WI

Sampling Results

Three indoor air samples designated 6493-109-IA-1, 6493-109-IA-2 and 6493-109-IA-3 were collected from within the building. For quality control purposes a sample of outdoor ambient air designated 6493-OA-1 was collected. Additionally, three (3) sub-slab vapor sample designated 6493-109-SSV-1, 6493-109-SSV-2 and 6493-109-SSV-3 were collected from beneath the floor of your building. The sampling locations are depicted on the attached **Figure 1**. The results of the vapor samples are summarized and compared to WDNR standards on the attached **Table 1** with the previous results. A copy of the laboratory report that relates to the vapor samples is also attached.

Document: 6493-0246 EnviroForensics, LLC N16 W23390 Stone Ridge Drive, Suite G Waukesha, WI 53188 Phone: 262-290-4001 • Fax 317.972.7875 March 17, 2021



PCE was detected in the indoor air samples and the sub-slab vapor samples, but at a concentration below the Vapor Risk Screening Level (VRSL). No other compounds were detected in the sub-slab sample.

Mitigation of potential vapors at your property is <u>not</u> necessary and we do <u>not</u> recommend any further testing. If you have any questions or concerns, please contact us at 262-510-0612 or by email at <u>rhoverman@enviroforensics.com</u>. The WDNR project manager, Larry Lester, can be reached at 608-275-3465. We greatly appreciate your help and patience with this matter.

Sincerely, EnviroForensics, LLC

Rob Hoverman, LPG Senior Project Manager

TLN

Rebecca Brown Field Professional

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

Copy: Larry Lester, Wisconsin Department of Natural Resources

FIGURE 1 VAPOR INTRUSION SAMPLE LOCATIONS 109 Mullet Street, Portage Wisconsin

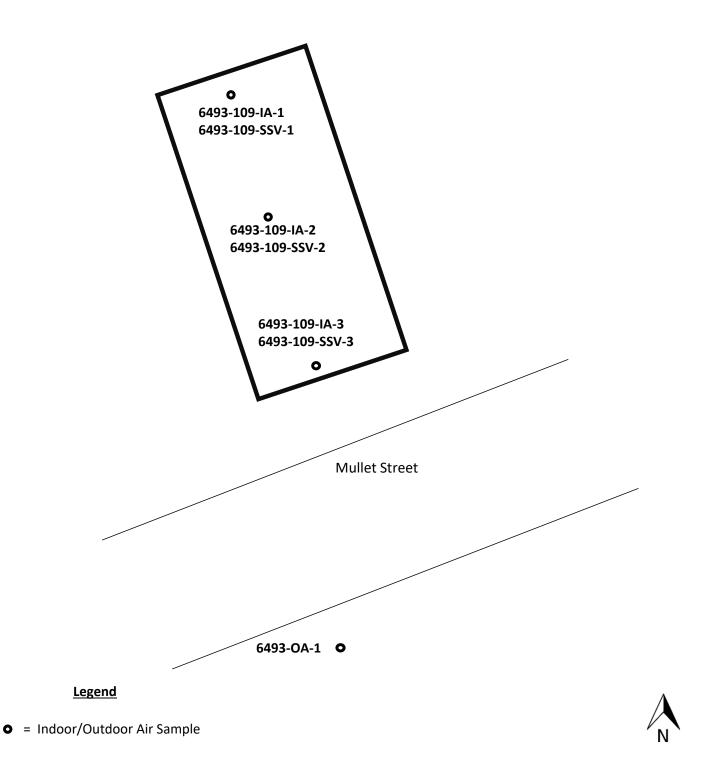




TABLE 1 VAPOR INTRUSION ANALYTICAL RESULTS

Portage Cleaners 104 E. Wisconsin St Portage, WI 53901

Sample Address	Sample Identification	Sample Date	Applicable Criteria	Mitigation	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
	•	INI	DOOR/OUTI	DOOR AIR		•	•		
Resider	ntial Vapor Action Limit				42	2.1	NE	NE	1.7
Small Com	mercial Vapor Action Limit				180	8.8	NE	NE	28.0
		03/16/18			32.2	<1.07	<19.8	<39.6	<1.28
	6493-109-IA-1	1/26/2021		No	<3.19	<1.07	<19.8	<39.6	<1.28
		3/2/2021			8.95	<1.07	<19.8	<39.6	<1.28
		03/16/18			18.2	<1.07	<19.8	<39.6	<1.28
	6493-109-IA-2	1/26/2021		No	5.29	<1.07	<19.8	<39.6	<1.28
100 W. M. H. (C)		3/2/2021			12.9	<1.07	<19.8	<39.6	<1.28
109 W. Mullet St.		03/16/18	Commercial		27.8	<1.07	<19.8	<39.6	<1.28
	6493-109-IA-3	1/26/2021		No	5.90	<1.07	<19.8	<39.6	<1.28
		3/2/2021	-		13.0	<1.07	<19.8	<39.6	<1.28
		03/16/18			<3.19	<1.07	<19.8	<39.6	<1.28
	6493-OA-1	1/26/2021		No	<3.19	<1.07	<19.8	<39.6	<1.28
		3/2/2021			<3.19	<1.07	<19.8	<39.6	<1.28
	Į		SUB-SLAB	APOR					
Residential	Vapor Risk Screening Level				1,400	70	NE	NE	57
Small Com	mercial Vapor Action Limit				6,000	290	NE	NE	930
		8/7/2017			3,090	<10.7	<198	<396	<12.8
		1/23/2018			12,100	<10.7	<198	<396	<12.8
	6493-109-SSV-1	3/16/2018	Small	No	1,480	<1.07	<19.8	<39.6	<1.28
	0495-109-55 V-1	9/30/2020	Commercial	INO	331	<1.07	<19.8	<39.6	<1.28
		1/26/2021			17.4	<1.07	<19.8	<39.6	<1.28
		3/3/2021			36.1	<1.07	<19.8	<39.6	<1.28
		8/7/2017			3,810	<10.7	<198	<396	<12.8
		1/23/2018			18,700	<10.7	<198	<396	<12.8
109 W. Mullet St	6493-109-SSV-2	3/16/2018	Small	No	3,210	19.8	<19.8	<39.6	<1.28
109 Williamot St	0195 109 557 2	9/30/2020	Commercial	110	2,160	2.26	<19.8	<39.6	<1.28
		1/26/2021			510	<1.07	<19.8	<39.6	<1.28
		3/3/2021			191	<1.07	<19.8	<39.6	<1.28
		8/7/2017	4		2,490	<10.7	<198	<396	<12.8
		1/23/2018	-		2,030	<10.7	<198	<396	<12.8
	6493-109-SSV-3	3/16/2018	Small	No	210	11.1	<19.8	<39.6	<1.28
		9/30/2020	Commercial		2,660	<1.07	<19.8	<39.6	<1.28
		1/26/2021	-		3.87	<1.07	<19.8	<39.6	<1.28
		3/3/2021			106	<1.07	<19.8	<39.6	<1.28

Notes:

All concentrations reported in micrograms per cubic meter = $\mu g/m^3$

Samples analyzed according to EPA Method TO-15

The vapor risk screeing levels for residential structures are calculated in accordance with the procedures described in WDNR

Publication RR-800 and subsequent guidance

Only detected compounds are listed

Bolded values are above method detection limits

Bolded and blue shaded values exceed the residential Vapor Risk Screening Level Bolded and orange shaded values exceed the residential Vapor Rick Screening Level

NE = Not Established

IA = Indoor Air

OA = Outdoor Air

SSV = Sub-Slab Vapor



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

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

March 9, 2021

EnvisionAir Project Number: 2021-121 Client Project Name: 6493 – Portage Cleaners

Dear Mr. Hoverman,

Please find the attached analytical report for the samples received March 4, 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,

Stanty O. Munnicutt

Stanley A Hunnicutt

Project Manager EnvisionAir, LLC



ENVIROFORENSICS **Client Name:**

Project ID: 6493 PORTAGE CLEANERS

Client Project Manager:

ROB HOVERMAN

EnvisionAir Project Number: 2021-121

Sample Summary

Laboratory Sample Number:	Sample Description:	<u>Matrix:</u>	START Date Collected:	<u>START</u> <u>Time</u> <u>Collected:</u>	End Date Collected:		Date Received:	<u>Time</u> Received	Initial Field (in. Hg)	<u>Final Field</u> (in. Hg)	Lab Received (in. Hg)
21-635	6493-109-IA-1	A	3/2/21	7:56	3/2/21	15:59	3/4/21	15:30	-30	-3	-3
21-636	6493-109-IA-2	А	3/2/21	7:59	3/2/21	16:00	3/4/21	15:30	-30	-4	-4
21-637	6493-109-IA-3	А	3/2/21	8:02	3/2/21	16:02	3/4/21	15:30	-30	-3	-3
21-638	6493-OA-1	А	3/2/21	8:05	3/2/21	15:56	3/4/21	15:30	-28	0	0
21-639	6493-109-SSV-1	А	3/3/21	13:07	3/3/21	13:12	3/4/21	15:30	-29	-5	-5
21-640	6493-109-SSV-2	А	3/3/21	12:57	3/3/21	13:03	3/4/21	15:30	-30	-5	-5
21-641	6493-109-SSV-3	А	3/3/21	12:49	3/3/21	12:53	3/4/21	15:30	-30	-5	-5

Canister Pressure / Vacuum



Analysis Date/Time:

Analyst Initials

Client Name:	ENVIROFORENSICS			
Project ID:	6493 PORTAGE CLEA	NERS		
Client Project Manager:	ROB HOVERMAN			
EnvisionAir Project Number:	2021-121			
Analytical Method: Analytical Batch:	TO-15 030521AIR			
Client Sample ID:	6493-109-IA-1	Sample Collection START Date/Time:	3/2/21	7:56
EnvisionAir Sample Number: Sample Matrix:	21-635 AIR	Sample Collection END Date/Time: Sample Received Date/Time:	3/2/21 3/4/21	15:59 15:30
Compounds	Sample Results ug/m ³	Reporting Limit ug/m ³	Flag	
cis-1,2-Dichloroethene	< 19.8	19.8		
Tetrachloroethene	8.95	3.19		
trans-1,2-Dichloroethene	< 39.6	39.6		
Trichloroethene	< 1.07	1.07		
Vinyl Chloride	< 1.28	1.28		
4-bromofluorobenzene (surroga	ate) 105%			

3-5-21/07:21



Analysis Date/Time:

Analyst Initials

Client Name:	ENVIROFORENSICS			
Project ID:	6493 PORTAGE CLEA	NERS		
Client Project Manager:	ROB HOVERMAN			
EnvisionAir Project Number:	2021-121			
Analytical Method: Analytical Batch:	TO-15 030521AIR			
Client Sample ID:	6493-109-IA-2	Sample Collection START Date/Time:	3/2/21	7:59
EnvisionAir Sample Number: Sample Matrix:	21-636 AIR	Sample Collection END Date/Time: Sample Received Date/Time:	3/2/21 3/4/21	16:00 15:30
<u>Compounds</u>	Sample Results ug/m ³	Reporting Limit ug/m ³	<u>Flag</u>	
cis-1,2-Dichloroethene	< 19.8	19.8		
Tetrachloroethene	12.9	3.19		
trans-1,2-Dichloroethene	< 39.6	39.6		
Trichloroethene	< 1.07	1.07		
Vinyl Chloride	< 1.28	1.28		
4-bromofluorobenzene (surroga	ate) 103%			
Amelia Dete/Times	0 5 04/00.00			

3-5-21/08:03



Client Name:	ENVIROFORENSICS			
Project ID:	6493 PORTAGE CLEA	NERS		
Client Project Manager:	ROB HOVERMAN			
EnvisionAir Project Number:	2021-121			
Analytical Method: Analytical Batch:	TO-15 030521AIR			
Client Sample ID:	6493-109-IA-3	Sample Collection START Date/Time:	3/2/21	8:02
EnvisionAir Sample Number: Sample Matrix:	21-637 AIR	Sample Collection END Date/Time: Sample Received Date/Time:	3/2/21 3/4/21	16:02 15:30
<u>Compounds</u> cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl Chloride 4-bromofluorobenzene (surroga Analysis Date/Time:	Sample Results ug/m ³ < 19.8 13.0 < 39.6 < 1.07 < 1.28 ate) 98% 3-5-21/08:46	Reporting Limit ug/m³ 19.8 3.19 39.6 1.07 1.28	<u>Flag</u>	

tjg

Analyst Initials



< 1.28

95%

3-5-21/09:29

tjg

Vinyl Chloride

Analyst Initials

Analysis Date/Time:

4-bromofluorobenzene (surrogate)

Client Name:	ENVIROFORENSICS			
Project ID:	6493 PORTAGE CLEA	NERS		
Client Project Manager:	ROB HOVERMAN			
EnvisionAir Project Number:	2021-121			
Analytical Method: Analytical Batch:	TO-15 030521AIR			
Client Sample ID:	6493-OA-1	Sample Collection START Date/Time:	3/2/21 3/2/21	8:05 15:56
EnvisionAir Sample Number: Sample Matrix:	21-638 AIR	Sample Collection END Date/Time: Sample Received Date/Time:	3/4/21	15:30
<u>Compounds</u> cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene	Sample Results ug/m ³ < 19.8 < 3.19 < 39.6 < 1.07	Reporting Limit ug/m ³ 19.8 3.19 39.6 1.07	<u>Flag</u>	

1.28



Analyst Initials

Client Name:	ENVIROFORENSICS			
Project ID:	6493 PORTAGE CLEA	NERS		
Client Project Manager:	ROB HOVERMAN			
EnvisionAir Project Number:	2021-121			
Analytical Method: Analytical Batch:	TO-15 030721AIR			
Client Sample ID:	6493-109-SSV-1	Sample Collection START Date/Time:	3/3/21	13:07
EnvisionAir Sample Number: Sample Matrix:	21-639 AIR	Sample Collection END Date/Time: Sample Received Date/Time:	3/3/21 3/4/21	13:12 15:30
<u>Compounds</u> cis-1,2-Dichloroethene Tetrachloroethene	Sample Results ug/m ³ < 19.8 36.1	Reporting Limit ug/m ³ 19.8 3.19	<u>Flag</u>	
trans-1,2-Dichloroethene	< 39.6	39.6		
Trichloroethene	< 1.07	1.07		
Vinyl Chloride	< 1.28	1.28		
4-bromofluorobenzene (surroga	,			
Analysis Date/Time:	3-7-21/20:29			



Analyst Initials

Client Name:	ENVIROFORENSICS			
Project ID:	6493 PORTAGE CLEA	NERS		
Client Project Manager:	ROB HOVERMAN			
EnvisionAir Project Number:	2021-121			
Analytical Method: Analytical Batch:	TO-15 030721AIR			
Client Sample ID:	6493-109-SSV-2	Sample Collection START Date/Time:	3/3/21	12:57
EnvisionAir Sample Number: Sample Matrix:	21-640 AIR	Sample Collection END Date/Time: Sample Received Date/Time:	3/3/21 3/4/21	13:03 15:30
Compounds	Sample Results ug/m ³ < 19.8	Reporting Limit ug/m ³	Flag	
cis-1,2-Dichloroethene Tetrachloroethene	< 19.0 191	19.8 31.9	1	
trans-1,2-Dichloroethene	< 39.6	39.6		
Trichloroethene	< 1.07	1.07		
Vinyl Chloride	< 1.28	1.28		
4-bromofluorobenzene (surroga	ate) 95%			
Analysis Date/Time:	3-7-21/21:09			



Analyst Initials

Client Name:	ENVIROFORENSICS			
Project ID:	6493 PORTAGE CLEA	NERS		
Client Project Manager:	ROB HOVERMAN			
EnvisionAir Project Number:	2021-121			
Analytical Method: Analytical Batch:	TO-15 030721AIR			
Client Sample ID:	6493-109-SSV-3	Sample Collection START Date/Time:	3/3/21	12:49
EnvisionAir Sample Number: Sample Matrix:	21-641 AIR	Sample Collection END Date/Time: Sample Received Date/Time:	3/3/21 3/4/21	12:53 15:30
<u>Compounds</u> cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl Chloride 4-bromofluorobenzene (surroga Analysis Date/Time:	Sample Results ug/m ³ < 19.8 106 < 39.6 < 1.07 < 1.28 ate) 95% 3-7-21/22:29	Reporting Limit ug/m³ 19.8 3.19 39.6 1.07 1.28	<u>Flag</u>	



LCS LCSD

Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number:	030521AIR		
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:	3-4-21/16:39		
Analyst Initials	tjg		
			LCS/D
LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	Conc(ppbv)

LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	Conc(ppbv)	Rec.	Rec.	RPD Flag
Vinyl Chloride	9.55	9.03	10	96%	90%	5.6%
trans-1,2-Dichloroethene	10	9.73	10	100%	97%	2.7%
cis-1,2-Dichloroethene	10.3	9.22	10	103%	92%	11.1%
Trichloroethene	10	10.2	10	100%	102%	2.0%
Tetrachloroethene	9.86	9.56	10	99%	96%	3.1%
4-bromofluorobenzene (surrogate)	98%	100%				
Analysis Date/Time:	3-4-21/15:16	3-4-21/16:03				
Analyst Initials	tjg	tjg				



4-bromofluorobenzene (surrogate)

Analysis Date/Time:

Analyst Initials

RPD Flag

3.8% 0.1%

5.0% 3.4% 3.2%

Analytical Report

103%

3-7-21/10:31

tjg

TO-15 Quality Control Data

97%

3-7-21/09:44

EnvisionAir Batch Number:	030721AIR				
Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	Flags		
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)	107%				
Analysis Date/Time:	3-7-21/11:09				
Analyst Initials	tjg				
			LCS/D	LCS	LCSD
LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	Conc(ppbv)	Rec.	Rec.
Vinyl Chloride	10.6	10.2	10	106%	102%
trans-1,2-Dichloroethene	9.9	9.89	10	99%	99%
cis-1,2-Dichloroethene	9.75	9.27	10	98%	93%
Trichloroethene	9.13	9.45	10	91%	95%
Tetrachloroethene	9.31	9.61	10	93%	96%



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

Flag Number 1 <u>Comments</u>

Reported value is from a 10x dilution. TJG 03-08-21

				CH/	CHAIN O	F CUSTO	DF CUSTODY RECORD		EnvisionAir Proj#: 2021-121	021-12	Page	of 1
Envisic	nAir 1	441Sa	dlier Circ	le West [)rive Inc	lianapolis, IN	EnvisionAir 1441Sadlier Circle West Drive Indianapolis, IN 46239 Phone: (317) 351-0885 Fax: (317) 351-0882	(317) 351-088	5 Fax: (3	17) 351-(1882	
Client:		P.O. Nu	mber: 2C	P.O. Number: 2021-01	0	DEOI	PEOLIFETED DARAMETERS	FTFRC	[
Report Proz Cryang	woo.	Project	Project Name or N	Project Name or Number: 64	St.		1 200					
Report To: R . H GUEL MAN	CND	Sample	Sampled by:	BROC	5		4 41 53.		5			FNVISIONAID
Phone: 262-260-400	10	QA/QC	Required: Level	QA/QC Required: (circle if applicable) Level III Level IV	icable) el IV		letes it				いて	
Invoice Address: a cuer nts	S.UOM	Reporti ug/m ³	ng Units n mg/m ³	Reporting Units needed: (circle) (ug/m ³) mg/m ³ PPBV PPMV	le) PPMV	Pull List	24.17.18	Soil-Gas: Sub-Slab:	::1			
Desired TAT: (Please Circle One) 1 day 2 days 3 days Std (5 bus.	day	Media type:	1LC = 1 Liter (6LC = 6 Liter C TB = Tedlar B TD = Thermal	LLC = 1 Liter Canister 1LC = 6 Liter Canister TB = Tediar Bag TD = Thermal Desorption Tube	61	101 101	2 102	Ľ	Canister	www.clivisi0lit- Canister Pressure / Vacuum	www.clivision-alf.com ressure / Vacuum	Що
Air Sample ID	Media Type (see code above)	Coll. Date (Grab/Comp start)	Coll. Time	Coll. Date (comp. End)	Coll. Time	ntine litter p littig dountee lawa m ek la pessar, ka	Canister Serial #	r Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
9 1-AT-601-5419		322	95:t	3-2-21	1559	*	91(607	1 5002	-30	3	ņ	21-635
6493-109-IA-2		_	7:59		1000		4657	5302	-30		-4	21-636
6-PT- 1001-54-9			20:8		1007		16034	12227	-30	c_{0}^{\prime}	5	21-637
6493-6A-1	\rightarrow	+	8:8	>	1556		4694	15720	82-	0	Ø	21-638
6493-109-SSV-1 1	LC 3	3-3-21	1307	3-3-21	1312		1844	00200	52-	5	5	21-639
6493-109-524-2			1257		1303		1221	10022	- 20	5	5	21-640
(493-109-551-3	\rightarrow	>	1249	\rightarrow	123	>	12821	10079	22	5	5	21-641
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Comments: Short L	15+:1	RE	TCE	CPC	E, ED	E,VC				- Epublica		
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