



March 17, 2021

Kenneth Fennewald
122 West Mullet Street
Portage, WI 53901

**Subject: Vapor Intrusion Sampling Results – 122 Mullet Street, Portage, Wisconsin
BRRTS: 02-11-512824**

Dear Mr. Fennewald:

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 122 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

Two indoor air samples designated 6493-122 Mullet-IA-C, 6493-122 Mullet-IA-1 and 6493-122 Mullet-IA-2 were collected from within the crawl space, first floor and second floor, respectively. For quality control purposes a sample of outdoor ambient air designated 6493-122 Mullet-OA-1 was collected. No compounds of concern were detected in any of the samples.

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**. A copy of the laboratory report that relates to the vapor samples is also attached.

Mitigation of potential vapors at your property is *not* necessary and we do *not* recommend any further testing. 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, Larry Lester, can be reached at 608-275-3465. We greatly appreciate your help and patience with this matter.

Sincerely,
EnviroForensics, LLC

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

Rob Hoverman, LPG
Senior Project Manager

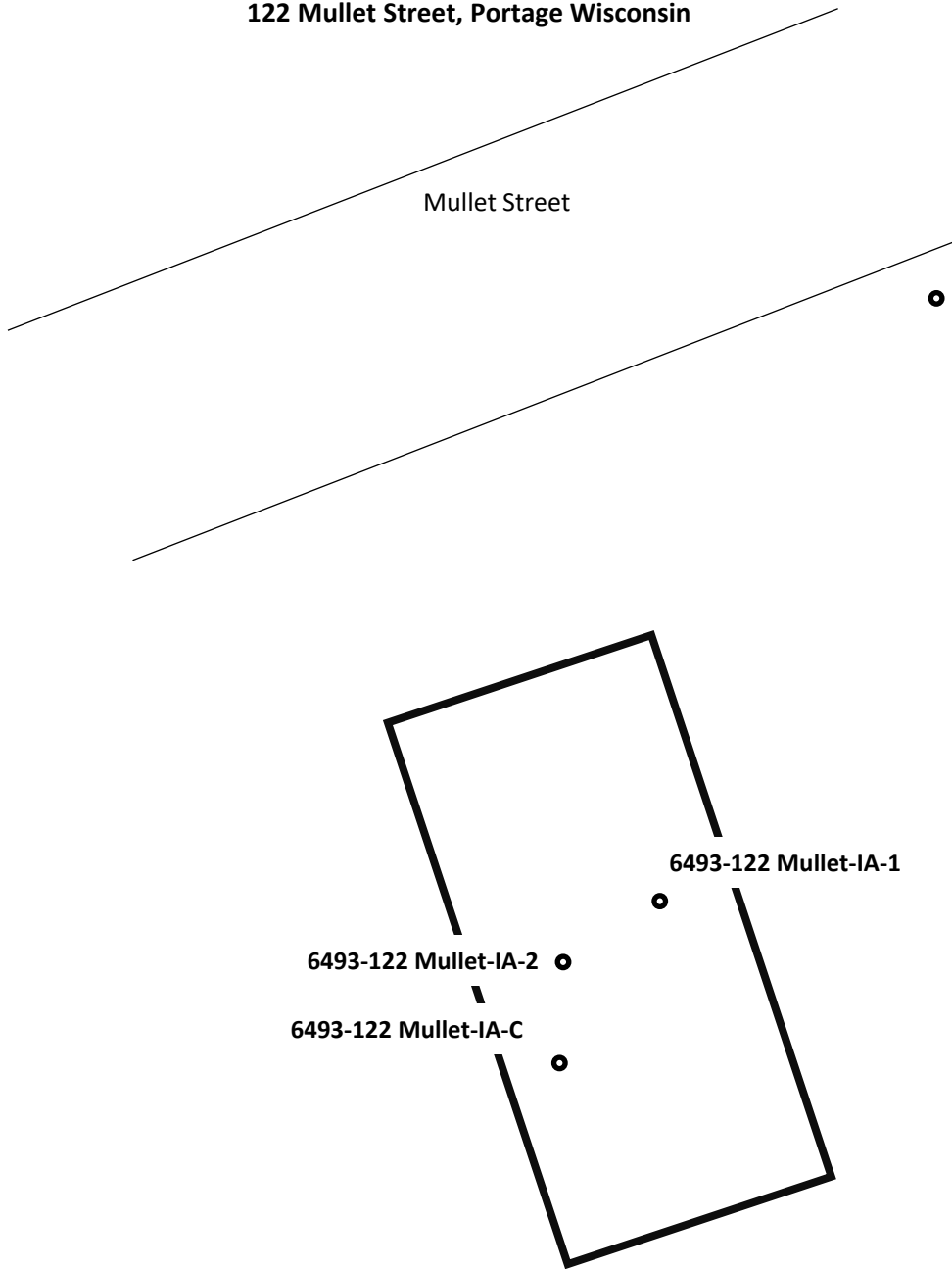
A handwritten signature in blue ink, appearing to read "Rebecca Brown".

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
122 Mullet Street, Portage Wisconsin



Legend

- = Indoor/Outdoor Air Sample
- IA-C = Crawl Space
- IA-1 = 1st Floor



TABLE 1
VAPOR INTRUSION ASSESSMENT 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	
INDOOR/OUTDOOR AIR										
Residential Vapor Action Limit²					42	2.1	NE	NE	1.7	
Small Commercial Vapor Action Limit¹					180	8.8	NE	NE	28	
122 W. Mullet St.	6493-122 Mullet-IA-C	09/30/20	Residential	No	<3.19	<1.07	<19.8	<39.6	<1.28	
		1/25/2021			<3.19	<1.07	<19.8	<39.6	<1.28	
		3/3/2021			<3.19	<1.07	<19.8	<39.6	<1.28	
	6493-122 Mullet-IA-1	09/30/20			No	<3.19	<1.07	<19.8	<39.6	<1.28
		1/25/2021				<3.19	<1.07	<19.8	<39.6	<1.28
		3/3/2021				<3.19	<1.07	<19.8	<39.6	<1.28
	6493-109-IA-2	09/30/20			No	<3.19	<1.07	<19.8	<39.6	<1.28
		1/25/2021				<3.19	<1.07	<19.8	<39.6	<1.28
		3/3/2021				<3.19	<1.07	<19.8	<39.6	<1.28
	6493-OA-1	09/30/20		No	<3.19	<1.07	<19.8	<39.6	<1.28	
		1/25/2021			<3.19	<1.07	<19.8	<39.6	<1.28	
		3/3/2021			<3.19	<1.07	<19.8	<39.6	<1.28	

Notes:

¹ The vapor risk screening levels for small commercial structures are calculated in accordance with the procedures described in WDNR Publication RR-800 and subsequent guidance

² The vapor risk screening levels for residential structures are calculated in accordance with the procedures described in WDNR Publication RR-800 and subsequent guidance

Samples analyzed according to EPA Method TO-15

All concentrations reported in units in micrograms per cubic meter = µg/m³

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 small commercial Vapor Risk Screening Level

NE = Not Established

IA = Indoor Air

OA = Outdoor Air





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

March 9, 2021

EnvisionAir Project Number: 2021-123
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,

A handwritten signature in black ink that reads "Stanley A. Hunnicutt".

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC



EnvisionAir
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Client Name: ENVIROFORENSICS
Project ID: 6493 PORTAGE CLEANERS
Client Project Manager: ROB HOVERMAN
EnvisionAir Project Number: 2021-123

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>Date</u>	<u>Time</u>							
21-644	6493-122 MULLET-IA-C	A	3/2/21	15:45	3/3/21	15:47	3/4/21	15:30	-30	0	0
21-645	6493-122 MULLET-IA-1	A	3/2/21	15:46	3/3/21	15:45	3/4/21	15:30	-29	-2	-2
21-646	6493-122 MULLET-IA-2	A	3/2/21	15:47	3/3/21	15:49	3/4/21	15:30	-29	0	0
21-647	6493-OA-1	A	3/2/21	15:40	3/3/21	15:43	3/4/21	15:30	-29	-3	-3



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Client Name: ENVIROFORENSICS
Project ID: 6493 PORTAGE CLEANERS
Client Project Manager: ROB HOVERMAN
EnvisionAir Project Number: 2021-123

Analytical Method: TO-15
Analytical Batch: 030821AIR

Client Sample ID: 6493-122 MULLET-IA-C
EnvisionAir Sample Number: 21-644
Sample Matrix: AIR

Sample Collection START Date/Time: 3/2/21 15:45
Sample Collection END Date/Time: 3/3/21 15:47
Sample Received Date/Time: 3/4/21 15:30

<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)	104%		
Analysis Date/Time:	3-8-21/12:16		
Analyst Initials	tjg		



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Project ID: 6493 PORTAGE CLEANERS
Client Project Manager: ROB HOVERMAN
EnvisionAir Project Number: 2021-123

Analytical Method: TO-15
Analytical Batch: 030821AIR

Client Sample ID: 6493-122 MULLET-IA-1
EnvisionAir Sample Number: 21-645
Sample Matrix: AIR

Sample Collection START Date/Time: 3/2/21 15:46
Sample Collection END Date/Time: 3/3/21 15:45
Sample Received Date/Time: 3/4/21 15:30

<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)	100%		
Analysis Date/Time:	3-8-21/12:59		
Analyst Initials	tjg		



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Project ID: 6493 PORTAGE CLEANERS
Client Project Manager: ROB HOVERMAN
EnvisionAir Project Number: 2021-123

Analytical Method: TO-15
Analytical Batch: 030821AIR

Client Sample ID: 6493-122 MULLET-IA-2
EnvisionAir Sample Number: 21-646
Sample Matrix: AIR

Sample Collection START Date/Time: 3/2/21 15:47
Sample Collection END Date/Time: 3/3/21 15:49
Sample Received Date/Time: 3/4/21 15:30

<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)	94%		
Analysis Date/Time:	3-8-21/13:41		
Analyst Initials	tjg		



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Project ID: 6493 PORTAGE CLEANERS
Client Project Manager: ROB HOVERMAN
EnvisionAir Project Number: 2021-123

Analytical Method: TO-15
Analytical Batch: 030821AIR

Client Sample ID: 6493-OA-1
EnvisionAir Sample Number: 21-647
Sample Matrix: AIR

Sample Collection START Date/Time: 3/2/21 15:40
Sample Collection END Date/Time: 3/3/21 15:43
Sample Received Date/Time: 3/4/21 15:30

<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)	100%		
Analysis Date/Time:	3-8-21/14:20		
Analyst Initials	tjg		

TO-15 Quality Control Data

EnvisionAir Batch Number: 030821AIR

<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)	105%		
Analysis Date/Time:	3-8-21/10:53		
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	10.7	10.1	10	107%	101%	5.8%	
trans-1,2-Dichloroethene	9.59	9.9	10	96%	99%	3.2%	
cis-1,2-Dichloroethene	9.95	9.66	10	100%	97%	3.0%	
Trichloroethene	10	10.4	10	100%	104%	3.9%	
Tetrachloroethene	10.1	10.5	10	101%	105%	3.9%	
4-bromofluorobenzene (surrogate)	102%	108%					
Analysis Date/Time:	3-8-21/09:29	3-8-21/10:16					
Analyst Initials	tjg	tjg					



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Flag Number

Comments

CHAIN OF CUSTODY RECORD

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www.envision-air.com

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

REQUESTED PARAMETERS

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

Client: P.O. Number: 2021-0117
 Report Name or Number:
 Address: enviropressis.com
 Report To: R. Harman
 Phone: 267-290-4001
 Invoice Address: accounts@enviropressis.com
 Desired TAT: (Please Circle One)
 1 day 2 days 3 days 5 days (5 bus. days)

Media type: 1LC = 1 Liter Canister
 6LC = 6 Liter Canister
 TB = Tedlar Bag
 TD = Thermal Desorption Tube

QA/QC Required: (circle if applicable)
 Level III Level IV
 Reporting Units needed: (circle)
 ug/m³ mg/m³ PPBV PPMV

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 (Specify in notes)	Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
6493-12Mullet-IA-1	6LC	3-2-21	1545	3-3-21	1547	X		4691	8010	-30	0	0	21-644
6493-12Mullet-IA-1	↓	↓	1546	↓	1545	↓		1790	7750	-29	-2	-2	21-645
6493-12Mullet-IA-2	↓	↓	1547	↓	1549			10672	7617	-29	0	0	21-646
6493-OA-1	↓	↓	1540	↓	1543	↓		4650	8008	-29	-3	-3	21-647

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

Relinquished by:	Date	Time	Received by:	Date	Time
RL	3-2-21	1600	Red Ex	3-3-21	1600
			John Harman	3/4/21	1530