

REMEDIATION PROGRESS REPORT

BADGER CLEANERS 616 OAK STREET BARABOO, WISCONSIN WDNR BRRTS# 02-57-548538

February 17, 2021

Prepared By:

EnviroForensics, LLC N16 W23390 Stone Ridge Drive, Suite G Waukesha, WI 53188

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Senior Engineer

Robert Fedorchak, PE

Rob Hoverman, PG

Senior Project Manager



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CERTIFICATIONS

I, Robert Fedorchak, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in characteristics. NR 700 to 726, Wis. Adm. Code.

_____Senior Engineer, Lic. No. E-47469

Signature, title and P.E. number

I, Robert Hoverman, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Senior Project Manager 2/17/2021

Signature and title Date



1.0 INTRODUCTION

EnviroForensics, LLC (EnviroForensics) has prepared this Remediation Progress Report on behalf of Badger Cleaners dry cleaning facility located at 616 Oak Street, Baraboo, Wisconsin (Site). EnviroForensics prepared this report per Wisconsin Administrative Code (WAC) Chapter NR 724 and other associated State of Wisconsin Chapter NR 700 series rules in lieu of the Wisconsin Department of Natural Resources (WDNR) Form 4400-194 for Remediation Site Operation, Maintenance, Monitoring & Optimization Reports (Form 4400-194). This report documents soil vapor extraction (SVE) system operations from July 2020 thought January 2021.

Downtown Baraboo, Wisconsin, near the Site, is a mix of residential and commercial land use. The Site consists of a single parcel of approximately 2,740 square feet with a single-story commercial building of about 2,420 square feet. The building was primarily constructed between 1913 and 1922 and subsequently added on to after 1947. The building is slab on grade on the east and west ends with a basement beneath the central portion, and the remainder of the property is a paved asphalt parking area. Commercial buildings to the north, east, and south, and Oak Street to the west surround the Site. **Figure 1** presents the Site layout. Soil gas and vapor intrusion assessments identified PCE concentrations above sub-slab, indoor air, and soil gas screening levels in the area immediately surrounding the Site. An SVE pilot test was conducted in 2018, followed by system design and infrastructure installation activities throughout 2019, with final equipment connections and startup of the full-scale system completion in January 2020 per WAC Chapter 419.07.

The primary objective of SVE is to remove contaminant mass from unsaturated soil. SVE may provide the additional benefit of vapor intrusion mitigation at the Site building during operation. EnviroForensics submitted a Remediation Implementation Report dated July 27, 2020, to document the design and compliance with Chapter NR 724 and other associated State of Wisconsin Chapter NR 700 series rules. **Figure 1** shows the locations of the extraction well pair and vacuum monitoring points. **Figure 2** depicts the conveyance piping and system layout.



2.0 OPERATION, MAINTENANCE, AND MONITORING

Operation, Maintenance, and Monitoring (OM&M) activities are conducted by EnviroForensics personnel to:

- · Maximize system efficiency and contaminant mass removal rates;
- · Keep the mechanical equipment in good working order; and
- · Collect data to track system performance and determine a timeframe for shutdown.

Routine activities performed during OM&M Site visits include the following:

- Service the blower as recommended by the manufacturer
- Record operational parameters and vapor concentrations to evaluate the efficiency
 - Effluent VOC vapor concentration
 - System runtime
 - System vacuum
 - Wellhead vacuums
 - Vacuum at monitoring points
 - Flow rates
 - Exhaust temperature

Samples of the SVE system air emissions are collected from a port in the exhaust stack and analyzed for VOCs to track mass removal and determine operational changes to optimize system performance. Samples were occasionally collected from individual extraction lines to help understand where extraction was greatest. **Table 1** presents the individual extraction line and effluent sample concentration results and **Appendix A** contains the laboratory reports. A commissioning phase was completed per WAC Chapter 419.07 to confirm that system emissions are below permitting thresholds and ambient air standards and documented in the implementation report. Performance monitoring has been conducted monthly per WAC Chapter 419.07.

SVE operational data collected during Site visits are tabulated and presented in **Table 2**. SVE mass removal data is presented in **Table 3** and graphs depicting SVE effluent VOC concentration trends and cumulative VOC mass removal are presented in **Appendix B**.



Vacuum measurements were collected from the monitoring points with a digital manometer during normal SVE operations. **Figure 3** and **Figure 4** present the estimated radius of influence (ROI) of the SVE system based on vacuum measurements for the shallow and deep intervals, respectively. The sub-slab vapor points vacuum data collected were not used in determining SVE ROI.

3.0 RESULTS

Approximately 25 pounds of VOCs were removed through January 2021 from the subsurface by the SVE system since startup in January 2020. Overall the concentrations have decreased since operations began in January 2020. The concentrations have leveled out at approximately 500 ug/m³. Evaluation of the individual extraction line concentrations will be made in early 2021 to maximize the extraction rates and potentially pulse the SVE operation.

The implemented remedial action is addressing VOC impacts in unsaturated soil. Mass removal via SVE is in progress, and the system will be adjusted and operated to maximize efficiency. The SVE system has likely interrupted vapor transport mechanisms and mitigated the Site building's vapor exposure pathway. Additional testing and evaluation of the exposure pathways will be evaluated as the SVE is operated.



TABLES

Document: 6492-1810

TABLE 1
SVE SAMPLE CONCENTRATION SUMMARY

Badger Cleaners

616 Oak Street, Baraboo, Wisconsin

Sample ID	Date Sampled	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
	1/14/2020	63000	37.1	<198	<396	<12.8
	1/15/2020	82,300	26.3	<198	<396	<12.8
	1/16/2020	58,200	18.8	<198	<396	<12.8
	1/23/2020	25,100	130	<198	<396	<12.8
	1/30/2020	18,900	<10.7	<198	<396	<12.8
	2/5/2020	16,100	<10.7	<198	<396	<12.8
	3/13/2020	4,210	<10.7	<198	<396	<12.8
	4/15/2020	3,510	<10.7	<198	<396	<12.8
6492-SVE-EX	5/13/2020	1,300	<10.7	<198	<396	<12.8
	6/22/2020	3,750	16.1	<198	<396	<12.8
	7/30/2020	2,710	68.2	<198	<396	<12.8
	8/26/2020	5,940	<10.7	<198	<396	<12.8
	9/29/2020	2,650	556	<198	<396	<12.8
	10/28/2020	5,430	<10.7	<198	<396	<12.8
	11/23/2020	2,320	<10.7	<198	<396	<12.8
	12/17/2020	969	<10.7	<198	<396	<12.8
	1/14/2021	568	<10.7	<198	<396	<12.8
	1/23/2020	20,400	48.9	<198	<396	<12.8
	6/22/2020	3,590	<10.7	<198	<396	<12.8
6492-SVE-1S	10/28/2020	27,000	<10.7	<198	<396	<12.8
0432-341-13	11/23/2020	5,250	<10.7	<198	<396	<12.8
	12/17/2020	669	<10.7	<198	<396	<12.8
	1/14/2021	445	<10.7	<198	<396	<12.8
	1/23/2020	15,000	<10.7	<198	<396	<12.8
	6/22/2020	2,970	<10.7	<198	<396	<12.8
6492-SVE-1d	10/28/2020	NA	NA	NA	NA	NA
J-32 3VL 10	11/23/2020	1,630	<10.7	<198	<396	<12.8
	12/17/2020	900	41.4	<198	<396	<12.8
	1/14/2021	612	<10.7	<198	<396	<12.8

Results reported in micrograms per cubic meter NA = Not Analyzed

TABLE 2 SVE OPERATIONAL DATA

Badger Cleaners

616 Oak St, Baraboo WI 53913

		System Runtime	VFD Setting	Dilution	System Vacuum	Conve Line Va	yance acuum	Exhaust Pressure	Influent Temperature	Exhaust Temperature	Pre-Filter Differential Pressure	Post-Filter Differential Pressure	Flow Rate	Calculated Flow Rate	Effluent VOC Concentration
Date	Time	Panel Display	Panel Display	Valve	Panel Display	1	2	Exhaust Gauge	Pitot Tube	Exhaust Pipe	Pitot Tube	Pitot Tube	Panel Display		Exhaust Port
		Hours	Hertz	%	in Hg	in	Hg	in H ₂ O	°F	°F	in H₂O	in H₂O	in H₂O	SCFM	μg/m³
01/14/20	1530	1.3	65.0	40.0	-2.0	-2.0	-2.0	-2.5	40	79.8	NM	NM	0.51	360	63,037
01/15/20	1024	20.3	65.0	0.0	-12.0	-12.0	-12.0	0.5	40	160.5	0.4	0.2	0.20	220	82,326
01/16/20	1211	46.2	65.0	0.0	-11.0	-11.5	-10.5	0.5	38	159.7	0.4	0.2	0.21	220	58,219
01/17/20	1120	59.4	65.0	0.0	-11.0	-11.5	-10.5	0.5	37	159.9	0.2	0.2	0.20	220	0
1/23/2020*	1147	175.3	60.0	0.0	-11.0	-11.0	-10.5	0.5	40	145.0	0.3	0.2	0.15	190	25,240
01/30/20	925	340.9	50.0	0.0	-9.4	-9.5	-9.0	0.4	37	124.1	0.3	0.2	0.09	170	18,900
02/05/20	1056	486.4	50.0	10.0	-9.5	-9.0	-10.0	0.3	37	125.1	0.2	0.2	0.09	170	16,121
03/13/20	1306	1,235.3	50.0	10.0	-9.2	-9.0	-9.5	0.5	40	127.3	0.1	0.1	0.11	170	4,210
04/15/20	1049	2,025.9	50.0	10.0	-9.7	-8.0	-9.0	0.5	34	136.4	0.1	0.1	0.12	165	3,510
05/13/20	1152	2,698.9	50.0	10.0	-9.5	-9.0	-9.5	0.4	47	141.2	0.2	0.2	0.16	190	1,300
06/22/20	1222	3,515.8	50.0	10.0	-10.41	-10.0	-10.0	0.0	60	166.6	0.2	0.2	0.14	190	3,766
07/30/20	1052	4,234.5	50.0	10.0	-10.81	-8.0	-8.0	0.0	64	144.8	0.2	0.2	0.13	180	2,778
08/26/20	1031	4,882.2	50.0	10.0	-10.52	-10.0	-10.5	0.0	64	146.1	0.1	0.1	0.14	180	5,940
09/29/20	1401	5,646.8	50.0	10.0	-10.79	-9.0	-10.0	0.4	50	154.5	0.1	0.0	0.15	190	3,206
10/28/20	1031	6,336.7	50.0	10.0	-10.83	-9.0	-9.0	0.0	40	144.5	0.1	0.1	0.13	180	5,430
11/23/20	1025	6,964.0	50.0	10.0	-10.70	-10.5	-10.5	0.00	38	141.9	0.1	0.1	0.08	160	2,320
12/17/20	1120	7,540.9	50.0	10.0	-10.68	-9.0	-10.0	0.294	30	132.6	0.2	0.2	0.19	225	969
01/14/21	954	8,211.4	50.0	10.0	-10.42	-9.8	-9.0	0.252	33	134.7	0.1	0.1	0.14	190	568

Notes:

in Hg = inches of mercury in H_2O = inches of water

μg/m³ = micrograms per cubic meter

AWS = Air-water separator

NM = not measured due to gauge malfunction

SCFM = Standard cubic feet per minute

* some values estimated.



TABLE 3
SVE MASS REMOVAL DATA

Badger Cleaners

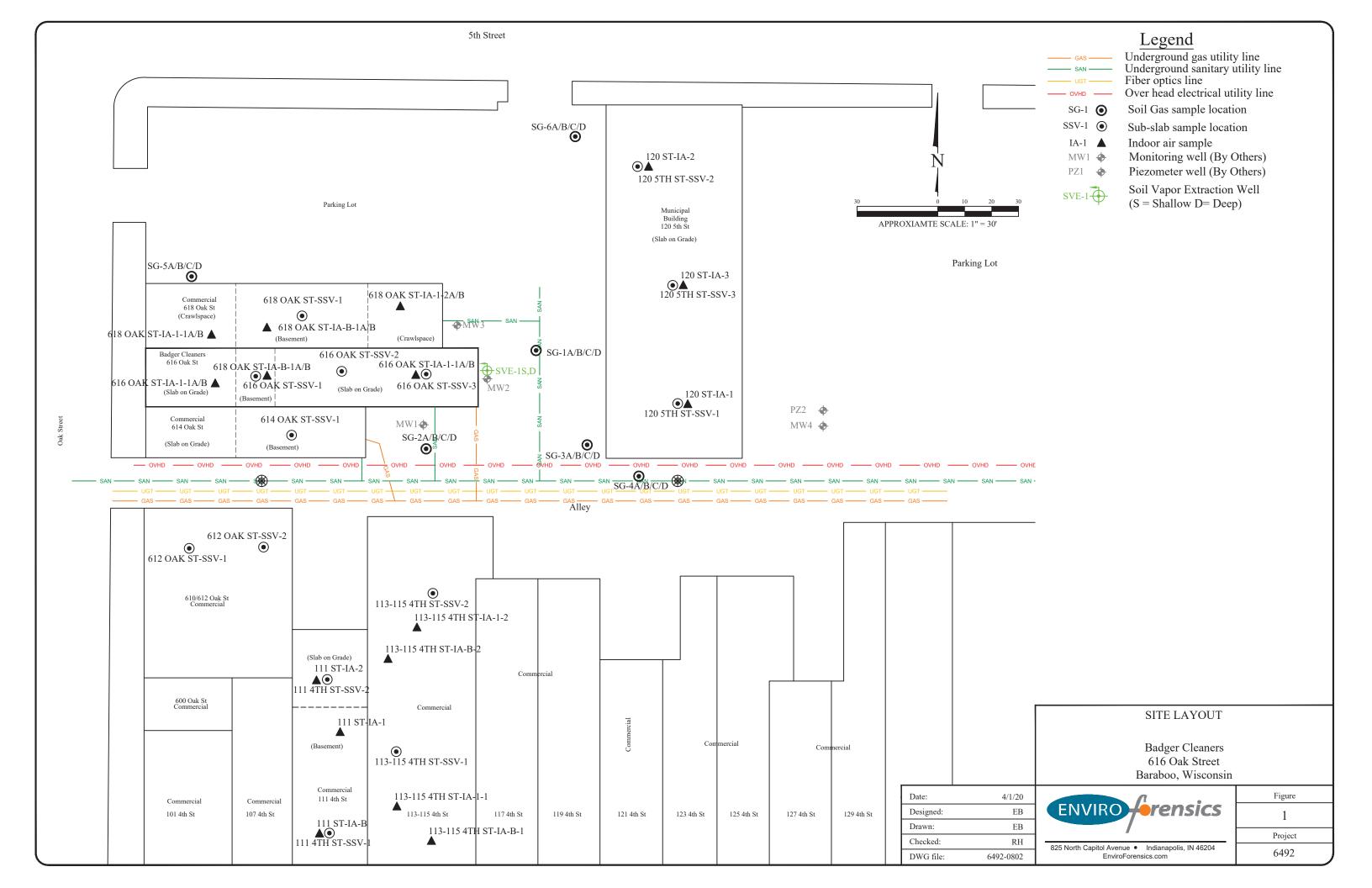
616 Oak Street, Baraboo, Wisconsin

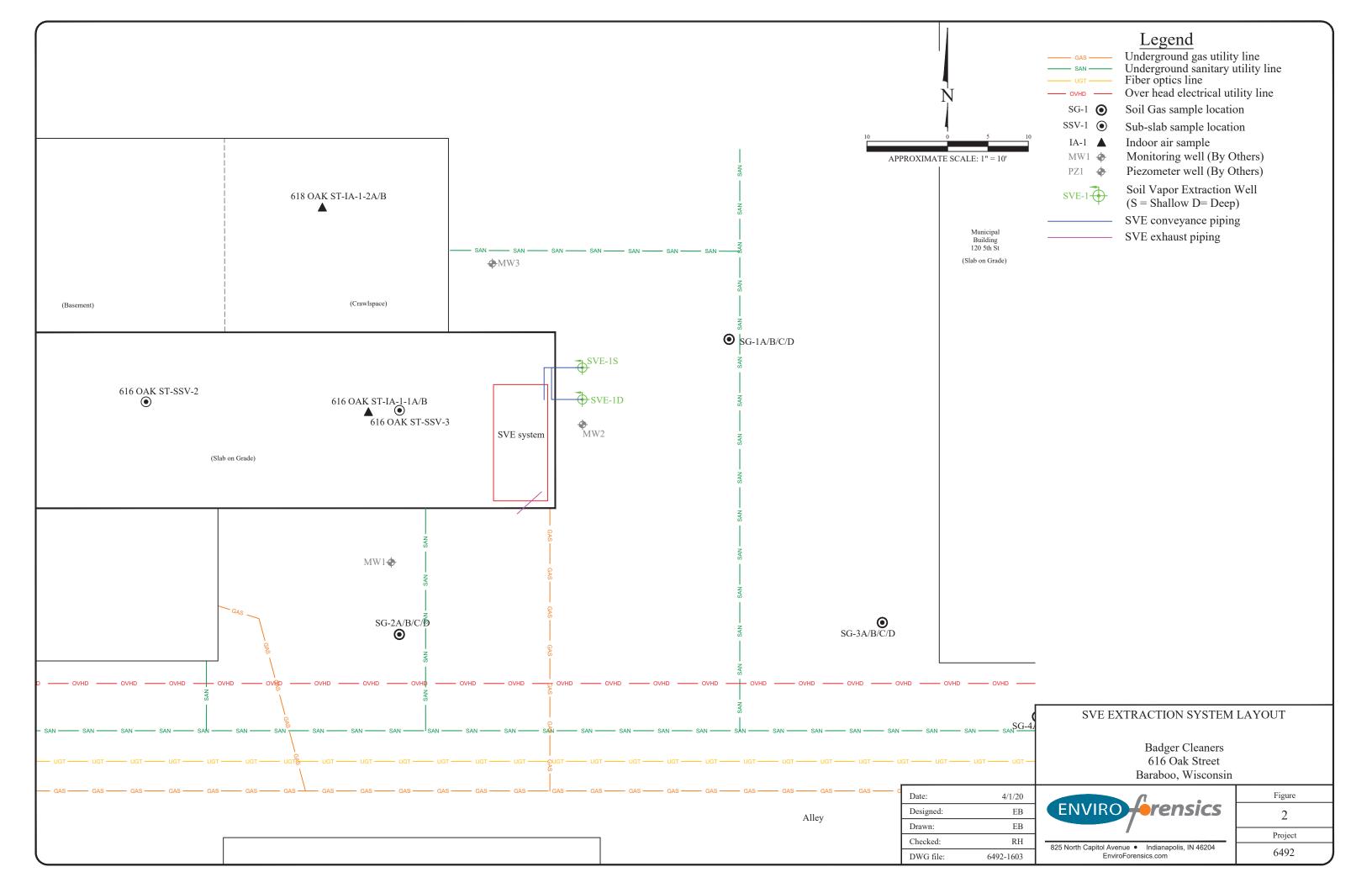
Camarla Data	Pitot Tu	be Calculation	VOC Concentration	VOC Concentration	Runtime	Sample	Sample	Pitot Tub	e Calculation
Sample Date	Flow Rate	Flow Rate	voc concentration	voc concentration	Kuntime	Duration	Duration	Mass Removed	Cumulative Mass
	SCFM	m³/min	ug/m³	lbs/m³	hrs	hrs	mins	lbs	lbs
1/14/2020	360	10.2	63,037	0.000139	1.3	1.3	78	0.11	0.11
1/15/2020	220	6.2	82,326	0.000182	20.3	19.0	1,140	1.29	1.40
1/16/2020	220	6.2	58,219	0.000128	46.2	25.9	1,554	1.24	2.64
1/23/2020	190	5.4	25,240	0.000056	175.3	129.1	7,746	2.32	4.96
1/30/2020	170	4.8	18,900	0.000042	340.9	165.6	9,936	1.99	6.96
2/4/2020	170	4.8	16,121	0.000036	486.4	145.5	8,730	1.49	8.45
3/13/2020	170	4.8	4,210	0.000009	1,235.3	748.9	44,934	2.01	10.46
4/15/2020	165	4.7	3,510	0.000008	2,025.9	790.6	47,436	1.72	12.17
5/13/2020	190	5.4	1,300	0.000003	2,698.9	673.0	40,380	0.62	12.80
6/22/2020	190	5.4	3,766	0.000008	3,515.8	816.9	49,014	2.19	14.99
7/30/2020	180	5.1	2,778	0.000006	4,234.5	718.7	43,122	1.35	16.33
8/26/2020	180	5.1	5,940	0.000013	4,882.2	647.7	38,862	2.59	18.93
9/29/2020	190	5.4	3,206	0.000007	5,646.8	764.6	45,876	1.75	20.67
10/28/2020	180	5.1	5,430	0.000012	6,336.7	689.9	41,394	2.53	23.20
11/23/2020	160	4.5	2,320	0.000005	6,964.0	627.3	37,638	0.87	24.07
12/17/2020	225	6.4	969	0.000002	7,540.9	576.9	34,614	0.47	24.54
1/14/2021	190	5.4	568	0.000001	8,211.4	670.5	40230	0.27	24.81



FIGURES

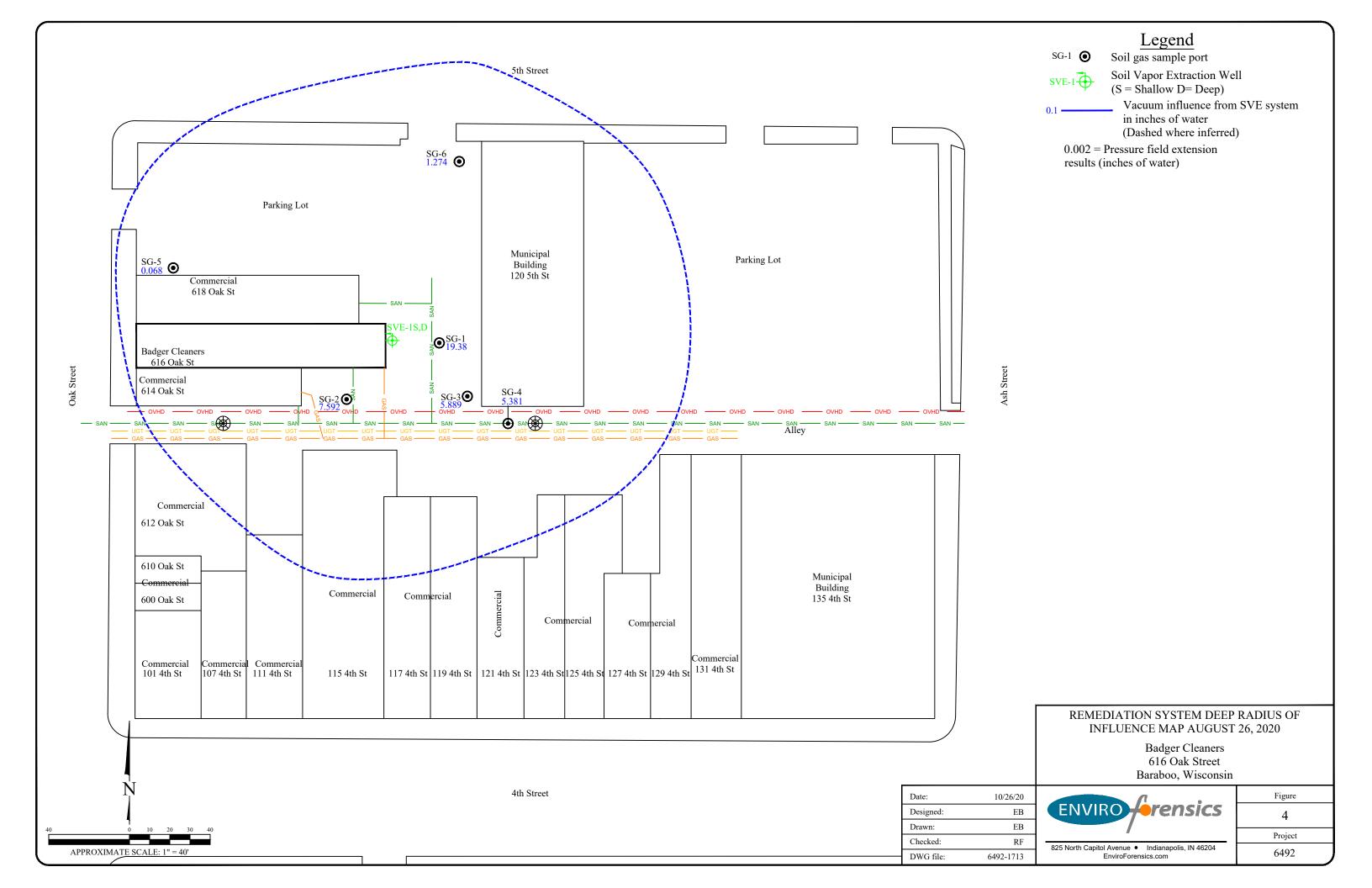
Document: 6492-1620





Legend SG-1 **(** Soil gas sample port 5th Street SS-1 **(** Sub-slab vapor sample port Soil Vapor Extraction Well SVE-1 (S = Shallow D = Deep)Vacuum influence from SVE system in inches of water SG-6 0.685 **()** (Dashed where inferred) 0.002 =Pressure field extension results (inches of water) NM = Not measured Parking Lot Municipal Parking Lot SG-5 0.0 Building SSV-1 (a)
0.04

SSV-2 (a)
0.04 120 5th St SVE-1S,D SG-1 10.70 Badger Cleaners $\bigcirc_{0.851}^{SSV-1}$ $\bigcirc_{0.0}^{SSV-2}$ SSV-3**①** 616 Oak St Ash Street Oak Street Commercial ●SSV-1 0.035 614 Oak St SG-3 SG-2 0.831 Alley Commercial 612 Oak St 610 Oak St Municipal Building Commercial Commercial 135 4th St 600 Oak St Commercial Commercial Commercial Commercial Commercial 121 4th St | 123 4th St | 125 4th St | 127 4th St | 129 4th St | 131 4th St 101 4th St 111 4th St 115 4th St 117 4th St 119 4th St 107 4th St REMEDIATION SYSTEM SHALLOW RADIUS OF INFLUENCE MAP AUGUST 26, 2020 Badger Cleaners 616 Oak Street Baraboo, Wisconsin 4th Street Figure Date: 10/26/20 **ENVIRO** èrensics Designed: EB 3 EB Drawn: Project Checked: RF 825 North Capitol Avenue
Indianapolis, IN 46204 APPROXIMATE SCALE: 1" = 40' 6492 DWG file: 6492-1712 EnviroForensics.com





APPENDIX A

SVE System Laboratory Reports

Document: 6492-1620



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

July 1, 2020

EnvisionAir Project Number: 2020-335

Client Project Name: 6492 - Badger Cleaners

Dear Mr. Hoverman,

Please find the attached analytical report for the samples received June 25, 2020. 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

Stanly a. Hunnicutt

Project Manager EnvisionAir, LLC



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: 6492 - BADGER CLEANERS

Client Project Manager: ROB HOVERMAN

EnvisionAir Project Number: 2020-335

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)
20-1527	6492-SVE-EX	Α	6/22/20	13:25	6/22/20	13:30	6/25/20	8:45	-28	-4	-4
20-1528	6492-SVE-1S	Α	6/22/20	13:34	6/22/20	13:40	6/25/20	8:45	-27	-7	-7
20-1529	6492-SVE-1D	Α	6/22/20	13:43	6/22/20	13:53	6/25/20	8:45	-30	-11	-11



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Client Name: ENVIROFORENSICS

Project ID: 6492 - BADGER CLEANERS

Client Project Manager: ROB HOVERMAN

EnvisionAir Project Number: 2020-335

Analytical Method: TO-15 **Analytical Batch:** 062720AIR

Client Sample ID: 6492-SVE-EX Sample Collection START Date/Time: 6/22/20 13:25

> Sample Collection END Date/Time: 6/22/20 13:30 Sample Received Date/Time: 6/25/20 8:45

EnvisionAir Sample Number: Sample Matrix: AIR

Compounds	Sample Results ug/m ³	Reporting Limit ug/m ³	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	3,750	128	1
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	16.1	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surro	ogate) 92%		
Analysis Date/Time:	6-28-20/18:17		
Analyst Initials	tjg		

20-1527



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Client Name: ENVIROFORENSICS

Project ID: 6492 - BADGER CLEANERS

Client Project Manager: ROB HOVERMAN

EnvisionAir Project Number: 2020-335

Analytical Method: TO-15 **Analytical Batch:** 062720AIR

Client Sample ID: 6492-SVE-1S Sample Collection START Date/Time: 6/22/20 13:34

Sample Collection END Date/Time: 6/22/20 13:40 Sample Received Date/Time: 6/25/20 8:45

EnvisionAir Sample Number: Sample Matrix: AIR

Compounds	Sample Results ug/m ³	Reporting Limit ug/m ³	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	3,590	128	1
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surro	ogate) 88%		
Analysis Date/Time:	6-28-20/18:55		
Analyst Initials	tjg		

20-1528



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: 6492 - BADGER CLEANERS

Client Project Manager: ROB HOVERMAN

EnvisionAir Project Number: 2020-335

Analytical Method: TO-15
Analytical Batch: 062720AIR

Client Sample ID: Sample Collection START Date/Time: 6/22/20 13:43

Sample Collection END Date/Time: 6/22/20 13:53

EnvisionAir Sample Number: 20-1529 Sample Received Date/Time: 6/25/20 8:45

Sample Matrix: AIR

Compounds	Sample Results ug/m ³	Reporting Limit ug/m ³	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	2,970	128	1
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surro	gate) 104%		
Analysis Date/Time:	6-28-20/19:33		
Analyst Initials	tjg		



Analytical Report

EnvisionAir

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

TO-15 Quality Control Data

EnvisionAir Batch Number: 062720AIR

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)	106%		
Analysis Date/Time:	6-28-20/14:57		
Analyst Initials	tjg		

			LCS/D	<u>LCS</u>	<u>LCSD</u>		
LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	Conc(ppbv)	Rec.	Rec.	<u>RPD</u>	Flag
Vinyl Chloride	9.71	8.68	10	97%	87%	11.2%	
trans-1,2-Dichloroethene	10.4	10.9	10	104%	109%	4.7%	
cis-1,2-Dichloroethene	11.6	9.37	10	116%	94%	21.3%	2
Trichloroethene	9.62	11.3	10	96%	113%	16.1%	
Tetrachloroethene	11.4	11.5	10	114%	115%	0.9%	
4-bromofluorobenzene (surrogate)	97%	96%					
Analysis Date/Time:	6-28-20/12:54	6-28-20/13:38					
Analyst Initials	tjg	tjg					



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

Flag Number	<u>Comments</u>	
1	Reported value is from a 40x dilution. TJG 6/30/20	
2	RPD is biased high, but recoveries are within control.	TJG 6/30/20

CHAIN OF CUSTODY RECORD

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

Client: Exvisitasevsics		O. Numbe	P.O. Number: 2020 - 1658	-165	80	REOL	REQUESTED PARAMETERS	TERS				
Address: Wau KESHA, WI		Project Nam	Project Name or Number:	er:	10 PS		(5310)	1				
Report To: Ros Hover MAN	Sa	Sampled by:	R HOVERMAN	ERMA	2		n in Si	\	T.	1//1	010	CIVIN
Phone: 414.630.0000	ð	VQC Requ	QA/QC Required: (circle if applicable) Level III Level IV	if applicable	IV IV	\	Toods)	_		>	2	EINVISIONAIK
Invoice Address:	Re	eporting Ur	Reporting Units needed: (circle)	ded: (circle)	е)	1817 IM	181740		23			
Desired TAT: (Please Circle One) 1 day 2 days 3 days Std (5 bus. days)		lia type: 1LC = 6LC = TB = TD =	Media type: 1LC = 1 Liter Canister 6LC = 6 Liter Canister TB = Tedlar Bag TD = Thermal Desorption Tube	tion Tube		SSI-OU ISI-OU	1 551.03	Sub-Stab:	Canister	www.envision-: Canister Pressure / Vacuum	www.envision-air.com	шо
Air Sample ID Media Type	Coll. Date (Grab/Comp Start)	II. Coll. te Time (Grab/Comp Start)		Coll. Date	Coll. Time		Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
100 (2492-50E-EX	4/2/20	1325 i325	5 6/20/20	120	1330	×	83738	haj	88,	h	ha	20-1527
10492-50E-15 11C		(3	1334		134		2696	116	28-	t	1	20-1528
6493-50E-14 1CC	2	60	1343	_	1353	_	83727	56	30	-	11-	20-1529
4												
Comments:		1-	12,70	10° C	PLE, TOE, DCE, tDiE, VO	5, 40						
Rejinquished by:	d by:			Date	te	Time	Rece	Received by:		Date	- a	Time
120 41				7	-							, , , , , ,



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

August 10, 2020

EnvisionAir Project Number: 2020-409 Client Project Name: Badger Cleaners 6492

Dear Mr. Hoverman,

Please find the attached analytical report for the samples received August 3, 2020. 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

Stanly a. Hunnicutt

Project Manager EnvisionAir, LLC



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: BADGER CLEANERS 6492

Client Project Manager: ROB HOVERMAN

EnvisionAir Project Number: 2020-409

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)	
20-1913	6492-SVE-EX	Α	7/30/20	11:28	7/30/20	11:33	8/3/20	15:30	-28	-4	-4	



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Client Name: ENVIROFORENSICS

Project ID: BADGER CLEANERS 6492

Client Project Manager: ROB HOVERMAN

EnvisionAir Project Number: 2020-409

Analytical Method: TO-15
Analytical Batch: 080320CAIR

Client Sample ID: 6492-SVE-EX Sample Collection START Date/Time: 7/30/20 11:28

Sample Collection END Date/Time: 7/30/20 11:33

EnvisionAir Sample Number: 20-1913 Sample Received Date/Time: 8/3/20 15:30

Sample Matrix: AIR

Compounds	Sample Results ug/m ³	Reporting Limit ug/m ³	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	_
Tetrachloroethene	2,710	319	1
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	68.2	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surro	gate) 101%		
Analysis Date/Time:	8-3-20/15:42		
Analyst Initials	tjg		



Analytical Report

EnvisionAir

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TO-15 Quality Control Data

EnvisionAir Batch Number: 080320CAIR

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)	90%		
Analysis Date/Time:	8-3-20/21:53		
Analyst Initials	tjg		

			LCS/D	LCS	LCSD		
LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	Conc(ppbv)	Rec.	Rec.	<u>RPD</u>	Flag
Vinyl Chloride	9.88	10.1	10	99%	101%	2.2%	
trans-1,2-Dichloroethene	11.1	10.3	10	111%	103%	7.5%	
cis-1,2-Dichloroethene	11.4	10.5	10	114%	105%	8.2%	
Trichloroethene	10.4	10.6	10	104%	106%	1.9%	
Tetrachloroethene	8.88	8.89	10	89%	89%	0.1%	
4-bromofluorobenzene (surrogate)	113%	104%					
Analysis Date/Time:	8-3-20/20:35	8-3-20/21:19					
Analyst Initials	tjg	tjg					



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Flag Number

Comments

1

Reported value is from a 100x dilution. DAE 8/5/20

CHAIN OF CUSTODY RECORD

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

Project Name or Number: Project Name of Name or Number: Project Name of Name or Na	Client: EvolpotoREUSICS	res	P.O. Nu	mber:⊋c	P.O. Number: 2020 - 1781	3/	DEC	HECTED DADAM	ETEDS				
Sample of the continued continued continued continued by: Sample of the continued continued continued continued continued continued by: Sample of the continued	Report 2/6 1033390 S	TONE RIDE	Project	Name or I		100	2	(S)	LIERS				
ONCE Required: (arche if applicable) ONCE REQUIRED: (Report To: R. HOVERM	1 23.08		d by:	7	0116		Jan 19.		T.		CIO	DAIAID
Reporting Units needed: (arce) Reporting Units needed: (arce) Reporting Units needed: (arce) Reporting Units needed: (arce) Redia Reporting Units needed: (arce) Redia	Phone: 4/4. 630.00 42	0	QA/QC	Required: Leve	(circle if applied III Leve	able)		Toods) I	/		>	2	
Marie type air c a large consister Marie type air c a large Marie type Marie typ	Invoice Address:		Reportii (ug/m)	ng Units n	eeded: (arc	e) PPMV	ISIT IM	SIT HOUSE LING	\	::1			
Date Coll. co	Desired TAT: (Please Circle One 1 day 2 days 3 days 8td (5	būs. days)	Media type:	JLC = 1 Liter 6LC = 6 Liter TB = Tedlar TD = Therma	Canister Canister Bag Il Desorption Tube		5,04 (5,04)	1		Canister	Pressure /	Vacuum	Шо
	Air Sample ID	Media Type (see code above)		Coll. Time	Coll. Date	Coll. Time			B	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
To-15 StCRTUST &CE, TCE, &DCE, & VC Relinquished by: Date Time Received by: Date	6492-SVE-EX	120	7/30/20	1128	7/30/20	1133	X	8 8 113 8			5-	74	20-1913
To-15 Steatust 200, To0, tD00,													
To ./S Stertust PCE, TCE, cDCE, tDCE, 4 VC Relinquished by: Reli													
To 15 Steatulet 806, TCE, $tDCE, t$ VC Relinquished by: Relinqu													
To -/5 Sterrulst PCE, TCE, $cDCE, cDCE, c$ VC Relinquished by: Received b													
To 15 Stertust Rec., The Land Land Bate Received by: Relinquished by: Relinquished by: $\frac{1}{2} \sqrt{31/20} \sqrt{100}$ Feb fix													
To 15 Sturtuist PCE, TCE, $cDCE_1 tDCE_1 \# VC$ Relinquished by: Date Time Received by: $r_{[31]^{20}}$ Noo FEDEX,													
Date Time Received by: Date	51-07	SHERTL	TSI	PCE, T	CE, 2D	E, tDC	E, 4 VC						
31/20 1100 FEDEX	Relinc	quished	by:		H	Jate	Time	R	eceived by:		Da	te	Time
	1 May					_	1100	FEDEN	b		100		000



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

September 4, 2020

EnvisionAir Project Number: 2020-490

Client Project Name: 6492

Dear Mr. Hoverman,

Please find the attached analytical report for the samples received August 28, 2020. 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

Stanly a. Hunnicutt

Project Manager EnvisionAir, LLC



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www.envision-air.com

Client Name: ENVIROFORENSICS

Project ID: 6492

Client Project Manager: ROB HOVERMAN

EnvisionAir Project Number: 2020-490

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)
20-2281	6492-SVE-EX	Α	8/26/20	10:50	8/26/20	10:56	8/28/20	16:17	-30	-15	-15



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Client Name: ENVIROFORENSICS

Project ID: 6492

Client Project Manager: ROB HOVERMAN

EnvisionAir Project Number: 2020-490

Analytical Method: TO-15
Analytical Batch: 090220CAIR

Client Sample ID: 6492-SVE-EX Sample Collection START Date/Time: 8/26/20 10:50

Sample Collection END Date/Time:8/26/2010:56Sample Received Date/Time:8/28/2016:17

EnvisionAir Sample Number: 20-2281 **Sample Received Date/Time:** 8/28/20

Sample Matrix: AIR

Compounds	Sample Results ug/m ³	Reporting Limit ug/m ³	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	5,940	1280	1
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surro	ogate) 104%		
Analysis Date/Time:	9-3-20/15:19		
Analyst Initials	tjg		



Analytical Report

EnvisionAir

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TO-15 Quality Control Data

EnvisionAir Batch Number: 090220CAIR

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)	106%		
Analysis Date/Time:	9-2-20/23:53		
Analyst Initials	tjg		

			LCS/D	LCS	LCSD		
LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	Conc(ppbv)	Rec.	Rec.	RPD	Flag
Vinyl Chloride	8.51	10.4	10	85%	104%	20.0%	
trans-1,2-Dichloroethene	10.9	10.4	10	109%	104%	4.7%	
cis-1,2-Dichloroethene	10.7	10.4	10	107%	104%	2.8%	
Trichloroethene	9.44	9.1	10	94%	91%	3.7%	
Tetrachloroethene	9.82	9.97	10	98%	100%	1.5%	
4-bromofluorobenzene (surrogate)	105%	97%					
Analysis Date/Time:	9-2-20/19:18	9-2-20/21:47					
Analyst Initials	tjg	tjg					



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Flag Number

Comments

1

Reported value is from a 400x dilution. TJG 09-04-20

CHAIN OF CUSTODY RECORD

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

		FNVISIONAIR		Soil-Gas: Sub-Slab: Sub-Slab:	: Canister P	Flow Initial Final Lab EnvisionAir Controller Field Field Received Sample Number Serial# (in. Hg) (in. Hg)	3 -30 -15 -15 20-2281					
REQUESTED PARAMETERS	(8300)	land.	Dads) I	SETTAGE		Canister Serial #	2089 0023				_	
REOL			\	Pall List	51.04 (51.04)		×				DUEJEDUE, & UC	
1811		andre .	applicable)	e) PPMV		Coll. Time	656				DOEJET	
120-17	umber:	HOVERMY	e if	Reporting Units needed: (cirde)	Media type: 1LC = 1 Liter Canister 6LC = 6 Liter Canister TB = Tedlar Bag TD = Thermal Desorption Tube	Coll. Date	8/11/11/886				TEE, C	
P.O. Number: 2020-	Vame or Nu	by: R	Required: (circl	g Units ne	1LC = 1 Liter Ca 6LC = 6 Liter Ca TB = Tedlar Ba TD = Thermal	Coll. Time (Grab/Comp Start)	1650				PCE	
P.O. Nur	Project N	Sampled by:	QA/QC F	Reporting ug/m³	Media type:	Coll. Date (Grab/Comp Start)	8/2420				12	
15/25	Stave Rich	?	0		ous. days)	Media Type (see code above)	700				SHORT WE	
Client: EnvigoFacepsics	Report N/6 W23390 Stave Right Project Name or Number: Address: ひゃょをひょっしん ひそ	REPORT TO: R. HOVERMUNT	Phone: 4/4 630 0000	Invoice Address:	Desired TAT: (Please Circle One) 1 day 2 days 3 days <u>8td (5 bus. days)</u>	Air Sample ID	1 492. 5UE-EX				Comments:	



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

October 9, 2020

EnvisionAir Project Number: 2020-564 Client Project Name: Badger 6492

Dear Mr. Hoverman,

Please find the attached analytical report for the samples received October 2, 2020. 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

Stanly a. Hunnicutt

Project Manager EnvisionAir, LLC



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: BADGER 6492

Client Project Manager: ROB HOVERMAN

EnvisionAir Project Number: 2020-564

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)
20-2621	6492-SVE-EX	Α	9/29/20	14:21	9/29/20	14:28	10/2/20	12:15	-28	-8	-8



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Client Name: ENVIROFORENSICS

Project ID: BADGER 6492

Client Project Manager: ROB HOVERMAN

EnvisionAir Project Number: 2020-564

Analytical Method: TO-15
Analytical Batch: 100620CAIR

Client Sample ID: 6492-SVE-EX Sample Collection START Date/Time: 9/29/20 14:21

Sample Collection END Date/Time: 9/29/20 14:28

EnvisionAir Sample Number: 20-2621 Sample Received Date/Time: 10/2/20 12:15

Sample Matrix: AIR

Compounds	Sample Results ug/m ³	Reporting Limit ug/m ³	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	2,650	128	1
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	556	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surro	ogate) 102%		
Analysis Date/Time:	10-8-20/10:08		
Analyst Initials	tjg		



Analytical Report

EnvisionAir

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TO-15 Quality Control Data

EnvisionAir Batch Number: 100620CAIR

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)	103%		
Analysis Date/Time:	10-8-20/00:44		
Analyst Initials	tjg		

			LCS/D	LCS	LCSD		
LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	Conc(ppbv)	Rec.	Rec.	RPD I	Flag
Vinyl Chloride	9.65	11.2	10	97%	112%	14.9%	
trans-1,2-Dichloroethene	9.96	9.3	10	100%	93%	6.9%	
cis-1,2-Dichloroethene	9.9	8.99	10	99%	90%	9.6%	
Trichloroethene	9.76	10.3	10	98%	103%	5.4%	
Tetrachloroethene	10.3	10.6	10	103%	106%	2.9%	
4-bromofluorobenzene (surrogate)	108%	114%					
Analysis Date/Time:	10-7-20/23:33	10-8-20/01:29					
Analyst Initials	tjg	tjg					



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Flag Number

Comments

1

Reported value is from a 40x dilution. TJG 10/9/20

CHAIN OF CUSTODY RECORD

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

Client: Envise FORENSICS	53	P.O. Number:		2020-1930	35	DEO	REOLIFICATED PARAMETERS	FRS				
REPORT NIGWO3390 STAVE FICTOR Address: WALKESHA, WIT	ove flows		Project Name or Number:	Number:			(50,000)		_			
REPORT TO: D. LEVERAMAN	24	Sampled by:	d by:	-3	LAN		188		7	M	CIS	FNVISIONAIP
Phone: 4/4,430,0006	90	QA/QC	Required: Leve	QA/QC Required: (circle if applicable)	applicable)	\	(Sads) Is			>	2	
Invoice Address:		Reporti	ing Units n	Reporting Units needed: (arde)	de)	Pall List	ST HOU.	Soil-Gas: AC Sub-Slab:		www.	moo rie-noisivne www	wo
Desired TAT: (Please Circle One) 1 day 2 days 3 days Std (5 bus. days)	bus. days)	Media type:	: 1LC = 1 Liter 6LC = 6 Liter TB = Tediar TD = Therma	1LC = 1 Liter Canister 6LC = 6 Liter Canister TB = Tedfar Bag TD = Thermal Desorption Tube		51.01	1 / 500/5	* *	Canister	Canister Pressure / Vacuum	Vacuum	
Air Sample ID	Media Type (see code above)	Coll. Date	Coll. Time	Coll. Date	Coll. Time		Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
6492- SVE EX	160	9/29/20	143(121/2/20	1438	Х	34.48	6839	170	b	90	20-2621
Comments:	di =500	CE, TC	E, LDCE	eloce : Pee, Tee, edge bee, vo	9							
Reling	Relinauished by:	.vc			Date	Time	Rec	Received by:		Date	te l	Time
11011					11	1	KENEV					



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

November 4, 2020

EnvisionAir Project Number: 2020-593

Client Project Name: 6492 – Badger Cleaners

Dear Mr. Hoverman,

Please find the attached analytical report for the samples received October 30, 2020. 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

Stanly O. Thurnicutt

Project Manager EnvisionAir, LLC



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: 6492 - BADGER CLEANERS

Client Project Manager: ROB HOVERMAN

EnvisionAir Project Number: 2020-593

Sample Summary

Canister Pressure / Vacuum

			START Date	START Time	End Date	End Time	Date	Time	Initial Field	Final Field	<u>Lab</u> Received
Laboratory Sample Number:	Sample Description:	Matrix:	Collected:	Collected:	Collected:	Collected:	Received:	Received	(in. Hg)	(in. Hg)	(in. Hg)
20-2740	6492-SVE-EX	Α	10/28/20	10:17	10/28/20	10:25	10/30/20	10:40	-28	-11	-11
20-2741	6492-SVE-1S	Α	10/28/20	10:37	10/28/20	10:43	10/30/20	10:40	-29	-12	-12



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: 6492 - BADGER CLEANERS

Client Project Manager: ROB HOVERMAN

EnvisionAir Project Number: 2020-593

Analytical Method: TO-15 **Analytical Batch:** 110220AIR

Client Sample ID: 6492-SVE-EX Sample Collection START Date/Time: 10/28/20 10:17

Sample Collection END Date/Time: 10/28/20 10:25 Sample Received Date/Time: 10/30/20 10:40

EnvisionAir Sample Number: 20-2740

Sample Matrix: AIR

Compounds	Sample Results ug/m³	Reporting Limit ug/m ³	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	_
Tetrachloroethene	5,430	1280	1
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surre	ogate) 106%		
Analysis Date/Time:	11-2-20/17:04		
Analyst Initials	tjg		



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Fax: 317-351-0882 www.envision-air.com

Client Name: ENVIROFORENSICS

Project ID: 6492 - BADGER CLEANERS

Client Project Manager: ROB HOVERMAN

EnvisionAir Project Number: 2020-593

Analytical Method: TO-15
Analytical Batch: 110220AIR

Client Sample ID: 6492-SVE-1S Sample Collection START Date/Time: 10/28/20 10:37

Sample Collection END Date/Time: 10/28/20 10:43 Sample Received Date/Time: 10/30/20 10:40

EnvisionAir Sample Number: 20-2741
Sample Matrix: AIR

Compounds	Sample Results ug/m³	Reporting Limit ug/m ³	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	27,000	1280	1
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surro	ogate) 102%		
Analysis Date/Time:	11-2-20/18:18		
Analyst Initials	tjg		



Analytical Report

EnvisionAir

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

TO-15 Quality Control Data

EnvisionAir Batch Number: 110220AIR

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)	90%		
Analysis Date/Time:	11-2-20/07:23		
Analyst Initials	tjg		

			LCS/D	LCS	LCSD		
<u>LCS/LCSD</u>	LCS Results (ppbv)	LCSD Results (ppbv)	Conc(ppbv)	Rec.	Rec.	<u>RPD</u>	<u>Flag</u>
Vinyl Chloride	10.9	10.4	10	109%	104%	4.7%	
trans-1,2-Dichloroethene	8.46	8.45	10	85%	85%	0.1%	
cis-1,2-Dichloroethene	9.37	9.49	10	94%	95%	1.3%	
Trichloroethene	10.6	10.3	10	106%	103%	2.9%	
Tetrachloroethene	8.9	9.28	10	89%	93%	4.2%	
4-bromofluorobenzene (surrogate)	99%	105%					
Analysis Date/Time:	11-2-20/05:39	11-2-20/06:16					
Analyst Initials	tjg	tjg					



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Flag Number

Comments

1

Reported value is from a 400x dilution. TJG 11/4/20

#:

1 of

CHAIN OF CUSTODY RECORD

2030-593

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

Sample Number -11 30-27110 ENVISIONAIR **EnvisionAir** 40-00 -12 30-2M4 Time www.envision-air.com Received (in. Hg) Canister Pressure / Vacuum Date (in. Hg) Field . 25 Final 11-1/2 (in. Hg) Field 128 120 100 Sampling Type: Soil-Gas: A Indoor-Air: Sub-Slab: Controller Serial # Received by: XX1801 0096 AUS 6067 1000 REQUESTED PARAMETERS Canister Serial # 3008 (\$31011 11 \$1506(\$) 181 I 11018 \$1.0I Time X SHORT LIST: PCE, TCE, DCE, EDCE 10,15 Coll.
Time 5601 こみったい こ 1059 PPBV PPMV P.O. Number: 2020 .. 2035 Date QA/QC Required: (circle if applicable)
Level III Level IV Reporting Units needed: (circle) 1017 10/28/30 1LC = 1 Liter Canister 6LC = 6 Liter Canister TB = Tedlar Bag TD = Thermal Desorption Tube Date (Comp. End) Coll. Report Mic Was 350 Stone Rowe Project Name or Number: C494 BAOGER-10:01 Coll.
Time 1037 Sampled by: Media type: 10/28/30 Date Grab/Comp Start) Coll. Relinquished by: Address: WANKEINA, WI S3185 Desired TAT: (Please Circle One)

1 day 2 days 3 days Std (5 bus. days) 371 Media Type Client: Engre Forensics Report To: R. HOVER MAN Phone: 4/4, 6:30,0000 492-SVE-12 * No sample 10-3VE-14 Air Sample ID 6493 - SVE-EX Invoice Address: Comments:

07.0

0/32/120



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

December 1, 2020

EnvisionAir Project Number: 2020-626 Client Project Name: Badger Cleaners

Dear Mr. Hoverman,

Please find the attached analytical report for the samples received November 25, 2020. 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

Stanly O. Thurnicutt

Project Manager EnvisionAir, LLC



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: BADGER CLEANERS

Client Project Manager: ROB HOVERMAN

EnvisionAir Project Number: 2020-626

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)
20-2865	6492-SVE-EX	Α	11/23/20	10:45	11/23/20	10:50	11/25/20	13:55	-29	-3	-3
20-2866	6492-SVE-1S	Α	11/23/20	10:55	11/23/20	11:07	11/25/20	13:55	-28	-9	-9
20-2867	6492-SVE-1D	Α	11/23/20	11:11	11/23/20	11:23	11/25/20	13:55	-25	-10	-10



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www.envision-air.com

Client Name: ENVIROFORENSICS

Project ID: BADGER CLEANERS

Client Project Manager: ROB HOVERMAN

EnvisionAir Project Number: 2020-626

Analytical Method: TO-15
Analytical Batch: 112720AIR

Client Sample ID: 6492-SVE-EX Sample Collection START Date/Time: 11/23/20 10:45

Sample Collection END Date/Time:11/23/2010:50Sample Received Date/Time:11/25/2013:55

EnvisionAir Sample Number: 20-2865 **Sample Matrix:** AIR

Compounds	Sample Results ug/m³	Reporting Limit ug/m ³	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	2,320	638	2
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surro	gate) 89%		
Analysis Date/Time:	11-27-20/19:46		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS

Project ID: BADGER CLEANERS

Client Project Manager: ROB HOVERMAN

EnvisionAir Project Number: 2020-626

Analytical Method: TO-15
Analytical Batch: 112720AIR

Client Sample ID: 6492-SVE-1S Sample Collection START Date/Time: 11/23/20 10:55

Sample Collection END Date/Time: 11/23/20 11:07 Sample Received Date/Time: 11/25/20 13:55

EnvisionAir Sample Number: 20-2866 Sample Matrix: AIR

Compounds	Sample Results ug/m³	Reporting Limit ug/m³	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	5,250	128	1
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surro	ogate) 97%		
Analysis Date/Time:	11-27-20/21:06		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS

Project ID: BADGER CLEANERS

Client Project Manager: ROB HOVERMAN

EnvisionAir Project Number: 2020-626

Analytical Method: TO-15
Analytical Batch: 112720AIR

Client Sample ID: 6492-SVE-1D Sample Collection START Date/Time: 11/23/20 11:11

Sample Collection END Date/Time: 11/23/20 11:23 20-2867 Sample Received Date/Time: 11/25/20 13:55

EnvisionAir Sample Number: 20-286 **Sample Matrix:** AIR

Sample Results ug/m³ Reporting Limit ug/m³ Compounds <u>Flag</u> cis-1,2-Dichloroethene < 198 198 128 Tetrachloroethene 1,630 1 trans-1,2-Dichloroethene < 396 396 Trichloroethene < 10.7 10.7 Vinyl Chloride < 12.8 12.8

Vinyl Chloride < 12.8
4-bromofluorobenzene (surrogate) 102%
Analysis Date/Time: 11-27-20/23:08
Analyst Initials tjg



Analytical Report

EnvisionAir

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

TO-15 Quality Control Data

EnvisionAir Batch Number: 112720AIR

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)	96%		
Analysis Date/Time:	11-27-20/13:48		
Analyst Initials	tjg		

		LCS/D	LUS	<u>LCSD</u>		
LCS Results (ppbv)	LCSD Results (ppbv)	Conc(ppbv)	Rec.	Rec.	<u>RPD</u>	Flag
9.27	9.34	10	93%	93%	0.8%	
10.4	10.5	10	104%	105%	1.0%	
9.79	10.1	10	98%	101%	3.1%	
9.56	9.68	10	96%	97%	1.2%	
9.03	8.76	10	90%	88%	3.0%	
106%	97%					
11-27-20/12:38	11-27-20/13:14					
tjg	tjg					
	9.27 10.4 9.79 9.56 9.03 106% 11-27-20/12:38	9.27 9.34 10.4 10.5 9.79 10.1 9.56 9.68 9.03 8.76 106% 97% 11-27-20/12:38 11-27-20/13:14	LCS Results (ppbv) LCSD Results (ppbv) Conc(ppbv) 9.27 9.34 10 10.4 10.5 10 9.79 10.1 10 9.56 9.68 10 9.03 8.76 10 106% 97% 11-27-20/12:38 11-27-20/13:14	LCS Results (ppbv) LCSD Results (ppbv) Conc(ppbv) Rec. 9.27 9.34 10 93% 10.4 10.5 10 104% 9.79 10.1 10 98% 9.56 9.68 10 96% 9.03 8.76 10 90% 106% 97% 11-27-20/12:38 11-27-20/13:14 11-27-20/13:14	LCS Results (ppbv) Conc(ppbv) Rec. Rec. 9.27 9.34 10 93% 93% 10.4 10.5 10 104% 105% 9.79 10.1 10 98% 101% 9.56 9.68 10 96% 97% 9.03 8.76 10 90% 88% 106% 97% 11-27-20/12:38 11-27-20/13:14 11-27-20/13:14	LCS Results (ppbv) LCSD Results (ppbv) Conc(ppbv) Rec. Rec. RPD 9.27 9.34 10 93% 93% 0.8% 10.4 10.5 10 104% 105% 1.0% 9.79 10.1 10 98% 101% 3.1% 9.56 9.68 10 96% 97% 1.2% 9.03 8.76 10 90% 88% 3.0% 106% 97% 11-27-20/13:14 11-27-20/13:14 11-27-20/13:14 11-27-20/13:14



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Fax: 317-351-0882 www.envision-air.com

<u>Flag Number</u>	<u>Comments</u>
1	Reported value is from a 40x dilution. TJG 12/1/20
2	Reported value is from a 200x dilution. TJG 12/1/20

CHAIN OF CUSTODY RECORD

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

	Relinquished by:	Comments: Show + 112	The state of the s	TO FOR THE BELL PROPERTY OF A CASE OF	THE RESIDENCE AND ADDRESS OF THE SECOND		THE PROPERTY OF THE PROPERTY O	1 1000000000000000000000000000000000000	GYAR-SUE-IDILL	6492-SNE-18 11C	GYPT-SNET-EX ILC	Air Sample ID Media Type (m cod above)	Desired TAT: (Please Circle One) 1 day 2 days 3 days Std (5 bus. days)	Invoice Address:	Phone: 414-630-0060	Report To: R. Harry	Address: To Grand Sixx	Report NI 6いにかって Store Kuga Project Name or Number:	Client:
	ed by:	1St: PCE, TC		111777	1		i processor de la constantina della constantina		11-23-26 [1:1]	11-23-20 10:55	11-12-10 10:45	Coll. Coll. Date Time (grab/comp (grab/comp Start)	Media type: 1LC = 1 Liter Canister 6LC = 6 Liter Canister TB = Trediar Bag TD = Thermal Desorption Tube	Reporting Units needed: (drcle)	QA/QC Required: (circle if applicable) Cevel III Level IV		ixx Badger Clearers	Riogic Project Name or Num	P.O. Number: 7070-70
07.57.11	Date	TCE, cDCE,				Parameter in the latest and the late	THE PARAMETER.		11-23-20 [1:23	11-23-20 11:07	11-23-20 10:50	Coll. Coll. Date Time [Comp. Ent] (Comp. Ent)	er rption Tube	led: (aircle) PPBV PPMV	de if applicable) Level IV		leane.es	Į.	0-2/02/0
6:02	Time	, tDCE, VC			THE COLUMN TWO IS NOT				×	×	× ,		70.15	Full List		_		REQL	
1000	Rece	VC			111111111111111111111111111111111111111				77628	83720	83919	Canister Serial#	10.15	`		is in the	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	REQUESTED PARAMETERS	- AH-70-
	Received by:		- manifestation		THE STATE OF THE S		***************************************		8	700	2000	Flow Controller Serial #	1 11	Soil-Gas: X				TERS	The same of the sa
			-						72	-2.6	- 107-	Initial Field (in: Hg) (Canister Pr		la visit	F Z	· · · · ·		J
0, 17, 11	Date								0 -	2	· C.	.	Canister Pressure / Vacuum	may anvicio					
		######################################							-10 2	2	W	Lab Received Sa (in. Hg)	um						
6.00	Time					A PARTY OF THE PAR	***************************************	— m.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	20-2867	20-1866	20-2865	EnvisionAir Sample Number							



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

December 30, 2020

EnvisionAir Project Number: 2020-674

Client Project Name: 6492

Dear Mr. Hoverman,

Please find the attached analytical report for the samples received December 22, 2020. 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

Stanly a. Hunnicutt

Project Manager EnvisionAir, LLC



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: 6492

Client Project Manager: ROB HOVERMAN

EnvisionAir Project Number: 2020-674

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)
20-3074	6492-SVE-EX	Α	12/17/20		12/17/20		12/21/20	10:00	-30	-4	-4
20-3075	6492-SVE-1S	Α	12/17/20		12/17/20		12/21/20	10:00	-28	-9	-9
20-3076	6492-SVE-1D	Α	12/17/20		12/17/20		12/21/20	10:00	-30	-13	-13



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Client Name: ENVIROFORENSICS

Project ID: 6492

Client Project Manager: ROB HOVERMAN

EnvisionAir Project Number: 2020-674

Analytical Method: TO-15
Analytical Batch: 122520AIR

Client Sample ID: 6492-SVE-EX Sample Collection START Date/Time: 12/17/20

Sample Collection END Date/Time: 12/17/20

EnvisionAir Sample Number: 20-3074 Sample Received Date/Time: 12/22/20 10:00

Sample Matrix: AIR

Compounds	Sample Results ug/m ³	Reporting Limit ug/m ³	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	969	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surro	ogate) 98%		
Analysis Date/Time:	12-25-20/00:18		
Analyst Initials	tjg		



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: 6492

Client Project Manager: ROB HOVERMAN

EnvisionAir Project Number: 2020-674

Analytical Method: TO-15
Analytical Batch: 122420AIR

Client Sample ID: 6492-SVE-1S Sample Collection START Date/Time: 12/17/20

Sample Collection END Date/Time: 12/17/20
EnvisionAir Sample Number: 20-3075 Sample Received Date/Time: 12/22/20 10:00

Sample Matrix: AIR

<u>Compounds</u>	Sample Results ug/m ³	Reporting Limit ug/m ³	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	669	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surre	ogate) 112%		
Analysis Date/Time:	12-25-20/01:39		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS

Project ID: 6492

Client Project Manager: ROB HOVERMAN

EnvisionAir Project Number: 2020-674

Analytical Method: TO-15
Analytical Batch: 122420AIR

Client Sample ID: 6492-SVE-1D Sample Collection START Date/Time: 12/17/20

Sample Collection END Date/Time: 12/17/20

EnvisionAir Sample Number: 20-3076 Sample Received Date/Time: 12/22/20 10:00 Sample Matrix: AIR

<u>Compounds</u>	Sample Results ug/m ³	Reporting Limit ug/m ³	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	900	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	41.4	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (suri	rogate) 104%		
Analysis Date/Time:	12-25-20/03:00		
Analyst Initials	tjg		



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EnvisionAir

Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number: 122420AIR

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)	106%		
Analysis Date/Time:	12-24-20/15:46		
Analyst Initials	tjg		

			LCS/D	LCS	LCSD		
LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	Conc(ppbv)	Rec.	Rec.	<u>RPD</u>	Flag
Vinyl Chloride	9.44	9.42	10	94%	94%	0.2%	
trans-1,2-Dichloroethene	9.63	10.3	10	96%	103%	6.7%	
cis-1,2-Dichloroethene	10	10.2	10	100%	102%	2.0%	
Trichloroethene	9.13	8.68	10	91%	87%	5.1%	
Tetrachloroethene	8.77	8.47	10	88%	85%	3.5%	
4-bromofluorobenzene (surrogate)	95%	100%					
Analysis Date/Time:	12-24-20/12:58	12-24-20/13:44					
Analyst Initials	tjg	tjg					



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

Client: Engelogensics	SSICS	P.O. Number:		2010 2158	100	BEOIL	PEOLIFCTED PARAMETERS	rers				
Report Wit W333 30 Stave RiberE Address: Ste Ca Address: Ste Ca	roughiste	Project	Project Name or Number:	lumber:			(\$3,004		- 1			
REPORT TO: 2, HOUSEMAN / P. Brown	1. Brown	Sampled by:	d by:				I WASH		THE REAL PROPERTY AND ADDRESS OF THE PERTY ADDRESS OF THE PERTY ADDRESS OF THE PERTY AND ADDRESS OF THE PERTY ADDR		210	FNVISIONAIR
Phone: 4/4 630 0000	0	QA/QC	Required: (circl Level III	QA/QC Required: (circle if applicable)	able)	\	30dS) 15			-		
Invoice Address:		Reporting ug/m³	ng Units nee	Reporting Units needed: (circle)	e) PPMV	Poll List	1	Soil-Gas:	···l	www.en	www envision-air com	E
Desired TAT: (Please Circle One) 1 day 2 days 3 days Std (5 bus. days)	bus. days)	Media type:	1LC = 1 Liter C 6LC = 6 Liter C TB = Tedlar B TD = Thermal	Media type: 1LC = 1 Liter Canister 6LC = 6 Liter Canister TB = Tediar Bag TD = Thermal Desorption Tube		STOU STOU	1 / 500 / 500	4.0	Canister	Canister Pressure / Vacuum	Уасиит	
Air Sample ID	Media Type	Coll. Date	Coll. Time (Grab/Comp	Coll. Date	Coll. Time		Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
1969 6967		12/11/20		12/2/20		X	45148	511	-30	14	7	20-3074
100 - 20E - EX		-				X	5/8	340	7.8	6	6-	20-30.75
6492-50E-14	1	1		1		×	83734	108	- 30	-13	13	20-3076
900											4	
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				-			Sam men	nnem			J	1221



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

January 19, 2021

EnvisionAir Project Number: 2021-14

Client Project Name: 6492 - Badger Cleaners

Dear Mr. Hoverman,

Please find the attached analytical report for the samples received January 15, 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,

Stanley A Hunnicutt

Stanly a. Hunnicutt

Project Manager EnvisionAir, LLC



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: 6492 - BADGER CLEANERS

Client Project Manager: ROB HOVERMAN

EnvisionAir Project Number: 2021-14

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)
21-50	6492-SVE-EX	Α	1/14/21	10:14	1/14/21	10:16	1/15/21	15:30	-27	-3	-3
21-51	6492-SVE-1S	Α	1/14/21	10:21	1/14/21	10:32	1/15/21	15:30	-29	-4	-4
21-52	6492-SVE-1D	Α	1/14/21	10:39	1/14/21	10:50	1/15/21	15:30	-27	-4	-4



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Client Name: ENVIROFORENSICS

Project ID: 6492 - BADGER CLEANERS

Client Project Manager: ROB HOVERMAN

EnvisionAir Project Number: 2021-14

Analytical Method: TO-15
Analytical Batch: 011821AIR

Client Sample ID: 6492-SVE-EX Sample Collection START Date/Time: 1/14/21 10:14

Sample Collection END Date/Time: 1/14/21 10:16
Sample Received Date/Time: 1/15/21 15:30

EnvisionAir Sample Number: 21-50
Sample Matrix: AIR

Analyst Initials

Sample Results ug/m³ Reporting Limit ug/m³ Compounds <u>Flag</u> cis-1,2-Dichloroethene < 198 198 568 Tetrachloroethene 31.9 trans-1,2-Dichloroethene < 396 396 Trichloroethene < 10.7 10.7 Vinyl Chloride < 12.8 12.8 4-bromofluorobenzene (surrogate) 98% Analysis Date/Time: 1-18-21/23:19

tjg



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Client Name: ENVIROFORENSICS

Project ID: 6492 - BADGER CLEANERS

Client Project Manager: ROB HOVERMAN

EnvisionAir Project Number: 2021-14

Analytical Method: TO-15
Analytical Batch: 011821AIR

Client Sample ID: 6492-SVE-1S Sample Collection START Date/Time: 1/14/21 10:21

Sample Collection END Date/Time: 1/14/21 10:32

EnvisionAir Sample Number: 21-51 Sample Received Date/Time: 1/15/21 15:30

Sample Matrix: AIR

Compounds	Sample Results ug/m ³	Reporting Limit ug/m ³	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	445	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surro	gate) 94%		
Analysis Date/Time:	1-19-21/00:38		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS

Project ID: 6492 - BADGER CLEANERS

Client Project Manager: ROB HOVERMAN

EnvisionAir Project Number: 2021-14

Analytical Method: TO-15 **Analytical Batch:** 011821AIR

Client Sample ID: 6492-SVE-1D Sample Collection START Date/Time: 1/14/21 10:39

> Sample Collection END Date/Time: 1/14/21 10:50

EnvisionAir Sample Number: Sample Received Date/Time: 21-52

1/15/21 15:30

Sample Matrix:

AIR

Compounds	Sample Results ug/m ³	Reporting Limit ug/m ³	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	612	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surro	gate) 100%		
Analysis Date/Time:	1-19-21/08:17		
Analyst Initials	tjg		



Analytical Report

EnvisionAir

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TO-15 Quality Control Data

EnvisionAir Batch Number: 011821AIR

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)	104%		
Analysis Date/Time:	1-18-21/11:01		
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	11	10.9	10	110%	109%	0.9%	
trans-1,2-Dichloroethene	9.6	10	10	96%	100%	4.1%	
cis-1,2-Dichloroethene	8.98	8.77	10	90%	88%	2.4%	
Trichloroethene	9.6	10.6	10	96%	106%	9.9%	
Tetrachloroethene	9.96	10.3	10	100%	103%	3.4%	
4-bromofluorobenzene (surrogate)	90%	96%					
Analysis Date/Time:	1-18-21/09:42	1-18-21/10:27					
Analyst Initials	tjg	tjg					



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Flag Number Comments

CHAIN OF CUSTODY RECORD

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Ciont		P.O. Nur	P.O. Number: 2007	7-160	VZ							
CHERT.	2 Reck		Project Name or Number		1001	REQUE	REQUESTED PARAMETERS	TERS				
Address: Way keshar, wi	010		Badger		Sass		ROLES	/				
Report To: K. Houseman	COC	Sampled	Sampled by: R	BRO	5		41.51	\		>		RIVISIONAR
Phone:		QA/QC	Required: (ard Level III	e if	applicable)	1	Sads) is	Sampling Type:				
Address:		Reporting ug/m³	ng Units ne	Reporting Units needed: (airde)	е)	Full List		Soil-Gas:		www.en	www.envision-air.com	om
Desired TAT: (Please Girde One) 1 day 2 days 3 days \$td (5 bus. days)	S. days)	Media type:	1LC = 1 Liter C 6LC = 6 Liter C TB = Tedlar B TD = Thermal	1LC = 1 Liter Canister 6LC = 6 Liter Canister TB = Tedlar Bag TD = Thermal Desorption Tube		51.01 50.13	1 / 500/5	Indoor-Air:	Canister	Canister Pressure / Vacuum	<i>Уасиит</i>	
Air Sample ID	Media Type	Coll. Date	Coll. Time	Coll. Date (comp. End)	Coll.		Canister Serial#	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
12-41-1 HI C 1-14-21 10:14 1-14-21	(annual control	14-21	10:14	12-11-1	91:01	×	84051	3000	也一	9	13	21-50
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21-12-12-12-12-12-12-12-12-12-12-12-12-1	>	,										
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APPENDIX B

Mass Removal Graphs

Document: 6492-1620



