



REMEDIATION PROGRESS REPORT

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

February 17, 2021

Prepared By:

EnviroForensics, LLC
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Phone: (317) 972-7870
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A handwritten signature in blue ink, appearing to read "RFedorchak".

Robert Fedorchak, PE
Senior Engineer

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

Rob Hoverman, PG
Senior Project Manager

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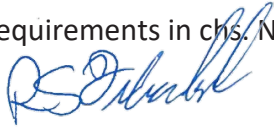
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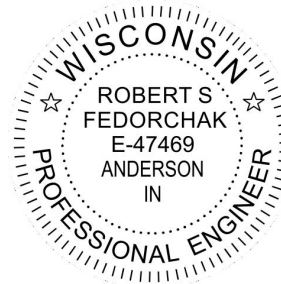
CERTIFICATIONS

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 chs. 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 through 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

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
6492-SVE-EX	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
	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	
6492-SVE-1S	1/23/2020	20,400	48.9	<198	<396	<12.8
	6/22/2020	3,590	<10.7	<198	<396	<12.8
	10/28/2020	27,000	<10.7	<198	<396	<12.8
	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
6492-SVE-1d	1/23/2020	15,000	<10.7	<198	<396	<12.8
	6/22/2020	2,970	<10.7	<198	<396	<12.8
	10/28/2020	NA	NA	NA	NA	NA
	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

Date	Time	System Runtime	VFD Setting	Dilution	System Vacuum	Conveyance Line Vacuum		Exhaust Pressure	Influent Temperature	Exhaust Temperature	Pre-Filter Differential Pressure	Post-Filter Differential Pressure	Flow Rate	Calculated Flow Rate	Effluent VOC Concentration	
		Panel Display	Panel Display	Valve	Panel Display	1	2	Exhaust Gauge	Pitot Tube	Exhaust Pipe	Pitot Tube	Pitot Tube	Pitot Tube	Panel Display		Exhaust Port
		Hours	Hertz	%	in Hg	in Hg		in H ₂ O	°F	°F	in H ₂ O		in H ₂ O	in H ₂ O	SCFM	µg/m ³
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 H₂O = 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

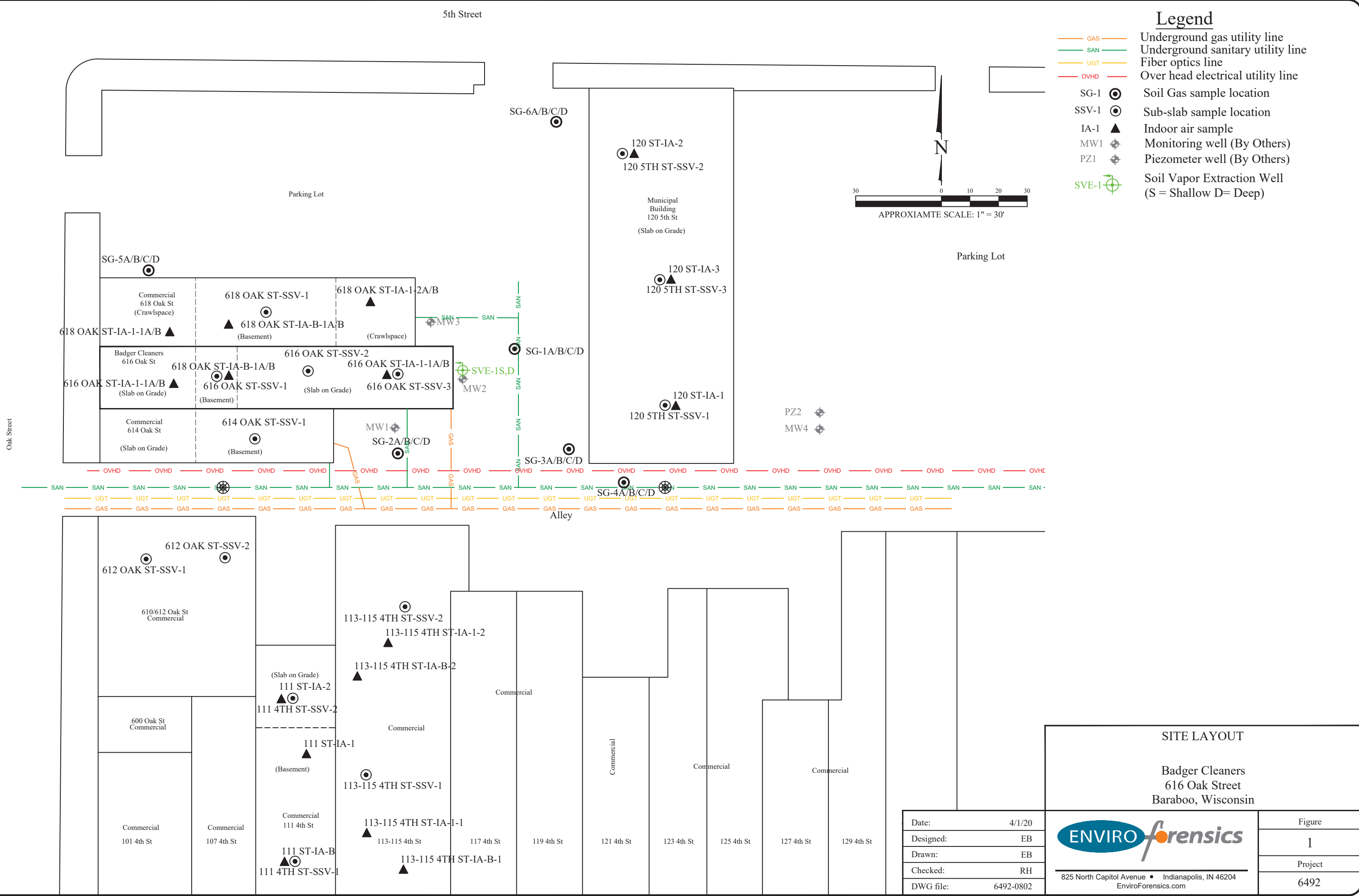
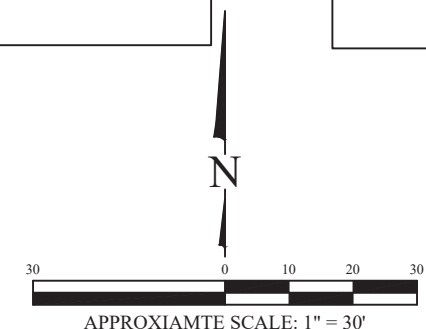
Sample Date	Pitot Tube Calculation		VOC Concentration ug/m ³	VOC Concentration lbs/m ³	Runtime hrs	Sample	Sample	Pitot Tube Calculation	
	Flow Rate	Flow Rate				Duration	Duration	Mass Removed	Cumulative Mass
	SCFM	m ³ /min				hrs	mins	lbs	lbs
1/14/2020	360	10.2	63,037	0.000139	1.3	1.3	78	0.11	0.11
1/15/2020	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

5th Street

Legend

- GAS — Underground gas utility line
- SAN — Underground sanitary utility line
- UGT — Fiber optics line
- OVHD — Over head electrical utility line
- SG-1  Soil Gas sample location
- SSV-1  Sub-slab sample location
- IA-1  Indoor air sample
- MW1  Monitoring well (By Others)
- PZ1  Piezometer well (By Others)
- SVE-1  Soil Vapor Extraction Well (S = Shallow D= Deep)



SITE LAYOUT

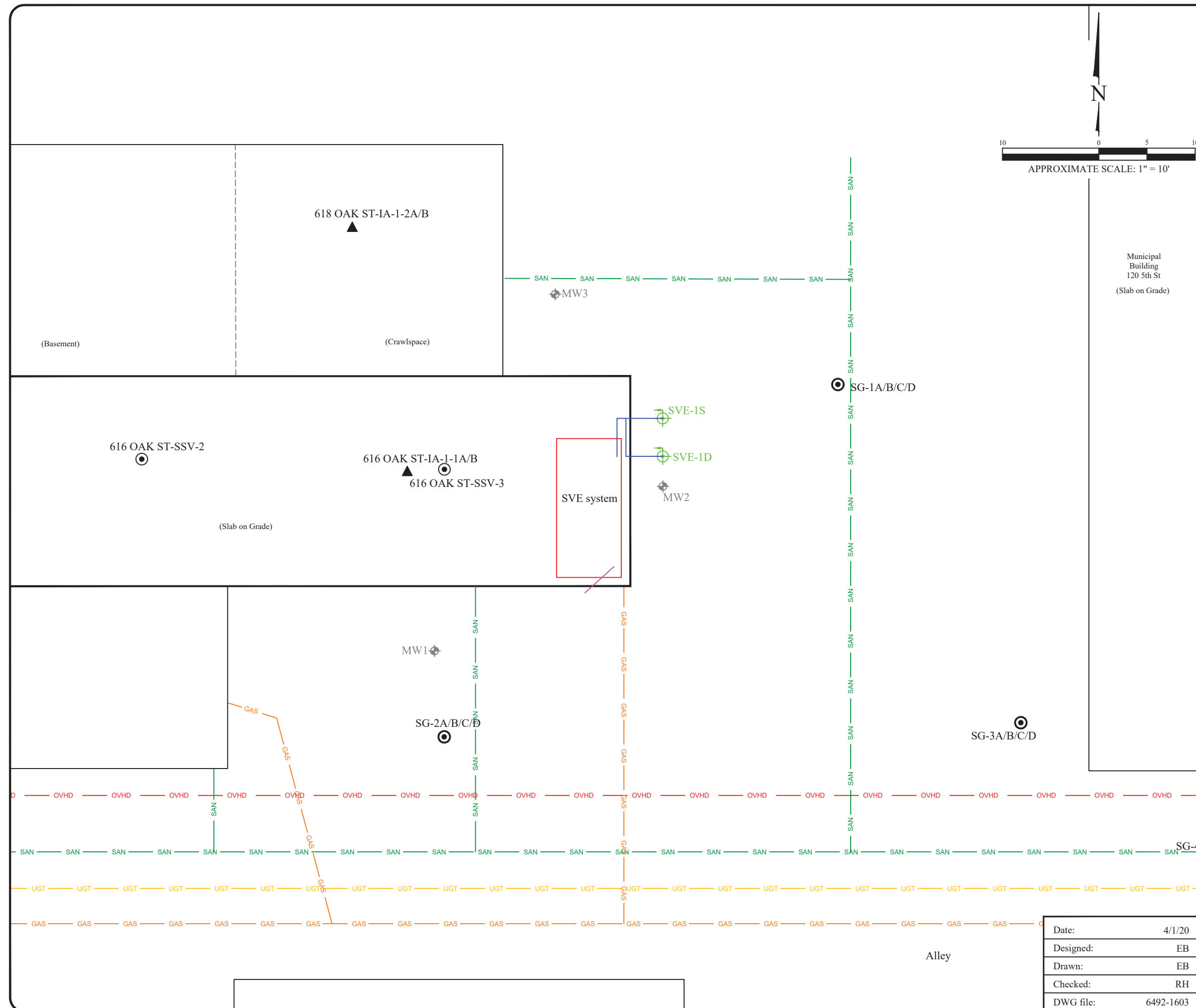
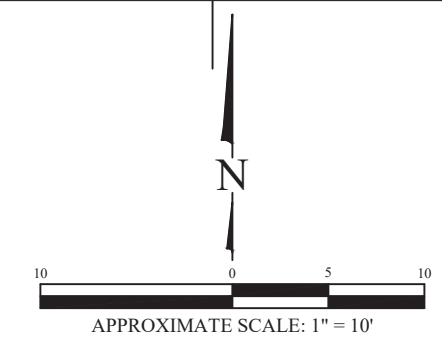
Badger Cleaners
616 Oak Street
Baraboo, Wisconsin

Date:	4/1/20	 825 North Capitol Avenue • Indianapolis, IN 46204 EnviroForensics.com
Designed:	EB	
Drawn:	EB	
Checked:	RH	
DWG file:	6492-0802	

Figure	1
Project	6492

Legend

- GAS — Underground gas utility line
- SAN — Underground sanitary utility line
- UGT — Fiber optics line
- OVHD — Over head electrical utility line
- SG-1 Soil Gas sample location
- SSV-1 Sub-slab sample location
- IA-1 Indoor air sample
- MW1 Monitoring well (By Others)
- PZ1 Piezometer well (By Others)
- SVE-1 Soil Vapor Extraction Well (S = Shallow D= Deep)
- SVE conveyance piping
- SVE exhaust piping



Municipal Building
120 5th St
(Slab on Grade)

SVE EXTRACTION SYSTEM LAYOUT

Badger Cleaners
616 Oak Street
Baraboo, Wisconsin

Date:	4/1/20
Designed:	EB
Drawn:	EB
Checked:	RH
DWG file:	6492-1603







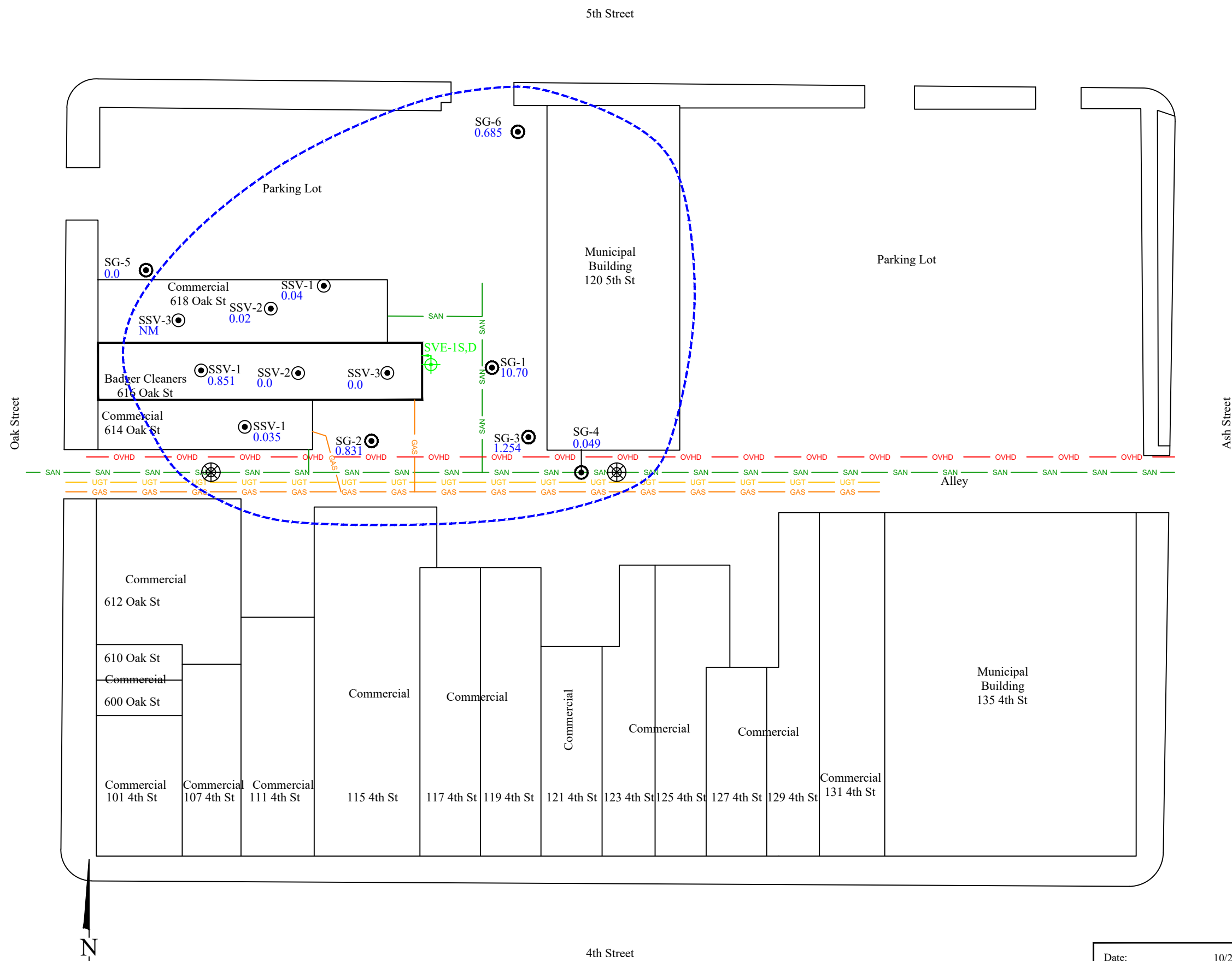
825 North Capitol Avenue • Indianapolis, IN 46204
EnviroForensics.com

Figure	2
Project	6492

Alley

Legend


- SG-1  Soil gas sample port
- SS-1  Sub-slab vapor sample port
- SVE-1  Soil Vapor Extraction Well
(S = Shallow D= Deep)
- 0.1  Vacuum influence from SVE system
in inches of water
(Dashed where inferred)
- 0.002 = Pressure field extension
results (inches of water)
- NM = Not measured



REMEDATION SYSTEM SHALLOW RADIUS OF INFLUENCE MAP AUGUST 26, 2020

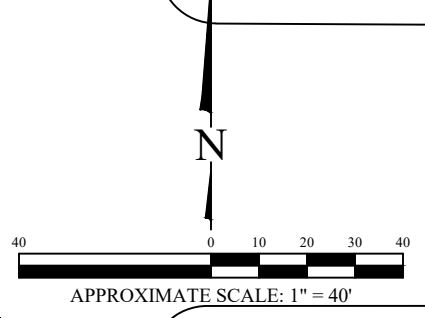
Badger Cleaners
616 Oak Street
Baraboo, Wisconsin

Date:	10/26/20
Designed:	EB
Drawn:	EB
Checked:	RF
DWG file:	6492-1712






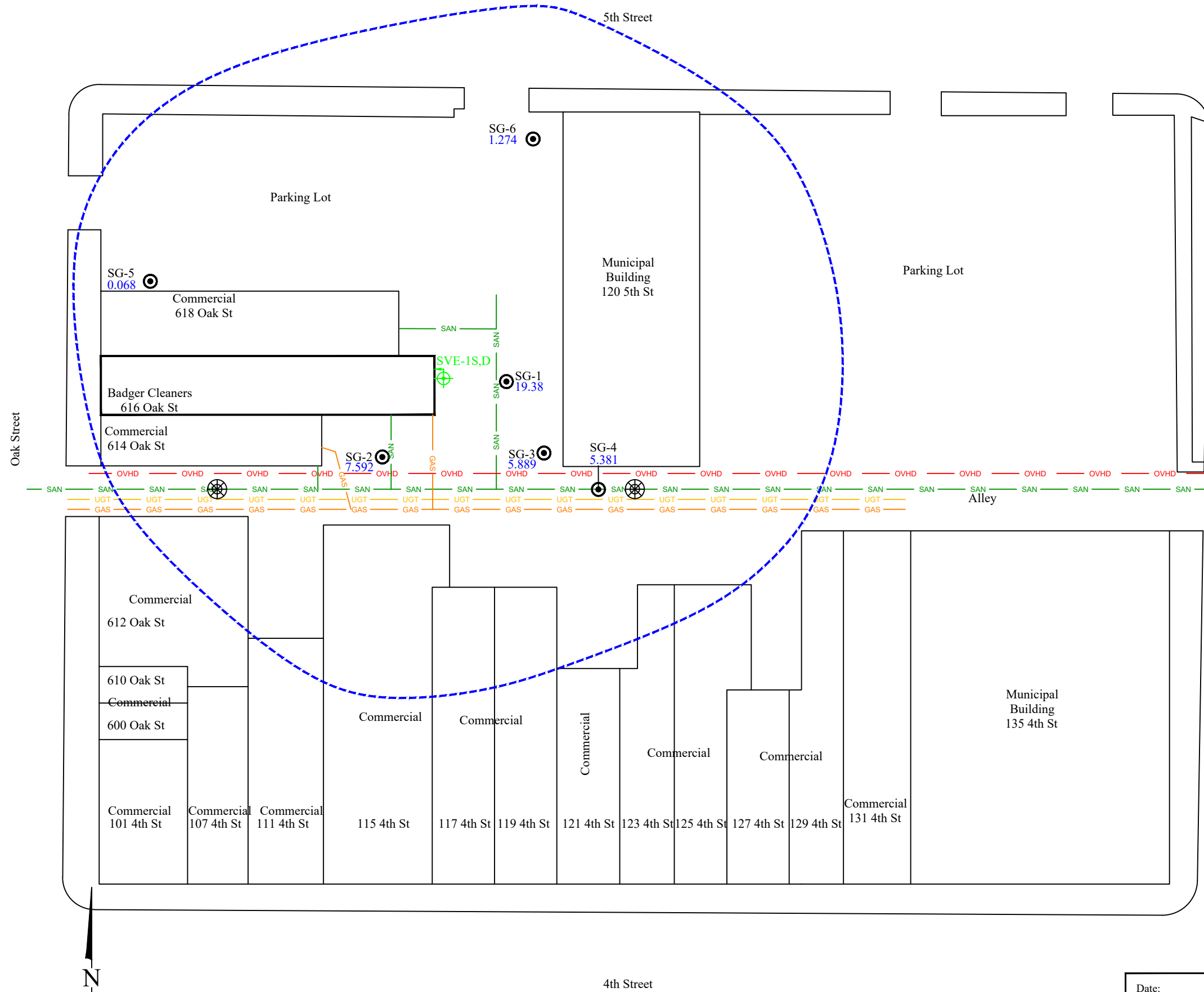
825 North Capitol Avenue • Indianapolis, IN 46204
EnviroForensics.com

Figure	3
Project	6492



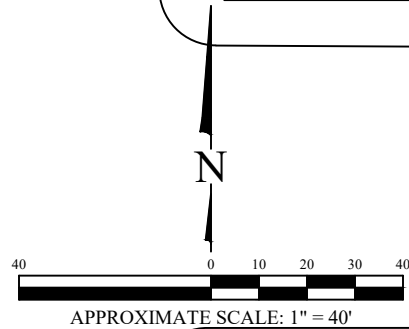
Legend

- SG-1  Soil gas sample port
- SVE-1  Soil Vapor Extraction Well
(S = Shallow D= Deep)
- 0.1  Vacuum influence from SVE system
in inches of water
(Dashed where inferred)
- 0.002 = Pressure field extension
results (inches of water)



REMEDATION SYSTEM DEEP RADIUS OF
INFLUENCE MAP AUGUST 26, 2020

Badger Cleaners
616 Oak Street
Baraboo, Wisconsin



Date:	10/26/20
Designed:	EB
Drawn:	EB
Checked:	RF
DWG file:	6492-1713



825 North Capitol Avenue • Indianapolis, IN 46204
EnviroForensics.com

Figure	4
Project	6492

APPENDIX A

SVE System Laboratory Reports



EnvisionAir
1441 Sadler Circle West Drive
Indianapolis, IN 46239
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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,

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

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC



EnvisionAir
 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

<u>Laboratory Sample Number:</u>	<u>Sample Description:</u>	<u>Matrix:</u>	<u>START</u>	<u>START</u>	<u>End Date</u>	<u>End Time</u>	<u>Date</u>	<u>Time</u>	<u>Canister Pressure / Vacuum</u>		<u>Lab</u>
			<u>Date</u>	<u>Time</u>					<u>Initial Field</u>	<u>Final Field</u>	
			<u>Collected:</u>	<u>Collected:</u>	<u>Collected:</u>	<u>Collected:</u>	<u>Received:</u>	<u>Received:</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>
20-1527	6492-SVE-EX	A	6/22/20	13:25	6/22/20	13:30	6/25/20	8:45	-28	-4	-4
20-1528	6492-SVE-1S	A	6/22/20	13:34	6/22/20	13:40	6/25/20	8:45	-27	-7	-7
20-1529	6492-SVE-1D	A	6/22/20	13:43	6/22/20	13:53	6/25/20	8:45	-30	-11	-11



EnvisionAir
 1441 Sadler 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: 6492-SVE-EX **Sample Collection START Date/Time:** 6/22/20 13:25
EnvisionAir Sample Number: 20-1527 **Sample Collection END Date/Time:** 6/22/20 13:30
Sample Matrix: AIR **Sample Received Date/Time:** 6/25/20 8:45

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<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 (surrogate)	92%		
Analysis Date/Time:	6-28-20/18:17		
Analyst Initials	tjg		



EnvisionAir
1441 Sadler 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: 6492-SVE-1S
EnvisionAir Sample Number: 20-1528
Sample Matrix: AIR

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

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<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 (surrogate)	88%		
Analysis Date/Time:	6-28-20/18:55		
Analyst Initials	tjg		



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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-1D **Sample Collection START Date/Time:** 6/22/20 13:43
EnvisionAir Sample Number: 20-1529 **Sample Collection END Date/Time:** 6/22/20 13:53
Sample Matrix: AIR **Sample Received Date/Time:** 6/25/20 8:45

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<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 (surrogate)	104%		
Analysis Date/Time:	6-28-20/19:33		
Analyst Initials	tjg		

TO-15 Quality Control Data

EnvisionAir Batch Number: 062720AIR

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

<u>LCS/LCSD</u>	<u>LCS Results (ppbv)</u>	<u>LCSD Results (ppbv)</u>	<u>LCS/D Conc(ppbv)</u>	<u>LCS Rec.</u>	<u>LCSD Rec.</u>	<u>RPD</u>	<u>Flag</u>
Vinyl Chloride	9.71	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					



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Flag Number

Comments

- | | |
|---|--|
| 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 |



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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,

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

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC



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Client Name: ENVIROFORENSICS
Project ID: BADGER CLEANERS 6492
Client Project Manager: ROB HOVERMAN
EnvisionAir Project Number: 2020-409

Sample Summary

Canister Pressure / Vacuum

<u>Laboratory Sample Number:</u>	<u>Sample Description:</u>	<u>START</u> <u>Date</u>	<u>START</u> <u>Time</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>Collected:</u>	<u>Collected:</u>	<u>Collected:</u>	<u>Collected:</u>	<u>Received:</u>	<u>Received</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>
20-1913	6492-SVE-EX	A	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
EnvisionAir Sample Number: 20-1913
Sample Matrix: AIR

Sample Collection START Date/Time: 7/30/20 11:28
Sample Collection END Date/Time: 7/30/20 11:33
Sample Received Date/Time: 8/3/20 15:30

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<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 (surrogate)	101%		
Analysis Date/Time:	8-3-20/15:42		
Analyst Initials	tjg		



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Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number: 080320CAIR

<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)	90%		
Analysis Date/Time:	8-3-20/21:53		
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	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

1

Comments

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



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Mr. Rob Hoverman
Enviroforensics
N16 W. 23390 Stone Ridge Dr
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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,

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

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC



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Client Name: ENVIROFORENSICS
Project ID: 6492
Client Project Manager: ROB HOVERMAN
EnvisionAir Project Number: 2020-490

Sample Summary

Canister Pressure / Vacuum

<u>Laboratory Sample Number:</u>	<u>Sample Description:</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>Collected:</u>	<u>Collected:</u>	<u>Collected:</u>	<u>Collected:</u>	<u>Received:</u>	<u>Received:</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>	
20-2281	6492-SVE-EX	A	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: 8/26/20 10:56

EnvisionAir Sample Number: 20-2281

Sample Received Date/Time: 8/28/20 16:17

Sample Matrix: AIR

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<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 (surrogate)	104%		
Analysis Date/Time:	9-3-20/15:19		
Analyst Initials	tjg		

TO-15 Quality Control Data

EnvisionAir Batch Number: 090220CAIR

<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)	106%		
Analysis Date/Time:	9-2-20/23:53		
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	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

1

Comments

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



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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,

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

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC



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Client Name: ENVIROFORENSICS
Project ID: BADGER 6492
Client Project Manager: ROB HOVERMAN
EnvisionAir Project Number: 2020-564

Sample Summary

Canister Pressure / Vacuum

<u>Laboratory Sample Number:</u>	<u>Sample Description:</u>	<u>START</u> <u>Date</u>	<u>START</u> <u>Time</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>Received</u>	
		<u>Collected:</u>	<u>Collected:</u>	<u>Collected:</u>	<u>Collected:</u>	<u>Received:</u>	<u>Received</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>	
20-2621	6492-SVE-EX	A	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

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<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 (surrogate)	102%		
Analysis Date/Time:	10-8-20/10:08		
Analyst Initials	tjg		

TO-15 Quality Control Data

EnvisionAir Batch Number: 100620CAIR

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

<u>LCS/LCSD</u>	<u>LCS Results (ppbv)</u>	<u>LCSD Results (ppbv)</u>	<u>LCS/D Conc(ppbv)</u>	<u>LCS Rec.</u>	<u>LCSD Rec.</u>	<u>RPD</u>	<u>Flag</u>
Vinyl Chloride	9.65	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

1

Comments

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



EnvisionAir
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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,

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

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC



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Client Name: ENVIROFORENSICS
Project ID: 6492 - BADGER CLEANERS
Client Project Manager: ROB HOVERMAN
EnvisionAir Project Number: 2020-593

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>Collected:</u>	<u>Collected:</u>							<u>Collected:</u>
20-2740	6492-SVE-EX	A	10/28/20	10:17	10/28/20	10:25	10/30/20	10:40	-28	-11	-11
20-2741	6492-SVE-1S	A	10/28/20	10:37	10/28/20	10:43	10/30/20	10:40	-29	-12	-12



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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
EnvisionAir Sample Number: 20-2740
Sample Matrix: AIR

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

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<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 (surrogate)	106%		
Analysis Date/Time:	11-2-20/17:04		
Analyst Initials	tjg		



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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
EnvisionAir Sample Number: 20-2741
Sample Matrix: AIR

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

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<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 (surrogate)	102%		
Analysis Date/Time:	11-2-20/18:18		
Analyst Initials	tjg		

TO-15 Quality Control Data

EnvisionAir Batch Number: 110220AIR

<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)	90%		
Analysis Date/Time:	11-2-20/07:23		
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	10.9	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					



EnvisionAir
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Flag Number

1

Comments

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

2020-593

CHAIN OF CUSTODY RECORD

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

Client: <u>EnviroForensics</u>	P.O. Number: <u>2020-2035</u>
Report <u>NW3390 Stone Road</u>	Project Name or Number:
Address: <u>WAUKESHA, WI 53153</u>	<u>6492 - BADGER CLEANERS</u>
Report To: <u>R. Hoverman</u>	Sampled by:
Phone: <u>414.630.0060</u>	QA/QC Required: (circle if applicable) Level III Level IV
Invoice Address:	Reporting Units needed: (circle) ug/m ³ mg/m ³ PPBV PPMV
Desired TAT: (Please Circle One) 1 day 2 days 3 days Std (5 bus. days)	Media type: 1LC = 1 Liter Canister 6LC = 6 Liter Canister TB = Tedlar Bag TD = Thermal Desorption Tube

REQUESTED PARAMETERS

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



Sampling Type:
Soil-Gas:
Sub-Slab:
Indoor-Air:
www.envision-air.com

Air Sample ID	Media Type (see code above)	Coll. Date (Grab/Comp Start)	Coll. Time (Grab/Comp Start)	Coll. Date (Comp. End)	Coll. Time (Comp. End)	Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
6492 - SVE-EX	1LC	10/28/20	10:17	10/28/20	10:25	2065	0061	-28	-11	-11	20-2710
6492 - SVE-1A	1	10/28/20	10:37	10/28/20	10:43	5325	0055	-29	-12	-12	20-2741
6492 - SVE-1d	1	10/28/20	10:49	10/28/20	10:57	2218	0067	-26	-25	-25	20-2741
No sample A14112											

Comments: SHORT LIST: PCE, TCE, DCE, EDGE

Relinquished by: <u>[Signature]</u>	Date: <u>10/20/20</u>	Time: <u>9:14</u>	Received by: <u>[Signature]</u>	Date: <u>10/20/20</u>	Time: <u>10:40</u>
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EnvisionAir
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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,

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

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC



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Client Name: ENVIROFORENSICS
Project ID: BADGER CLEANERS
Client Project Manager: ROB HOVERMAN
EnvisionAir Project Number: 2020-626

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



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

Sample Collection START Date/Time: 11/23/20 10:45
Sample Collection END Date/Time: 11/23/20 10:50
Sample Received Date/Time: 11/25/20 13:55

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<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 (surrogate)	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
EnvisionAir Sample Number: 20-2866
Sample Matrix: AIR

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

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<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 (surrogate)	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

EnvisionAir Sample Number: 20-2867

Sample Received Date/Time: 11/25/20 13:55

Sample Matrix: AIR

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	1,630	128	1
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	102%		
Analysis Date/Time:	11-27-20/23:08		
Analyst Initials	tjg		

TO-15 Quality Control Data

EnvisionAir Batch Number: 112720AIR

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

<u>LCS/LCSD</u>	<u>LCS Results (ppbv)</u>	<u>LCSD Results (ppbv)</u>	<u>LCS/D Conc(ppbv)</u>	<u>LCS Rec.</u>	<u>LCSD Rec.</u>	<u>RPD</u>	<u>Flag</u>
Vinyl Chloride	9.27	9.34	10	93%	93%	0.8%	
trans-1,2-Dichloroethene	10.4	10.5	10	104%	105%	1.0%	
cis-1,2-Dichloroethene	9.79	10.1	10	98%	101%	3.1%	
Trichloroethene	9.56	9.68	10	96%	97%	1.2%	
Tetrachloroethene	9.03	8.76	10	90%	88%	3.0%	
4-bromofluorobenzene (surrogate)	106%	97%					
Analysis Date/Time:	11-27-20/12:38	11-27-20/13:14					
Analyst Initials	tjg	tjg					



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Flag Number

Comments

- | | |
|---|---|
| 1 | Reported value is from a 40x dilution. TJG 12/1/20 |
| 2 | Reported value is from a 200x dilution. TJG 12/1/20 |



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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,

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

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC



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Client Name: ENVIROFORENSICS
Project ID: 6492
Client Project Manager: ROB HOVERMAN
EnvisionAir Project Number: 2020-674

Sample Summary

Canister Pressure / Vacuum

<u>Laboratory Sample Number:</u>	<u>Sample Description:</u>	<u>Matrix:</u>	<u>START</u>	<u>START</u>	<u>End Date</u>	<u>End Time</u>	<u>Date</u>	<u>Time</u>	<u>Canister Pressure / Vacuum</u>		<u>Lab</u>
			<u>Collected:</u>	<u>Collected:</u>					<u>Initial Field</u>	<u>Final Field</u>	
			<u>Date</u>	<u>Time</u>					<u>(in. Hg)</u>	<u>(in. Hg)</u>	<u>Received</u>
20-3074	6492-SVE-EX	A	12/17/20		12/17/20		12/21/20	10:00	-30	-4	-4
20-3075	6492-SVE-1S	A	12/17/20		12/17/20		12/21/20	10:00	-28	-9	-9
20-3076	6492-SVE-1D	A	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

EnvisionAir Sample Number: 20-3074
Sample Matrix: AIR

Sample Collection START Date/Time: 12/17/20
Sample Collection END Date/Time: 12/17/20
Sample Received Date/Time: 12/22/20 10:00

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<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 (surrogate)	98%		
Analysis Date/Time:	12-25-20/00:18		
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-1S

Sample Collection START Date/Time: 12/17/20
Sample Collection END Date/Time: 12/17/20
Sample Received Date/Time: 12/22/20 10:00

EnvisionAir Sample Number: 20-3075
Sample Matrix: AIR

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<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 (surrogate)	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>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<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 (surrogate)	104%		
Analysis Date/Time:	12-25-20/03:00		
Analyst Initials	tjg		

TO-15 Quality Control Data

EnvisionAir Batch Number: 122420AIR

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

<u>LCS/LCSD</u>	<u>LCS Results (ppbv)</u>	<u>LCSD Results (ppbv)</u>	<u>LCS/D Conc(ppbv)</u>	<u>LCS Rec.</u>	<u>LCSD Rec.</u>	<u>RPD</u>	<u>Flag</u>
Vinyl Chloride	9.44	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					



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Flag Number

Comments



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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,

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

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC



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Client Name: ENVIROFORENSICS
Project ID: 6492 - BADGER CLEANERS
Client Project Manager: ROB HOVERMAN
EnvisionAir Project Number: 2021-14

Sample Summary

Canister Pressure / Vacuum

<u>Laboratory Sample Number:</u>	<u>Sample Description:</u>	<u>Matrix:</u>	<u>START</u>	<u>START</u>	<u>End Date</u>	<u>End Time</u>	<u>Date</u>	<u>Time</u>	<u>Canister Pressure / Vacuum</u>		<u>Lab</u>
			<u>Date</u>	<u>Time</u>					<u>Initial Field</u>	<u>Final Field</u>	
			<u>Collected:</u>	<u>Collected:</u>	<u>Collected:</u>	<u>Collected:</u>	<u>Received:</u>	<u>Received:</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>
21-50	6492-SVE-EX	A	1/14/21	10:14	1/14/21	10:16	1/15/21	15:30	-27	-3	-3
21-51	6492-SVE-1S	A	1/14/21	10:21	1/14/21	10:32	1/15/21	15:30	-29	-4	-4
21-52	6492-SVE-1D	A	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
EnvisionAir Sample Number: 21-50
Sample Matrix: AIR

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

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	568	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		
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-1S
EnvisionAir Sample Number: 21-51
Sample Matrix: AIR

Sample Collection START Date/Time: 1/14/21 10:21
Sample Collection END Date/Time: 1/14/21 10:32
Sample Received Date/Time: 1/15/21 15:30

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 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 (surrogate)	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
EnvisionAir Sample Number: 21-52 **Sample Collection END Date/Time:** 1/14/21 10:50
Sample Matrix: AIR **Sample Received Date/Time:** 1/15/21 15:30

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 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 (surrogate)	100%		
Analysis Date/Time:	1-19-21/08:17		
Analyst Initials	tjg		



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Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number: 011821AIR

<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)	104%		
Analysis Date/Time:	1-18-21/11:01		
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	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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APPENDIX B

Mass Removal Graphs

Chart 1
SVE Effluent VOC Concentration Trend
Badger Cleaners -616 Oak St, Baraboo, Wisconsin

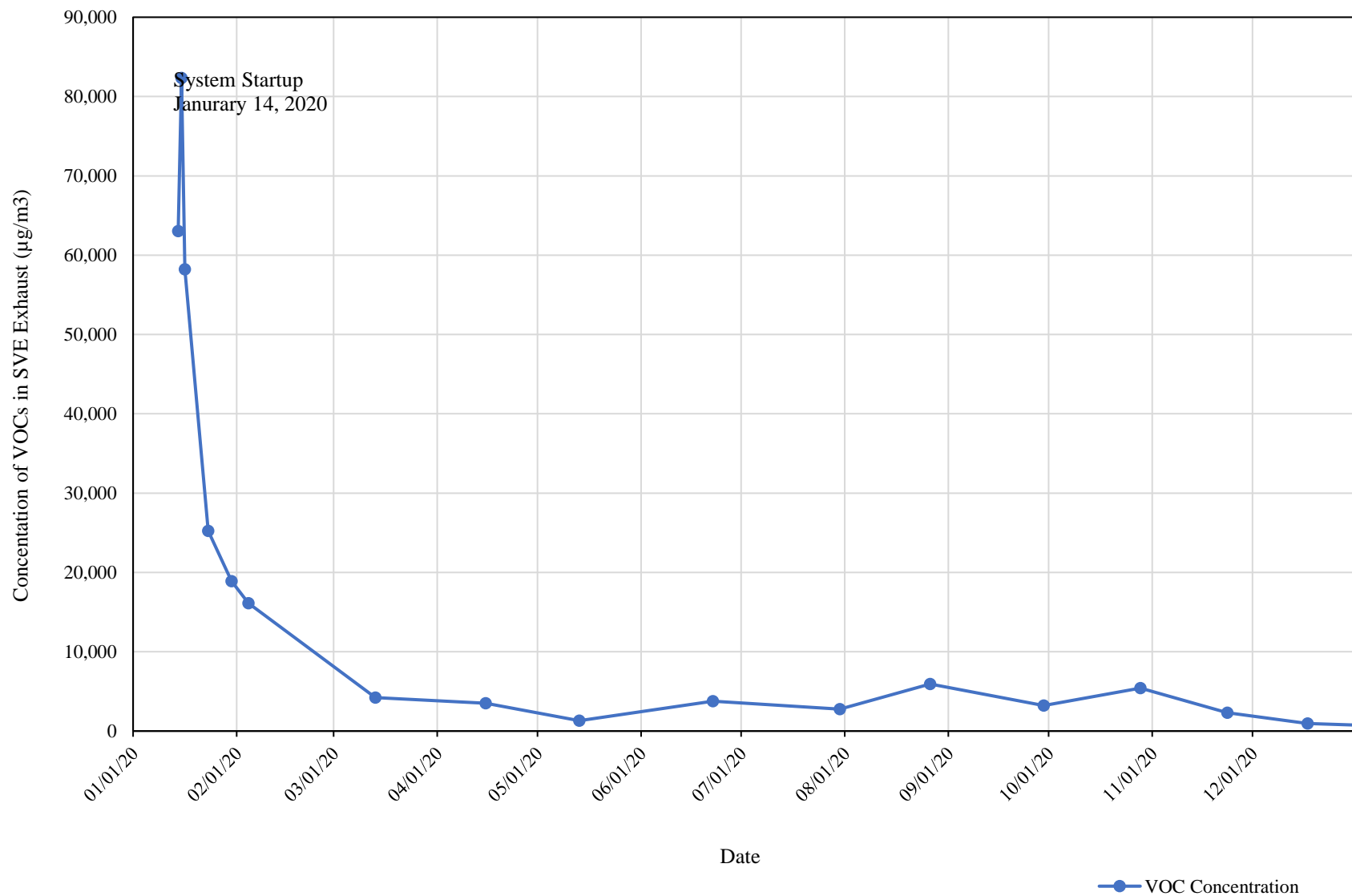


Chart 2
Cumulative VOC Mass Removed
Badger Cleaners -616 Oak St, Baraboo, Wisconsin

