



April 7, 2023

Jane Pfeiffer
Wisconsin Department of Natural Resources
2300 North Dr. Martin Luther King, Jr Drive
Milwaukee, WI 53212

**Re: Vapor Mitigation System Decommissioning Report – 7513 41st Avenue
Martino’s Master Dry Cleaners
BRRTS# 02-30-552188**

Dear Ms. Pfeiffer,

In accordance with Appendix F of Wisconsin Department of Natural Resources (WDNR) publication RR-800, and to decommission the sub-slab depressurization system (SSDS), EnviroForensics is submitting this Decommissioning Report (Report) for the SSDS installed at 7513 41ST Avenue in Kenosha, Wisconsin (the Site).

Following the completion of remedial activities at the Site, the vapor intrusion pathway was re-assessed in anticipation of a case closure request. The assessment was conducted to determine whether remediation addressed the source of vapors identified during the Site investigation. If so, case closure could be completed without the need for vapor mitigation as a continuing obligation.

Decommissioning Activities

The SSDS fan was shut down on November 30, 2021. Three (3) sub-slab vapor sampling events were performed on March 1, 2022, June 27, 2022 and December 15, 2022, respectively. Four (4) sub-slab vapor samples were collected during each sampling event from temporary Vapor Pin[®] sampling ports installed in the floor. The sampling port locations are shown on **Figure 1**.

The samples were designated 6190-SSV-1 and 6190-SSV-4, respectively. The samples were collected in 1-liter vacuum canisters fitted with regulators to restrict flow to a rate of approximately 200 mL per minute. The water dam procedure and pressure testing of the sample train were conducted prior to collection of each sample for quality assurance purposes.

Results

The sub-slab vapor sample results associated with decommissioning are summarized in **Table 1** (attached). Tetrachloroethene (PCE) was detected in each sample at concentrations below the vapor risk screening level (VRSL) for small commercial buildings of 5,800 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). Trichloroethene (TCE) was detected in one (1) of the twelve (12) samples at a concentration below the VRSL. No other contaminants of concern were detected in the vapor samples.

Conclusions

The concentrations of the contaminants of concern in sub-slab vapor were below VRSLs for three (3) consecutive sampling events. These data demonstrate that the remedial actions implemented at the Site have reduced the risk of exposure via the vapor intrusion pathway at the adjoining 7513 41st Avenue building. Active vapor mitigation is no longer needed.

Upon approval of the case closure request, EnviroForensics will remove the SSDS system components as part of Site restoration activities.

If you need any additional information, please don't hesitate to contact me at blewis@enviroforensics.com.

Regards,
EnviroForensics, LLC

A handwritten signature in blue ink that reads "Wayne P. Fassbender".

Wayne Fassbender, PG
Senior Project Manager

A handwritten signature in blue ink that reads "Brad K. Lewis".

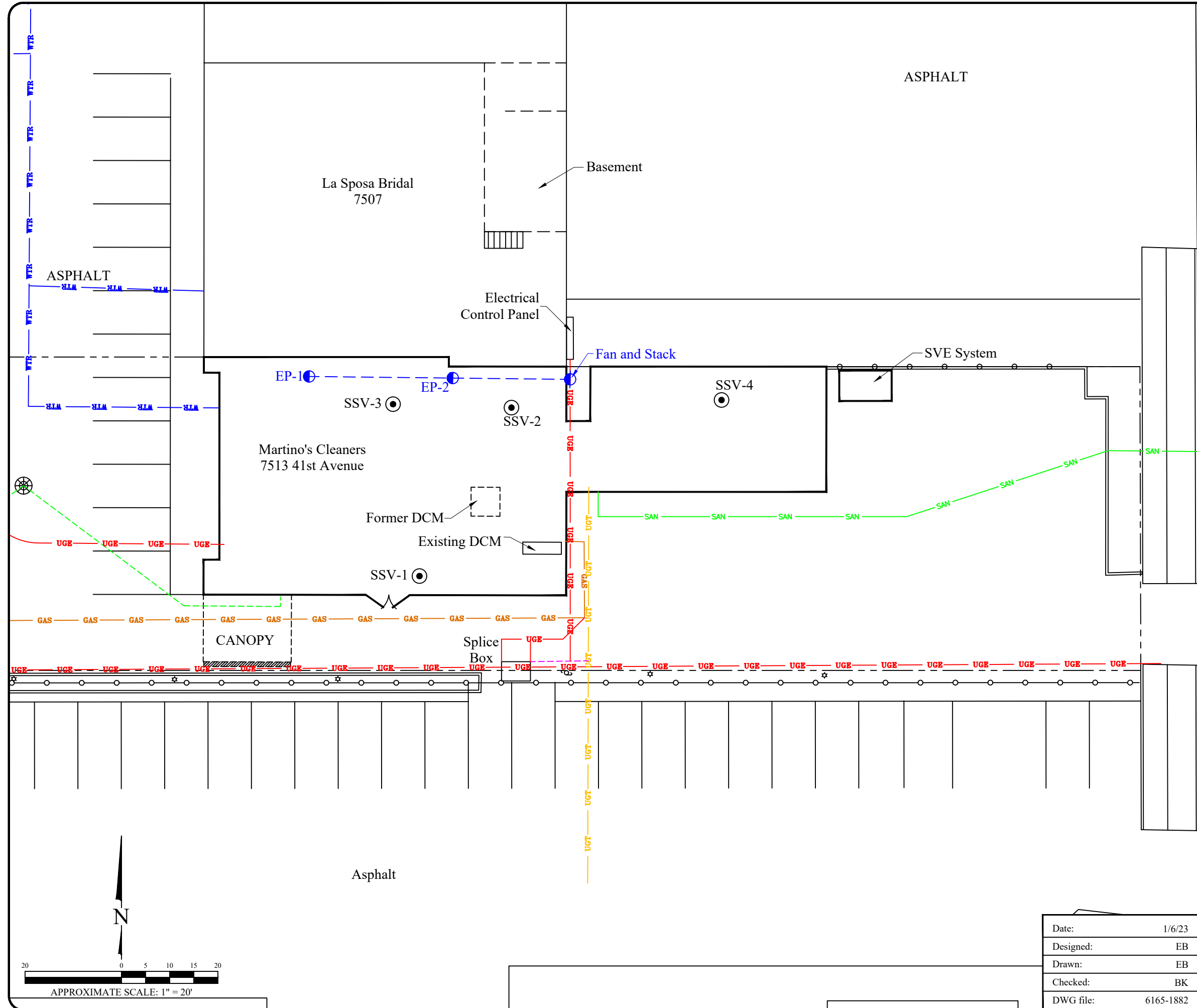
Brad K. Lewis
Senior Project Manager

Attachments:

Figure 1 – Sub-Slab Vapor and Indoor Air Sample Locations

Table 1 – Summary of Post-SSDS Sub-Slab Vapor Sample Analytical Results

Attachment A: Laboratory Analytical Reports

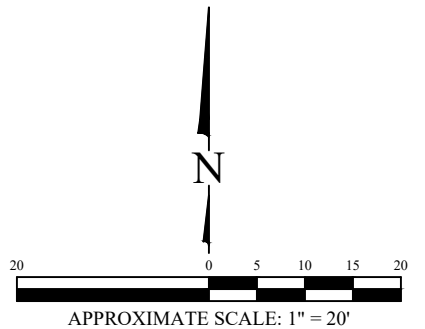


Legend

- Property boundary
- Fence line
- GAS — Underground gas utility line
- WTR — Underground water utility line
- SAN — Underground sanitary utility line
- - - - - Underground storm utility line
- OVHD — Over head electrical utility line
- UGE — Underground electrical utility line
- UGT — Underground cable television utility line
- SSV-1 ● Sub-slab vapor sample location
- EP-1 ● Extraction point location

SUB-SLAB DEPRESSURIZATION SYSTEM LAYOUT

Martino's Cleaners
7513 41st Avenue
Kenosha, WI



Date:	1/6/23
Designed:	EB
Drawn:	EB
Checked:	BK
DWG file:	6165-1882



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

Figure	1
Project	6165

TABLE 1
SUMMARY OF POST-SSDS SUB-SLAB VAPOR ANALYTICAL RESULTS - SITE BUILDING

Martino's Master Drycleaners
 7513 41st Avenue, Kenosha, Wisconsin

Sample Identification	Date Sampled	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene
6165-SSV-1	3/1/2022	54.3	<10.7	<198	<396
	6/27/2022	1,170	27.9	<198	<396
	12/15/2022	167	<10.7	<198	<396
6165-SSV-2	3/1/2022	413	<10.7	<198	<396
	6/27/2022	1,340	<10.7	<198	<396
	12/15/2022	547	<10.7	<198	<396
6165-SSV-3	3/1/2022	214	<10.7	<198	<396
	6/27/2022	636	<10.7	<198	<396
	12/15/2022	256	<10.7	<198	<396
6165-SSV-4	3/1/2022	168	<10.7	<198	<396
	6/27/2022	464	<10.7	<198	<396
	12/15/2022	52.9	<10.7	<198	<396
Vapor Risk Screening Level¹		5,800	290	NE	5,800

Notes:

¹ The Vapor Risk Screening Levels are based on U.S. E.P.A.'s Regional Screening Levels (RSL's) for industrial indoor air with an attenuation factor of 0.03 for sub-slab samples a 0.1 adjustment for 1 x 10⁻⁵ lifetime cancer risk for carcinogens. All concentrations reported in units of micrograms per cubic meter (µg/m³)

Bolded values are above detection limits

Bolded and Orange Shaded values exceed the Vapor Risk Screening Level

NE = Not Established

NA = Not Analyzed



ATTACHMENT A
LABORATORY ANALYTICAL REPORTS



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

Mr. Brian Kappen
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

March 14, 2022

EnvisionAir Project Number: 2022-175
Client Project Name: 6165 – Martino's 41st

Dear Mr. Kappen,

Please find the attached analytical report for the samples received March 4, 2022. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

A handwritten signature in black ink that reads "David Norris".

David Norris
Project Manager
EnvisionAir, LLC



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: 6165 - MARTINO'S 41ST
Client Project Manager: BRIAN KAPPEN
EnvisionAir Project Number: 2022-175

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>
22-908	6165-SSV-1	A	3/1/22	16:23	3/1/22	16:29	3/4/22	12:15	-28	-3	-3
22-909	6165-SSV-2	A	3/1/22	16:46	3/1/22	16:52	3/4/22	12:15	-27	-3	-3
22-910	6165-SSV-3	A	3/1/22	17:09	3/1/22	17:13	3/4/22	12:15	-28	-3	-3
22-911	6165-SSV-4	A	3/1/22	17:28	3/1/22	17:32	3/4/22	12:15	-27	-3	-3



EnvisionAir
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Client Name: ENVIROFORENSICS
Project ID: 6165 - MARTINO'S 41ST
Client Project Manager: BRIAN KAPPEN
EnvisionAir Project Number: 2022-175

Analytical Method: TO-15
Analytical Batch: 030722AIR

Client Sample ID: 6165-SSV-1
EnvisionAir Sample Number: 22-908
Sample Matrix: AIR

Sample Collection START Date/Time: 3/1/22 16:23
Sample Collection END Date/Time: 3/1/22 16:29
Sample Received Date/Time: 3/4/22 12:15

<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	54.3	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	104%		
Analysis Date/Time:	3-8-22/00:28		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6165 - MARTINO'S 41ST
Client Project Manager: BRIAN KAPPEN
EnvisionAir Project Number: 2022-175

Analytical Method: TO-15
Analytical Batch: 030722AIR

Client Sample ID: 6165-SSV-2
EnvisionAir Sample Number: 22-909
Sample Matrix: AIR

Sample Collection START Date/Time: 3/1/22 16:46
Sample Collection END Date/Time: 3/1/22 16:52
Sample Received Date/Time: 3/4/22 12:15

<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	413	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:	3-8-22/01:57		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6165 - MARTINO'S 41ST
Client Project Manager: BRIAN KAPPEN
EnvisionAir Project Number: 2022-175

Analytical Method: TO-15
Analytical Batch: 030722AIR

Client Sample ID: 6165-SSV-3
EnvisionAir Sample Number: 22-910
Sample Matrix: AIR

Sample Collection START Date/Time: 3/1/22 17:09
Sample Collection END Date/Time: 3/1/22 17:13
Sample Received Date/Time: 3/4/22 12:15

<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	214	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	101%		
Analysis Date/Time:	3-8-22/02:37		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6165 - MARTINO'S 41ST
Client Project Manager: BRIAN KAPPEN
EnvisionAir Project Number: 2022-175

Analytical Method: TO-15
Analytical Batch: 030722AIR

Client Sample ID: 6165-SSV-4
EnvisionAir Sample Number: 22-911
Sample Matrix: AIR

Sample Collection START Date/Time: 3/1/22 17:28
Sample Collection END Date/Time: 3/1/22 17:32
Sample Received Date/Time: 3/4/22 12:15

<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	168	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	106%		
Analysis Date/Time:	3-8-22/03:18		
Analyst Initials	tjg		

TO-15 Quality Control Data

EnvisionAir Batch Number: 030722AIR

<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)	101%		
Analysis Date/Time:	3-7-22/16:54		
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	10.1	9.87	10	101%	99%	2.3%	
trans-1,2-Dichloroethene	10.1	9.71	10	101%	97%	3.9%	
cis-1,2-Dichloroethene	10.1	10.4	10	101%	104%	2.9%	
Trichloroethene	10.7	10.4	10	107%	104%	2.8%	
Tetrachloroethene	9.79	9.34	10	98%	93%	4.7%	
4-bromofluorobenzene (surrogate)	89%	100%					
Analysis Date/Time:	3-7-22/15:24	3-7-22/16:19					
Analyst Initials	tjg	tjg					



EnvisionAir
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Flag Number

Comments

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>2022-0079</u>
Report <u>bkappene</u> Address: <u>enviroforensics.com</u>	Project Name or Number: <u>6165</u> <u>Martino's 41st</u>
Report To: <u>Brian Kappen</u>	Sampled by: <u>B Kappen</u>
Phone: <u>262-290-4001</u>	QA/QC Required: (circle if applicable) Level III Level IV
Invoice Address: <u>accounts payable</u> <u>enviroforensics.com</u>	Reporting Units needed: (circle) <u>ug/m³</u> mg/m ³ PPBV PPMV
Desired TAT: (Please Circle One) 1 day 2 days 3 days <u>Std (5 bus. days)</u>	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

Canister Pressure / Vacuum

Air Sample ID	Media Type <small>(see code above)</small>	Coll. Date <small>(Grab/Comp Start)</small>	Coll. Time <small>(Grab/Comp Start)</small>	Coll. Date <small>(Comp. End)</small>	Coll. Time <small>(Comp. End)</small>					Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
6165-SSV-1	1LC	3-1-22	1623	3-1-22	1629			X		20916	0144	-28	-3	-3	22-908
6165-SSV-2	↓	↓	1646	↓	1652			↓		2541	NA	-27	-3	-3	22-909
6165-SSV-3	↓	↓	1709 1713	↓	1713			↓		83839	0093	-28	-3	-3	22-910
6165-SSV-4	↓	↓	1718 1732	↓	1732			↓		83835	0065	-27	-3	-3	22-911

Comments: Short List: PCE, TCE, CDCE, TDCE, VC

Relinquished by:	Date	Time	Received by:	Date	Time
<u>TTL</u>	<u>3-2-22</u>	<u>1600</u>	<u>FedEx</u>	<u>3-2-22</u>	<u>1600</u>
			<u>W. Coulton</u>	<u>3-4-22</u>	<u>12:15</u>



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Mr. Brian Kappen
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

July 20, 2022

EnvisionAir Project Number: 2022-376
Client Project Name: 6165 – Martino's 41st Ave.

Dear Mr. Kappen,

Please find the attached analytical report for the samples received July 1, 2022. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

A handwritten signature in black ink that reads "David Norris". The signature is written in a cursive, flowing style.

David Norris
Project Manager
EnvisionAir, LLC



EnvisionAir
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 Indianapolis, IN 46239
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 Fax: 317-351-0882
 www.envision-air.com

Client Name: ENVIROFORENSICS
Project ID: 6165 - MARTINO'S 41ST AVE.
Client Project Manager: BRIAN KAPPEN
EnvisionAir Project Number: 2022-376

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>							<u>Collected:</u>
22-1928	6165-SSV-1	A	6/27/22	15:10	6/27/22	15:15	7/1/22	13:00	-28	-3	-3
22-1929	6165-SSV-2	A	6/27/22	14:05	6/27/22	14:10	7/1/22	13:00	-27	-3	-3
22-1930	6165-SSV-3	A	6/27/22	14:33	6/27/22	14:37	7/1/22	13:00	-30	-4	-4
22-1931	6165-SSV-4	A	6/27/22	13:31	6/27/22	13:38	7/1/22	13:00	-29	-3	-3



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Client Name: ENVIROFORENSICS
Project ID: 6165 - MARTINO'S 41ST AVE.
Client Project Manager: BRIAN KAPPEN
EnvisionAir Project Number: 2022-376

Analytical Method: TO-15
Analytical Batch: 070522AIR

Client Sample ID: 6165-SSV-1
EnvisionAir Sample Number: 22-1928
Sample Matrix: AIR

Sample Collection START Date/Time: 6/27/22 15:10
Sample Collection END Date/Time: 6/27/22 15:15
Sample Received Date/Time: 7/1/22 13:00

<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	1,170	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	27.9	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	93%		
Analysis Date/Time:	7-5-22/22:12		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6165 - MARTINO'S 41ST AVE.
Client Project Manager: BRIAN KAPPEN
EnvisionAir Project Number: 2022-376

Analytical Method: TO-15
Analytical Batch: 070522AIR

Client Sample ID: 6165-SSV-2
EnvisionAir Sample Number: 22-1929
Sample Matrix: AIR

Sample Collection START Date/Time: 6/27/22 14:05
Sample Collection END Date/Time: 6/27/22 14:10
Sample Received Date/Time: 7/1/22 13:00

<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	1,340	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	91%		
Analysis Date/Time:	7-5-22/22:50		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6165 - MARTINO'S 41ST AVE.
Client Project Manager: BRIAN KAPPEN
EnvisionAir Project Number: 2022-376

Analytical Method: TO-15
Analytical Batch: 070522AIR

Client Sample ID: 6165-SSV-3
EnvisionAir Sample Number: 22-1930
Sample Matrix: AIR

Sample Collection START Date/Time: 6/27/22 14:33
Sample Collection END Date/Time: 6/27/22 14:37
Sample Received Date/Time: 7/1/22 13:00

<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	636	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	108%		
Analysis Date/Time:	7-5-22/23:28		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6165 - MARTINO'S 41ST AVE.
Client Project Manager: BRIAN KAPPEN
EnvisionAir Project Number: 2022-376

Analytical Method: TO-15
Analytical Batch: 070522AIR

Client Sample ID: 6165-SSV-4
EnvisionAir Sample Number: 22-1931
Sample Matrix: AIR

Sample Collection START Date/Time: 6/27/22 13:31
Sample Collection END Date/Time: 6/27/22 13:38
Sample Received Date/Time: 7/1/22 13:00

<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	464	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:	7-6-22/00:44		
Analyst Initials	tjg		

TO-15 Quality Control Data

EnvisionAir Batch Number: 070522AIR

<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)	101%		
Analysis Date/Time:	7-5-22/17:03		
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	9.66	9.95	10	97%	100%	3.0%	
trans-1,2-Dichloroethene	10.3	10.4	10	103%	104%	1.0%	
cis-1,2-Dichloroethene	9.83	9.52	10	98%	95%	3.2%	
Trichloroethene	10.5	9.71	10	105%	97%	7.8%	
Tetrachloroethene	10.2	9.52	10	102%	95%	6.9%	
4-bromofluorobenzene (surrogate)	94%	109%					
Analysis Date/Time:	7-5-22/14:59	7-5-22/15:41					
Analyst Initials	tjg	tjg					



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Flag Number

Comments

CHAIN OF CUSTODY RECORD

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Client: <u>EnviroForensics</u>	P.O. Number: <u>2022-0340</u>
Report <u>bkappen@</u> Address: <u>enviroforensics.com</u>	Project Name or Number: <u>6165</u> <u>Martino's 41st Ave</u>
Report To: <u>Brian Kappen</u>	Sampled by: <u>B. Kappen</u>
Phone: <u>262-290-4001</u>	QA/QC Required: (circle if applicable) Level III Level IV
Invoice Address: <u>accounts payable</u> <u>enviroforensics.com</u>	Reporting Units needed: (circle) <u>ug/m³</u> mg/m ³ PPBV PPMV
Desired TAT: (Please Circle One) 1 day 2 days 3 days <u>Std (5 bus. days)</u>	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:

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Canister Pressure / Vacuum

Air Sample ID	Media Type <small>(see code above)</small>	Coll. Date <small>(Grab/Comp Start)</small>	Coll. Time <small>(Grab/Comp Start)</small>	Coll. Date <small>(Comp. End)</small>	Coll. Time <small>(Comp. End)</small>		Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
6165-SSV-1	1LC	6/27/22	1510	6/27/22	1515	X	83922	0075	-28	-3	-3	22-1928
6165-SSV-2	↓	↓	1405	↓	1410	↓	83918	0138	-27	-3	-3	22-1929
6165-SSV-3	↓	↓	1433	↓	1437	↓	83985	0114	-30	-4	-4	22-1930
6165-SSV-4	↓	↓	1331	↓	1338	↓	84136	0131	-29	-3	-3	22-1931

Comments:
Short List: PCE, TCE, CDCE, EDCE, VC

Relinquished by:	Date	Time	Received by:	Date	Time
<u>[Signature]</u>	6/30/22	1700	<u>GANEX</u>	6/30/22	1700
			<u>[Signature]</u>	7/1/22	1300



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Mr. Brian Kappen
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

December 30, 2022

EnvisionAir Project Number: 2022-697
Client Project Name: 6165

Dear Mr. Kappen,

Please find the attached analytical report for the samples received December 16, 2022. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

A handwritten signature in black ink that reads "David Norris". The signature is written in a cursive, flowing style.

David Norris
Project Manager
EnvisionAir, LLC



EnvisionAir
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Client Name: ENVIROFORENSICS
Project ID: 6165
Client Project Manager: BRIAN KAPPEN
EnvisionAir Project Number: 2022-697

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>
22-3505	6165-SSV-1	A	12/15/22	13:18	12/15/22	13:23	12/16/22	11:00	-27	-4	-4
22-3506	6165-SSV-2	A	12/15/22	12:28	12/15/22	12:34	12/16/22	11:00	-30	-4	-4
22-3507	6165-SSV-3	A	12/15/22	12:48	12/15/22	12:52	12/16/22	11:00	-27	-4	-4
22-3508	6165-SSV-4	A	12/15/22	13:47	12/15/22	14:00	12/16/22	11:00	-30	-4	-4



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Client Name: ENVIROFORENSICS

Project ID: 6165

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2022-697

Analytical Method: TO-15
Analytical Batch: 122122AIR

Client Sample ID: 6165-SSV-1

Sample Collection START Date/Time: 12/15/22 13:18
Sample Collection END Date/Time: 12/15/22 13:23
Sample Received Date/Time: 12/16/22 11:00

EnvisionAir Sample Number: 22-3505
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	167	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	106%		
Analysis Date/Time:	12-23-22/09:24		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS

Project ID: 6165

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2022-697

Analytical Method: TO-15
Analytical Batch: 122122AIR

Client Sample ID: 6165-SSV-2

EnvisionAir Sample Number: 22-3506
Sample Matrix: AIR

Sample Collection START Date/Time: 12/15/22 12:28
Sample Collection END Date/Time: 12/15/22 12:34
Sample Received Date/Time: 12/16/22 11:00

<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	547	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:	12-23-22/10:00		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS

Project ID: 6165

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2022-697

Analytical Method: TO-15
Analytical Batch: 122122AIR

Client Sample ID: 6165-SSV-3

EnvisionAir Sample Number: 22-3507
Sample Matrix: AIR

Sample Collection START Date/Time: 12/15/22 12:48
Sample Collection END Date/Time: 12/15/22 12:52
Sample Received Date/Time: 12/16/22 11:00

<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	256	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	101%		
Analysis Date/Time:	12-23-22/10:36		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS

Project ID: 6165

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2022-697

Analytical Method: TO-15
Analytical Batch: 122122AIR

Client Sample ID: 6165-SSV-4

EnvisionAir Sample Number: 22-3508
Sample Matrix: AIR

Sample Collection START Date/Time: 12/15/22 13:47
Sample Collection END Date/Time: 12/15/22 14:00
Sample Received Date/Time: 12/16/22 11:00

<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	52.9	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	105%		
Analysis Date/Time:	12-23-22/11:11		
Analyst Initials	tjg		

TO-15 Quality Control Data

EnvisionAir Batch Number: 122122AIR

<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)	97%		
Analysis Date/Time:	12-22-22/17:53		
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	9.48	9.39	10	95%	94%	1.0%	
trans-1,2-Dichloroethene	9.04	9.95	10	90%	100%	9.6%	
cis-1,2-Dichloroethene	9.99	10.3	10	100%	103%	3.1%	
Trichloroethene	10.5	10.5	10	105%	105%	0.0%	
Tetrachloroethene	10.4	10.2	10	104%	102%	1.9%	
4-bromofluorobenzene (surrogate)	96%	102%					
Analysis Date/Time:	12-22-22/16:01	12-22-22/16:40					
Analyst Initials	tjg	tjg					



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Flag Number

Comments

CHAIN OF CUSTODY RECORD

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Client: <u>Enviro Forensics LLC</u>	P.O. Number:
Report Address: <u>Bkappene@enviroforensics.com</u>	Project Name or Number: <u>6165</u>
Report To: <u>B. Kappen</u>	Sampled by: <u>B. Kappen</u>
Phone: <u>414-326-4412</u>	QA/QC Required: (circle if applicable) Level III Level IV
Invoice Address: <u>accounts payable @enviroforensics.com</u>	Reporting Units needed: (circle) <u>ug/m³</u> mg/m ³ PPBV PPMV
Desired TAT: (Please Circle One) 1 day 2 days 3 days <u>Std (5 bus. days)</u>	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:

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Canister Pressure / Vacuum

Air Sample ID	Media Type <small>(see code above)</small>	Coll. Date <small>(Grab/Comp Start)</small>	Coll. Time <small>(Grab/Comp Start)</small>	Coll. Date <small>(Comp. End)</small>	Coll. Time <small>(Comp. End)</small>				Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
6165-SSV-1	1LC	12/15/22	1318	1323			X		83978	NA	-27	-4	-4	22-3505
6165-SSV-2	1LC		1228	1234			X		2233	0083	-30	-4	-4	22-3506
6165-SSV-3	1LC		1248	1252			X		2540	0090	-27	-4	-4	22-3507
6165-SSV-4	1LC		1347	1400			X		14415	0061	-30	-4	-4	22-3508

Comments: PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, Vinyl Chloride

Relinquished by:	Date	Time	Received by:	Date	Time
<u>AKL</u>	12-15-22	1630	<u>Fedex</u>	12-15-22	1630
			<u>Y. Naulet</u>	12-16-22	11:00