

November 27, 2023
File No. 25221094.00

Don and Cynthia Hertrampf
127 South Dousman Street
Prairie du Chien, WI 53821

Subject: Indoor Air Sample Results – Contaminants Not Detected
Vapor Mitigation System Commissioning Round 1 of 3
127 South Dousman Street, Prairie du Chien, Wisconsin
Former Blackhawk Drycleaners, BRRTS # 02-12-552357

Dear Mr. and Mrs. Hertrampf:

On behalf of the Prairie du Chien Redevelopment Authority (RDA), SCS Engineers (SCS) is providing results for an indoor air sample collected from the basement of your home in November 2023. The sample was collected to assess the effectiveness of the vapor mitigation system (VMS), which was installed in July 2023. Contaminants were not detected in the indoor air sample. SCS observed that the VMS was in good condition and operating properly.

The indoor air sample was submitted to Pace Analytical for laboratory analysis of volatile organic compounds associated with drycleaner solvent contamination, including tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, and vinyl chloride. The laboratory report is included in **Attachment A**. No contaminants were detected in the sample.

We plan to contact you to coordinate two additional commissioning events to further evaluate the effectiveness of the VMS. It is anticipated that the remaining two events will be performed in approximately February and May 2024.

Please feel free to contact Robert Langdon of SCS at (608) 212-3995 or Matt Vitale of Wisconsin Department of Natural Resources at (715) 492-1222 if you have any questions concerning the testing.

Sincerely,



Robert Langdon
Senior Project Manager
SCS Engineers



Mark R. Huber, PE
Project Director
SCS Engineers

REL/AJR/MRH

cc: Matt Vitale, Wisconsin Department of Natural Resources
Chad Abram, City of Prairie du Chien Redevelopment Authority

Enclosures: Attachment A – Laboratory Report

I:\25221094.00\Correspondence\Other\127 S. Dousman Results\VMS Commissioning\231127_127 S. Dousman Sample Results.docx



Attachment A
Laboratory Report

SCS Engineers - Madison, WI

Sample Delivery Group: L1674621
Samples Received: 11/07/2023
Project Number: 25221094.00
Description: Blackhawk Junction

Report To: Robert Langdon
2830 Dairy Drive
Madison, WI 53718-6751












Entire Report Reviewed By:



Jennifer A McCurdy
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

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SAMPLE SUMMARY

127 SOUTH DOUSMAN STREET IA L1674621-01 Air

Collected by: Ethan Schoefer
Collected date/time: 11/03/23 09:14
Received date/time: 11/07/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2168798	1	11/10/23 21:41	11/10/23 21:41	DAH	Mt. Juliet, TN

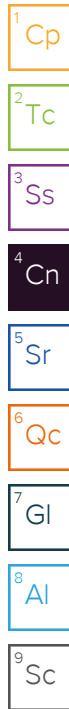
- ¹Cp
- ²Tc
- ³Ss
- ⁴Cn
- ⁵Sr
- ⁶Qc
- ⁷Gl
- ⁸Al
- ⁹Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jennifer A McCurdy
Project Manager



Report Revision History

Level II Report - Version 1: 11/14/23 07:48

Project Narrative

Revise to report only the TO15 dry cleaner short list. 11/14/23 JM

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
cis-1,2-Dichloroethene	156-59-2	96.90	0.261	1.03	ND	ND		1	WG2168798
trans-1,2-Dichloroethene	156-60-5	96.90	0.224	0.888	ND	ND		1	WG2168798
Tetrachloroethylene	127-18-4	166	0.271	1.84	ND	ND		1	WG2168798
Trichloroethylene	79-01-6	131	0.227	1.22	ND	ND		1	WG2168798
Vinyl chloride	75-01-4	62.50	0.316	0.808	ND	ND		1	WG2168798
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		85.9				WG2168798

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R3998561-3 11/10/23 09:46

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
cis-1,2-Dichloroethene	U		0.0784	0.261
trans-1,2-Dichloroethene	U		0.0673	0.224
Tetrachloroethylene	U		0.0814	0.271
Trichloroethylene	U		0.0680	0.227
Vinyl chloride	U		0.0949	0.316
(S) 1,4-Bromofluorobenzene	84.2			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3998561-1 11/10/23 08:47 • (LCSD) R3998561-2 11/10/23 09:18

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
cis-1,2-Dichloroethene	3.75	3.32	3.38	88.5	90.1	70.0-130			1.79	25
trans-1,2-Dichloroethene	3.75	3.25	3.24	86.7	86.4	70.0-130			0.308	25
Tetrachloroethylene	3.75	3.80	3.79	101	101	70.0-130			0.264	25
Trichloroethylene	3.75	3.28	3.25	87.5	86.7	70.0-130			0.919	25
Vinyl chloride	3.75	3.37	3.38	89.9	90.1	70.0-130			0.296	25
(S) 1,4-Bromofluorobenzene				96.5	96.2	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

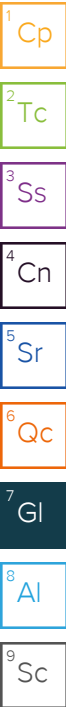
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.





Pace* Location Requested (City/State):

Air CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Company Name:
SCS Engineers - Madison, WIContact/Report To: **Robert Langdon**Street Address:
**2830 Dairy Drive
Madison, WI 53718-6751**Phone #: **608-216-7342**E-Mail: **rlangdon@scsengineers.com**

City, State Zip:

Cc E-Mail:

Customer Project #: **25221094.00**

Invoice to:

Project Name:
Blackhawk Junction

Invoice:

E-Mail:

Site Collection Info/Facility ID (as applicable):

Purchase Order # (if applicable):

SCSENGMWI-25221094

Quote #:

Time Zone Collected: [] AK [] PT [] MT [X] CT [] ET

State origin of sample(s): **WI**

Data Deliverables:

Regulatory Program (CAA, RCRA, etc.) as applicable:

[] Level II [] Level III [] Level IV

Rush (Pre-approval required):

Permit # as applicable:

[] EQUIS

2 Day 3 day 5 day Other _____

[] Other _____

Date Results Requested:

Units for Reporting: ug/m³ PPBV mg/m³ PPMV

* Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I), Soil Vapor (SV), Other (O)

Customer Sample ID	Matrix *	Summa Canister ID	Flow Controller ID	Begin Collection		End Collection		Start Pressure / Vacuum (in Hg)	End Pressure / Vacuum (in Hg)	Duration (minutes)	Flow Rate (m ³ /min or L/min)	Total Volume Sampled (m ³ or L)	TO-15 Summa
				Date	Time	Date	Time						
127 South Dawson Street IA	I	024333	024335	11/2	1024	11/3	914	-27	-4				X
Empty Can - 007921		007921	025927										

Field Information				Analyses Requested			
Canister		PUF / FILTER		TO-15 Summa			
Pressure / Vacuum							
Start Pressure / Vacuum (in Hg)	End Pressure / Vacuum (in Hg)	Duration (minutes)	Flow Rate (m ³ /min or L/min)	Total Volume Sampled (m ³ or L)			

Proj. Manager: 3828 - Jennifer A McCurdy
AcctNum / Client ID: SCSENGMWI
Table #:
Profile / Template: T239517
Prelog / Bottle Ord. ID: P1029686
L1674621
Sample Comment sol
Can was flat, Not used to sample

**D173**

Scan QR code for instructions

Sample Receipt Checklist

CO₂ Seal Present/Intact: N Airs

CO₂ Signed/Accurate: N Size: 1L 5L

Bottles arrive intact: N Tare Color: G W

Correct bottles used: N

Sufficient volume sent: Y N T/P#: _____

PA Screen <0.5 mR/hr: Y N

6727 1903 0565

Customer Remarks / Special Conditions / Possible Hazards:

Collected By:

Printed Name:

Signature:

Ethan Schaefer

Additional Instructions from Pace*:

Relinquished by/Company: (Signature)

TJA

Date/Time:

10/10/23

Received by/Company: (Signature)

Relinquished by/Company: (Signature)

[Signature]

Date/Time:

11/3/23 1200

Received by/Company: (Signature)

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

[Signature]

Coolers:

Thermometer ID:

Correction Factor (°C):

Obs. Temp. (°C):

Corrected Temp. (°C):

Date/Time:

Date/Time:

Date/Time:

Date/Time:

Tracking Number:

Delivered by: In-Person Courier

FedEX UPS Other

11/07/23**0900**

Page: ___ of: ___