

Borski, Jennifer - DNR

From: Krause, Jacob <JKrause@scsengineers.com>
Sent: Tuesday, June 20, 2023 10:52 AM
To: Kent Taylor
Cc: Langdon, Robert; Borski, Jennifer - DNR; Walden, James E -DNR; Hoverman, Robert R - DNR (Rob)
Subject: Sample Results Notification - Sandie's Dry Cleaner, Little Chute, WI, BRRTS #02-45-552222
Attachments: 6993 Beacon Air Samples Analytical Report 06 06 2023 0725.pdf; 6993 Beacon_Results_Table 06 Jun 23 0725.xlsx; Figure 2. Sanitary Sewer Vapor Results - Sandie's.pdf; Table 1. Sanitary Sewer Gas Vapor_ Sandie's.pdf

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To Mr. Kent Taylor, Director of Public Works, Village of Little Chute:

This message serves as notification of laboratory analytical results for vapor samples collected within sanitary manhole structures near the former Sandie's Dry Cleaner site located at 513 Grand Avenue in the Village of Little Chute, Wisconsin. The sampling was completed by SCS Engineers at the request of the Wisconsin Department of Natural Resources (WDNR) through the Vapor Intrusion Zone Contract (VIZC). The laboratory analytical report, Excel file of laboratory data, a site map showing the sampling locations, and an analytical summary table are attached. SCS Engineers compared the analytical results to standards set by WDNR, Sanitary Sewer Gas Screening Levels (SSGSLs), and found that none of the results exceeded SSGSLs. The reported concentrations were less than 10% of the SSGSLs. SCS Engineers will prepare a summary report which will provide further discussion of the results. Once complete, the final report will be listed on the WDNR BRRTS database, which is available to the public.

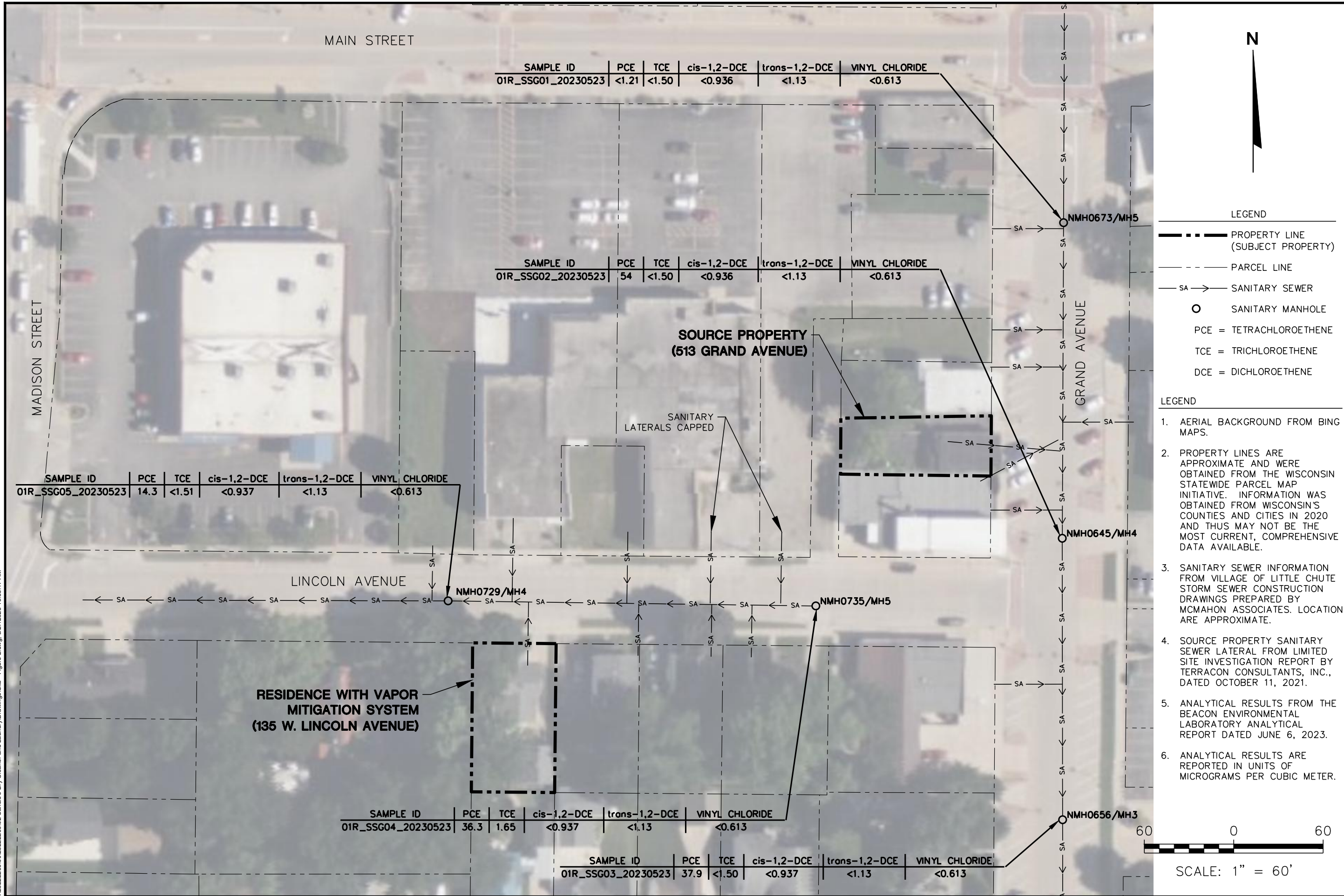
Please contact Ms. Jennifer Borski (Jennifer.Borski@wisconsin.gov or 920-360-0853) at WDNR with any questions regarding the work completed or the sample analytical results.

Thank you,

Jacob Krause, PG*
Project Hydrogeologist
SCS Engineers
2830 Dairy Drive
Madison, WI 53718-6751 USA
608-216-7342 (W)
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I:\2522269_00\2522269.02 Sandie's Dry Cleaner and Laundry\Drawings\Site - Figure 2.dwg, 6/27/2023 10:33:47 AM



SAMPLE ID	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VINYL CHLORIDE
01R_SSG01_20230523	<1.21	<1.50	<0.936	<1.13	<0.613

SAMPLE ID	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VINYL CHLORIDE
01R_SSG02_20230523	54	<1.50	<0.936	<1.13	<0.613

SAMPLE ID	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VINYL CHLORIDE
01R_SSG05_20230523	14.3	<1.51	<0.937	<1.13	<0.613

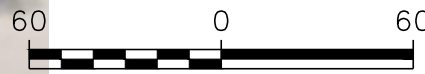
SAMPLE ID	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VINYL CHLORIDE
01R_SSG04_20230523	36.3	1.65	<0.937	<1.13	<0.613

SAMPLE ID	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VINYL CHLORIDE
01R_SSG03_20230523	37.9	<1.50	<0.937	<1.13	<0.613



- LEGEND**
- PROPERTY LINE (SUBJECT PROPERTY)
 - PARCEL LINE
 - SA → SANITARY SEWER
 - SANITARY MANHOLE
 - PCE = TETRACHLOROETHENE
 - TCE = TRICHLOROETHENE
 - DCE = DICHLOROETHENE

- LEGEND**
1. AERIAL BACKGROUND FROM BING MAPS.
 2. PROPERTY LINES ARE APPROXIMATE AND WERE OBTAINED FROM THE WISCONSIN STATEWIDE PARCEL MAP INITIATIVE. INFORMATION WAS OBTAINED FROM WISCONSIN'S COUNTIES AND CITIES IN 2020 AND THUS MAY NOT BE THE MOST CURRENT, COMPREHENSIVE DATA AVAILABLE.
 3. SANITARY SEWER INFORMATION FROM VILLAGE OF LITTLE CHUTE STORM SEWER CONSTRUCTION DRAWINGS PREPARED BY MCMAHON ASSOCIATES. LOCATION ARE APPROXIMATE.
 4. SOURCE PROPERTY SANITARY SEWER LATERAL FROM LIMITED SITE INVESTIGATION REPORT BY TERRACON CONSULTANTS, INC., DATED OCTOBER 11, 2021.
 5. ANALYTICAL RESULTS FROM THE BEACON ENVIRONMENTAL LABORATORY ANALYTICAL REPORT DATED JUNE 6, 2023.
 6. ANALYTICAL RESULTS ARE REPORTED IN UNITS OF MICROGRAMS PER CUBIC METER.



SCALE: 1" = 60'

 2830 DAIRY DRIVE, MADISON, WI 53718-6751 PHONE: (608) 224-2830	ENGINEER	FIGURE	2
	SANDIE'S DRY CLEANER AND LAUNDRY (FORMER) 513 GRAND AVENUE LITTLE CHUTE, WISCONSIN		
WISCONSIN DEPARTMENT OF NATURAL RESOURCES	PROJECT NO. 2522269.02	DRAWN BY: KP	CHECKED BY: JJK
CLIENT	DRAWN:	REVISIONS:	APPROVED BY: 06/19/2023

Table 1. Sanitary Sewer Gas Analytical Results Summary
Sandie's Dry Cleaner & Laundry (Former), 513 Grand Avenue / SCS Engineers Project #25222269.02
 (Results are in $\mu\text{g}/\text{m}^3$)

Sample	Location	Sampler Deployment Date	Sampler Retrieval Date	Lab Notes	Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
01R_SSG01_20230523	NHM0673/MH5	5/9/2023	5/23/2023	--	<1.21	<1.50	<0.936	<1.13	<0.613
01R_SSG02_20230523	NMH0645/MH4	5/9/2023	5/23/2023	--	54	<1.50	<0.936	<1.13	<0.613
01R_SSG03_20230523	NMH0656/MH3	5/9/2023	5/23/2023	--	37.9	<1.50	<0.937	<1.13	<0.613
01R_SSG04_20230523	NMH0735/MH5	5/9/2023	5/23/2023	--	36.3	1.65	<0.937	<1.13	<0.613
01R_SSG05_20230523	NMH0729/MH4	5/9/2023	5/23/2023	(1)	14.3	<1.51	<0.937	<1.13	<0.613
Trip Blank	--	--	--	--	<1.21	<1.50	<0.936	<1.13	<0.613
Sanitary Sewer Gas Screening Level (Residential Buildings)					1,400	70	1,400	1,400	56
Sanitary Sewer Gas Screening Level (Commercial/Industrial Buildings)					5,800	290	5,800	5,800	930

Abbreviations:

$\mu\text{g}/\text{m}^3$ = micrograms per cubic meter
 -- = Not Applicable

cis-1,2-DCE = cis-1,2-dichloroethene
 trans-1,2-DCE = trans-1,2-dichloroethene

Notes:

1. Samples were collected using BEACON Environmental passive samplers and analyzed using the USEPA TO-17 analytical method.
2. Sanitary Sewer Gas Screening Levels (SSGSLs) are Vapor Action Levels (VALs) divided by an attenuation factor (AF) of 0.03 per WDNR's January 2023 Wisconsin Vapor Quick Look-Up Table.
3. **Bold+underlined** values meet or exceed SSGSLs for the appropriate setting (residential or commercial/industrial).

Lab Notes:

(1) 1,4-Dichlorobenzene-d4 = Internal Standard recovery was below laboratory and method acceptance limits, associated results with detections are biased high.

Created by: <u>JJK</u>	Date: <u>6/8/2023</u>
Last revision by: <u>REL</u>	Date: <u>6/16/2023</u>
Checked by: <u>LMH</u>	Date: <u>6/16/2023</u>
Proj Mgr QA/QC: <u>REL</u>	Date: <u>6/16/2023</u>

\\mad-fs01\Data\Projects\25222269.00\25222269.02 Sandie's Dry Cleaner and Laundry\Data and Calculations\Tables\[Sanitary Sewer Gas Vapor_short list VOCs_Sandies.xlsx]Sanitary Sewer Gas



Beacon Environmental

2203A Commerce Road, Suite 1

Forest Hill, MD 21050 USA

1.410.838.8780

CERTIFICATE OF ANALYSIS

Beacon Proposal No.: 230503R02

Laboratory Work Order: 0006993

Project Description:

Sandie's Dry Cleaner and Laundry (Former)

Little Chute, WI

Client PO No.: 25222269.02-001

Prepared for:

Jacob Krause

SCS Engineers

2830 Dairy Drive

Madison, WI 53718-6751

Ryan W. Schneider
Senior Project Manager

June 06, 2023

All data meet requirements as specified in the Beacon Environmental Quality Assurance Project Plan and the results relate only to the samples reported. The work performed was in accordance with ISO/IEC 17025:2017. This report shall not be reproduced, except in full, without written approval of the laboratory. Release of the data contained in this data package has been authorized by the Laboratory Director or his signee, as verified by the following signatures:

Steven C. Thornley
Laboratory Director

Peter B. Kelly
Quality Manager

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SCS Engineers
 2830 Dairy Drive
 Madison, WI 53718-6751

Site Name: Sandie's Dry Cleaner and Laundry (Former)
Site Location: Little Chute, WI
Project Manager: Jacob Krause

Beacon Proposal: 230503R02
Lab Work Order: 0006993
Reported: 06/06/2023

Sample Summary

Lab Sample ID	Client Sample ID	Received	Analysis	Matrix
0006993-01 Sampler Type:	Trip Blank Beacon Passive Sampler	05/25/2023	TO-17 (Passive)	Air
0006993-02 Sampler Type:	01R_SSG01_20230523 Beacon Passive Sampler	05/25/2023	TO-17 (Passive)	Sewer Gas
0006993-03 Sampler Type:	01R_SSG02_20230523 Beacon Passive Sampler	05/25/2023	TO-17 (Passive)	Sewer Gas
0006993-04 Sampler Type:	01R_SSG03_20230523 Beacon Passive Sampler	05/25/2023	TO-17 (Passive)	Sewer Gas
0006993-05 Sampler Type:	01R_SSG04_20230523 Beacon Passive Sampler	05/25/2023	TO-17 (Passive)	Sewer Gas
0006993-06 Sampler Type:	01R_SSG05_20230523 Beacon Passive Sampler	05/25/2023	TO-17 (Passive)	Sewer Gas

Project Completeness

Samples Received: 6
Samples Analyzed: 6

SCS Engineers
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Madison, WI 53718-6751

Site Name: Sandie's Dry Cleaner and Laundry (Former)
Site Location: Little Chute, WI
Project Manager: Jacob Krause

Beacon Proposal: 230503R02
Lab Work Order: 0006993
Reported: 06/06/2023

Case Narrative

Beacon Environmental provided thermally conditioned Beacon Samplers for sampling, with analyses following U.S. EPA Method TO-17, with analytical results reported in $\mu\text{g}/\text{m}^3$. Beacon calculated concentration results using the exposure period, target analyte mass, and the following procedures detailed in ISO 16017-2, *Indoor, ambient and workplace air-Sampling and analysis of volatile organic compounds by sorbent tube/thermal desorption/capillary gas chromatography-Part 2: Diffusive sampling*.

Beacon reports results and reporting limits to three significant digits.

Reporting Limits (RLs)

The RLs represent a baseline above which results meet laboratory-determined limits of precision and accuracy. Beacon performed dilution analysis when results exceeded the upper calibration limit, bringing all reported results within the calibration range. The project method quantitation limit (MQL) is the limit of quantitation (LOQ) as noted in the data tables. The reported data includes LOQ limits.

Calibration Verification

All continuing calibration verification (CCV) values are within $\pm 30\%$ of the true values as defined by the initial calibration and met the requirements specified in BEACON's Quality Manual.

Internal Standards and Surrogates

Internal standards and surrogates are spiked on all blanks (ICB, BLK), field samples and laboratory control samples (ICV/CALV, BS, ICV and CCV). Acceptance criteria for internal standards are 60 to 140 percent and surrogate recoveries are 70 to 130 percent; all internal standards and surrogates are within the acceptance criteria unless noted in the **Case Narrative**.

Blank Contamination

No targeted compounds above the project method quantitation limit (MQL) for each compound were observed in the Laboratory Method Blanks unless noted in the **Case Narrative**.

Laboratory Control Samples

Acceptance criteria for surrogate and analytes recoveries are 70 to 130 percent; all recoveries are within the acceptance criteria unless noted in the **Case Narrative**.

Discussion

Samples were received in proper condition and laboratory control parameters were met unless otherwise noted below. The work performed was in accordance with ISO/IEC 17025:2017.

SCS Engineers
 2830 Dairy Drive
 Madison, WI 53718-6751

Site Name: Sandie's Dry Cleaner and Laundry (Former)
Site Location: Little Chute, WI
Project Manager: Jacob Krause

Beacon Proposal: 230503R02
Lab Work Order: 0006993
Reported: 06/06/2023

STATEMENT OF DATA QUALIFICATIONS

Qualifier Summary:

Analysis: TO-17 (Passive) / Organics in Air by EPA TO-17 Using Beacon Sampler

0006993-06 01R_SSG05_20230523

Compound	Q	Q Explanation
1,4-Dichlorobenzene-d4	I3	Internal Standard recovery was below laboratory and method acceptance limits, associated results with detections are biased high.

SCS Engineers
2830 Dairy Drive
Madison, WI 53718-6751

Site Name: Sandie's Dry Cleaner and Laundry (Former)
Site Location: Little Chute, WI
Project Manager: Jacob Krause

Beacon Proposal: 230503R02
Lab Work Order: 0006993
Reported: 06/06/2023

Analytical Results

SCS Engineers 2830 Dairy Drive Madison, WI 53718-6751	Site Name: Sandie's Dry Cleaner and Laundry (Former) Site Location: Little Chute, WI Project Manager: Jacob Krause	Beacon Proposal: 230503R02 Lab Work Order: 0006993 Reported: 06/06/2023
--	---	--

Summary of Compound Detections- Concentration

Lab Sample ID: 0006993-03	01R_SSG02_20230523	Method: TO-17 (Passive)
Sewer Gas		

Analyte	CAS#	Result (µg/m³)	Q	RT	LOQ (µg/m³)	File ID
Tetrachloroethene	127-18-4	54.0		8.158	1.21	Ka23052607.D

Lab Sample ID: 0006993-04	01R_SSG03_20230523	Method: TO-17 (Passive)
Sewer Gas		

Analyte	CAS#	Result (µg/m³)	Q	RT	LOQ (µg/m³)	File ID
Tetrachloroethene	127-18-4	37.9		8.158	1.21	Ka23052608.D

Lab Sample ID: 0006993-05	01R_SSG04_20230523	Method: TO-17 (Passive)
Sewer Gas		

Analyte	CAS#	Result (µg/m³)	Q	RT	LOQ (µg/m³)	File ID
Trichloroethene	79-01-6	1.65		5.920	1.51	Ka23052609.D
Tetrachloroethene	127-18-4	36.3		8.158	1.21	Ka23052609.D

Lab Sample ID: 0006993-06	01R_SSG05_20230523	Method: TO-17 (Passive)
Sewer Gas		

Analyte	CAS#	Result (µg/m³)	Q	RT	LOQ (µg/m³)	File ID
Tetrachloroethene	127-18-4	14.3		8.158	1.21	Ka23052610.D

SCS Engineers
2830 Dairy Drive
Madison, WI 53718-6751**Site Name:** Sandie's Dry Cleaner and Laundry (Former)
Site Location: Little Chute, WI
Project Manager: Jacob Krause**Beacon Proposal:** 230503R02
Lab Work Order: 0006993
Reported: 06/06/2023***Data Summary Table- Concentration***

Compound	Frequency	LOQ ($\mu\text{g}/\text{m}^3$)	Max Value ($\mu\text{g}/\text{m}^3$)
Trichloroethene	1	1.51	1.65
Tetrachloroethene	4	1.21	54.0

SCS Engineers
2830 Dairy Drive
Madison, WI 53718-6751

Site Name: Sandie's Dry Cleaner and Laundry (Former)
Site Location: Little Chute, WI
Project Manager: Jacob Krause

Beacon Proposal: 230503R02
Lab Work Order: 0006993
Reported: 06/06/2023

Detailed Analytical Results

SCS Engineers
 2830 Dairy Drive
 Madison, WI 53718-6751

Site Name: Sandie's Dry Cleaner and Laundry (Former)
Site Location: Little Chute, WI
Project Manager: Jacob Krause

Beacon Proposal: 230503R02
Lab Work Order: 0006993
Reported: 06/06/2023

Lab Sample ID: 0006993-01

Trip Blank

Method: TO-17 (Passive)

Air

Analyte	CAS#	Result ($\mu\text{g}/\text{m}^3$)	Q	LOQ ($\mu\text{g}/\text{m}^3$)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.613		0.613	05/26/2023 11:35	Ka23052605.D
trans-1,2-Dichloroethene	156-60-5	<1.13		1.13	05/26/2023 11:35	Ka23052605.D
cis-1,2-Dichloroethene	156-59-2	<0.936		0.936	05/26/2023 11:35	Ka23052605.D
Trichloroethene	79-01-6	<1.50		1.50	05/26/2023 11:35	Ka23052605.D
Tetrachloroethene	127-18-4	<1.21		1.21	05/26/2023 11:35	Ka23052605.D
Analyte	CAS#	% Recovery	Recovery Limits	Q	Analyzed	File ID
Surrogate: 1,2-DCA-d4	17060-07-0	99.2%	70-130		05/26/2023 11:35	Ka23052605.D
Surrogate: Toluene-d8	2037-26-5	98.0%	70-130		05/26/2023 11:35	Ka23052605.D
Surrogate: Bromofluorobenzene	460-00-4	97.7%	70-130		05/26/2023 11:35	Ka23052605.D

SCS Engineers
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 Madison, WI 53718-6751

Site Name: Sandie's Dry Cleaner and Laundry (Former)
Site Location: Little Chute, WI
Project Manager: Jacob Krause

Beacon Proposal: 230503R02
Lab Work Order: 0006993
Reported: 06/06/2023

Lab Sample ID: 0006993-02

01R_SSG01_20230523

Method: TO-17 (Passive)

Sewer Gas

Analyte	CAS#	Result (µg/m ³)	Q	LOQ (µg/m ³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.613		0.613	05/26/2023 12:04	Ka23052606.D
trans-1,2-Dichloroethene	156-60-5	<1.13		1.13	05/26/2023 12:04	Ka23052606.D
cis-1,2-Dichloroethene	156-59-2	<0.936		0.936	05/26/2023 12:04	Ka23052606.D
Trichloroethene	79-01-6	<1.50		1.50	05/26/2023 12:04	Ka23052606.D
Tetrachloroethene	127-18-4	<1.21		1.21	05/26/2023 12:04	Ka23052606.D
Analyte	CAS#	% Recovery	Recovery Limits	Q	Analyzed	File ID
Surrogate: 1,2-DCA-d4	17060-07-0	94.7%	70-130		05/26/2023 12:04	Ka23052606.D
Surrogate: Toluene-d8	2037-26-5	98.1%	70-130		05/26/2023 12:04	Ka23052606.D
Surrogate: Bromofluorobenzene	460-00-4	98.5%	70-130		05/26/2023 12:04	Ka23052606.D

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Site Name: Sandie's Dry Cleaner and Laundry (Former)
Site Location: Little Chute, WI
Project Manager: Jacob Krause

Beacon Proposal: 230503R02
Lab Work Order: 0006993
Reported: 06/06/2023

Lab Sample ID: 0006993-03

01R_SSG02_20230523

Method: TO-17 (Passive)

Sewer Gas

Analyte	CAS#	Result (µg/m ³)	Q	LOQ (µg/m ³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.613		0.613	05/26/2023 12:32	Ka23052607.D
trans-1,2-Dichloroethene	156-60-5	<1.13		1.13	05/26/2023 12:32	Ka23052607.D
cis-1,2-Dichloroethene	156-59-2	<0.936		0.936	05/26/2023 12:32	Ka23052607.D
Trichloroethene	79-01-6	<1.50		1.50	05/26/2023 12:32	Ka23052607.D
Tetrachloroethene	127-18-4	54.0		1.21	05/26/2023 12:32	Ka23052607.D
Analyte	CAS#	% Recovery	Recovery Limits	Q	Analyzed	File ID
Surrogate: 1,2-DCA-d4	17060-07-0	99.1%	70-130		05/26/2023 12:32	Ka23052607.D
Surrogate: Toluene-d8	2037-26-5	98.2%	70-130		05/26/2023 12:32	Ka23052607.D
Surrogate: Bromofluorobenzene	460-00-4	101%	70-130		05/26/2023 12:32	Ka23052607.D

SCS Engineers
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Site Name: Sandie's Dry Cleaner and Laundry (Former)
Site Location: Little Chute, WI
Project Manager: Jacob Krause

Beacon Proposal: 230503R02
Lab Work Order: 0006993
Reported: 06/06/2023

Lab Sample ID: 0006993-04

01R_SSG03_20230523

Method: TO-17 (Passive)

Sewer Gas

Analyte	CAS#	Result (µg/m ³)	Q	LOQ (µg/m ³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.613		0.613	05/26/2023 13:00	Ka23052608.D
trans-1,2-Dichloroethene	156-60-5	<1.13		1.13	05/26/2023 13:00	Ka23052608.D
cis-1,2-Dichloroethene	156-59-2	<0.937		0.937	05/26/2023 13:00	Ka23052608.D
Trichloroethene	79-01-6	<1.50		1.50	05/26/2023 13:00	Ka23052608.D
Tetrachloroethene	127-18-4	37.9		1.21	05/26/2023 13:00	Ka23052608.D
Analyte	CAS#	% Recovery	Recovery Limits	Q	Analyzed	File ID
Surrogate: 1,2-DCA-d4	17060-07-0	96.9%	70-130		05/26/2023 13:00	Ka23052608.D
Surrogate: Toluene-d8	2037-26-5	94.9%	70-130		05/26/2023 13:00	Ka23052608.D
Surrogate: Bromofluorobenzene	460-00-4	103%	70-130		05/26/2023 13:00	Ka23052608.D

SCS Engineers
 2830 Dairy Drive
 Madison, WI 53718-6751

Site Name: Sandie's Dry Cleaner and Laundry (Former)
Site Location: Little Chute, WI
Project Manager: Jacob Krause

Beacon Proposal: 230503R02
Lab Work Order: 0006993
Reported: 06/06/2023

Lab Sample ID: 0006993-05

01R_SSG04_20230523

Method: TO-17 (Passive)

Sewer Gas

Analyte	CAS#	Result (µg/m ³)	Q	LOQ (µg/m ³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.613		0.613	05/26/2023 13:29	Ka23052609.D
trans-1,2-Dichloroethene	156-60-5	<1.13		1.13	05/26/2023 13:29	Ka23052609.D
cis-1,2-Dichloroethene	156-59-2	<0.937		0.937	05/26/2023 13:29	Ka23052609.D
Trichloroethene	79-01-6	1.65		1.51	05/26/2023 13:29	Ka23052609.D
Tetrachloroethene	127-18-4	36.3		1.21	05/26/2023 13:29	Ka23052609.D
Analyte	CAS#	% Recovery	Recovery Limits	Q	Analyzed	File ID
Surrogate: 1,2-DCA-d4	17060-07-0	97.8%	70-130		05/26/2023 13:29	Ka23052609.D
Surrogate: Toluene-d8	2037-26-5	90.5%	70-130		05/26/2023 13:29	Ka23052609.D
Surrogate: Bromofluorobenzene	460-00-4	105%	70-130		05/26/2023 13:29	Ka23052609.D

SCS Engineers
 2830 Dairy Drive
 Madison, WI 53718-6751

Site Name: Sandie's Dry Cleaner and Laundry (Former)
Site Location: Little Chute, WI
Project Manager: Jacob Krause

Beacon Proposal: 230503R02
Lab Work Order: 0006993
Reported: 06/06/2023

Lab Sample ID: 0006993-06

01R_SSG05_20230523

Method: TO-17 (Passive)

Sewer Gas

Analyte	CAS#	Result (µg/m ³)	Q	LOQ (µg/m ³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.613		0.613	05/26/2023 13:58	Ka23052610.D
trans-1,2-Dichloroethene	156-60-5	<1.13		1.13	05/26/2023 13:58	Ka23052610.D
cis-1,2-Dichloroethene	156-59-2	<0.937		0.937	05/26/2023 13:58	Ka23052610.D
Trichloroethene	79-01-6	<1.51		1.51	05/26/2023 13:58	Ka23052610.D
Tetrachloroethene	127-18-4	14.3		1.21	05/26/2023 13:58	Ka23052610.D
Analyte	CAS#	% Recovery	Recovery Limits	Q	Analyzed	File ID
Surrogate: 1,2-DCA-d4	17060-07-0	96.3%	70-130		05/26/2023 13:58	Ka23052610.D
Surrogate: Toluene-d8	2037-26-5	91.1%	70-130		05/26/2023 13:58	Ka23052610.D
Surrogate: Bromofluorobenzene	460-00-4	106%	70-130		05/26/2023 13:58	Ka23052610.D

SCS Engineers
2830 Dairy Drive
Madison, WI 53718-6751

Site Name: Sandie's Dry Cleaner and Laundry (Former)
Site Location: Little Chute, WI
Project Manager: Jacob Krause

Beacon Proposal: 230503R02
Lab Work Order: 0006993
Reported: 06/06/2023

QC Information/Summary

SCS Engineers
 2830 Dairy Drive
 Madison, WI 53718-6751

Site Name: Sandie's Dry Cleaner and Laundry (Former)
Site Location: Little Chute, WI
Project Manager: Jacob Krause

Beacon Proposal: 230503R02
Lab Work Order: 0006993
Reported: 06/06/2023

Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary

Sequence: B23E038 - Instrument: K System - File ID: Kc23051215.D
B23E038-ICV1 (LCSD/Second Source Verification/CALV)

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	44.1	10	ng	50.0		88.2	70-130			
trans-1,2-Dichloroethene	51.6	10	ng	50.0		103	70-130			
cis-1,2-Dichloroethene	48.9	10	ng	50.0		97.8	70-130			
Trichloroethene	48.4	10	ng	50.0		96.8	70-130			
Tetrachloroethene	47.6	10	ng	50.0		95.2	70-130			
<i>Surrogate: 1,2-DCA-d4</i>	<i>50.1</i>		<i>ng</i>	<i>50.0</i>		<i>100</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.8</i>		<i>ng</i>	<i>50.0</i>		<i>102</i>	<i>70-130</i>			
<i>Surrogate: Bromofluorobenzene</i>	<i>49.1</i>		<i>ng</i>	<i>50.0</i>		<i>98.2</i>	<i>70-130</i>			

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Site Name: Sandie's Dry Cleaner and Laundry (Former)
Site Location: Little Chute, WI
Project Manager: Jacob Krause

Beacon Proposal: 230503R02
Lab Work Order: 0006993
Reported: 06/06/2023

Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary

Sequence: B23E038 - Instrument: K System - File ID: Kc23051218.D
B23E038-ICB1 (Lab Blank/Initial Calibration Blank)

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<5	10	ng							U
trans-1,2-Dichloroethene	<5	10	ng							U
cis-1,2-Dichloroethene	<5	10	ng							U
Trichloroethene	<5	10	ng							U
Tetrachloroethene	<5	10	ng							U
<i>Surrogate: 1,2-DCA-d4</i>	<i>101</i>		<i>ng</i>	<i>100</i>		<i>101</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>103</i>		<i>ng</i>	<i>100</i>		<i>103</i>	<i>70-130</i>			
<i>Surrogate: Bromofluorobenzene</i>	<i>95.4</i>		<i>ng</i>	<i>100</i>		<i>95.4</i>	<i>70-130</i>			

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Site Name: Sandie's Dry Cleaner and Laundry (Former)
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Project Manager: Jacob Krause

Beacon Proposal: 230503R02
Lab Work Order: 0006993
Reported: 06/06/2023

Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary

Sequence: B23E060 - Batch: 23E0042 - Instrument: K System - File ID: Ka23052602.D

23E0042-BS1 (LCS, Calibration Source Verification)

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	47.1	10	ng	50.0		94.1	70-130			
trans-1,2-Dichloroethene	52.6	10	ng	50.0		105	70-130			
cis-1,2-Dichloroethene	49.6	10	ng	50.0		99.2	70-130			
Trichloroethene	48.2	10	ng	50.0		96.3	70-130			
Tetrachloroethene	48.9	10	ng	50.0		97.7	70-130			
<i>Surrogate: 1,2-DCA-d4</i>	<i>49.0</i>		<i>ng</i>	<i>50.0</i>		<i>98.0</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>52.0</i>		<i>ng</i>	<i>50.0</i>		<i>104</i>	<i>70-130</i>			
<i>Surrogate: Bromofluorobenzene</i>	<i>49.9</i>		<i>ng</i>	<i>50.0</i>		<i>99.8</i>	<i>70-130</i>			

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Site Name: Sandie's Dry Cleaner and Laundry (Former)
Site Location: Little Chute, WI
Project Manager: Jacob Krause

Beacon Proposal: 230503R02
Lab Work Order: 0006993
Reported: 06/06/2023

Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary

Sequence: B23E060 - Batch: 23E0042 - Instrument: K System - File ID: Ka23052603.D
23E0042-BLK1 (Lab Blank)

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<0.613	0.613	µg/m ³							U
trans-1,2-Dichloroethene	<1.13	1.13	µg/m ³							U
cis-1,2-Dichloroethene	<0.936	0.936	µg/m ³							U
Trichloroethene	<1.50	1.50	µg/m ³							U
Tetrachloroethene	<1.21	1.21	µg/m ³							U
<i>Surrogate: 1,2-DCA-d4</i>	<i>98.7</i>		<i>ng</i>	<i>100</i>		<i>98.7</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>101</i>		<i>ng</i>	<i>100</i>		<i>101</i>	<i>70-130</i>			
<i>Surrogate: Bromofluorobenzene</i>	<i>95.9</i>		<i>ng</i>	<i>100</i>		<i>95.9</i>	<i>70-130</i>			

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Project Manager: Jacob Krause

Beacon Proposal: 230503R02
Lab Work Order: 0006993
Reported: 06/06/2023

Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary

Sequence: B23E060 - Instrument: K System - File ID: Ka23052604.D
B23E060-ICV1 (LCSD/Second Source Verification/CALV)

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	53.5	10	ng	50.0		107	70-130			
trans-1,2-Dichloroethene	54.0	10	ng	50.0		108	70-130			
cis-1,2-Dichloroethene	50.8	10	ng	50.0		102	70-130			
Trichloroethene	49.2	10	ng	50.0		98.4	70-130			
Tetrachloroethene	49.3	10	ng	50.0		98.6	70-130			
<i>Surrogate: 1,2-DCA-d4</i>	<i>48.3</i>		<i>ng</i>	<i>50.0</i>		<i>96.7</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>51.1</i>		<i>ng</i>	<i>50.0</i>		<i>102</i>	<i>70-130</i>			
<i>Surrogate: Bromofluorobenzene</i>	<i>48.1</i>		<i>ng</i>	<i>50.0</i>		<i>96.2</i>	<i>70-130</i>			

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Project Manager: Jacob Krause

Beacon Proposal: 230503R02
Lab Work Order: 0006993
Reported: 06/06/2023

Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary

Sequence: B23E060 - Instrument: K System - File ID: Ka23052611.D
B23E060-CCV1 (LCS, Closing Calibration Verification)

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	47.3	10	ng	50.0		94.6	70-130			
trans-1,2-Dichloroethene	51.9	10	ng	50.0		104	70-130			
cis-1,2-Dichloroethene	49.5	10	ng	50.0		99.0	70-130			
Trichloroethene	49.2	10	ng	50.0		98.4	70-130			
Tetrachloroethene	47.3	10	ng	50.0		94.5	70-130			
<i>Surrogate: 1,2-DCA-d4</i>	<i>49.2</i>		<i>ng</i>	<i>50.0</i>		<i>98.3</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.9</i>		<i>ng</i>	<i>50.0</i>		<i>99.9</i>	<i>70-130</i>			
<i>Surrogate: Bromofluorobenzene</i>	<i>50.6</i>		<i>ng</i>	<i>50.0</i>		<i>101</i>	<i>70-130</i>			

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Site Name: Sandie's Dry Cleaner and Laundry (Former)
Site Location: Little Chute, WI
Project Manager: Jacob Krause

Beacon Proposal: 230503R02
Lab Work Order: 0006993
Reported: 06/06/2023

Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary

Sequence: B23E060 - Instrument: K System - File ID: Ka23052612.D

B23E060-CCB1 (Lab Blank)

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<5	10	ng							U
trans-1,2-Dichloroethene	<5	10	ng							U
cis-1,2-Dichloroethene	<5	10	ng							U
Trichloroethene	<5	10	ng							U
Tetrachloroethene	<5	10	ng							U
<i>Surrogate: 1,2-DCA-d4</i>	97.5		ng	100		97.5	70-130			
<i>Surrogate: Toluene-d8</i>	96.8		ng	100		96.8	70-130			
<i>Surrogate: Bromofluorobenzene</i>	97.5		ng	100		97.5	70-130			

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Site Name: Sandie's Dry Cleaner and Laundry (Former)
Site Location: Little Chute, WI
Project Manager: Jacob Krause

Beacon Proposal: 230503R02
Lab Work Order: 0006993
Reported: 06/06/2023

Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary

Sequence: B23E060 - Instrument: K System - File ID: Ka23052617.D
B23E060-CCV2 (Continuing Calibration Verification)

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	42.7	10	ng	50.0		85.4	70-130			
trans-1,2-Dichloroethene	50.2	10	ng	50.0		100	70-130			
cis-1,2-Dichloroethene	48.7	10	ng	50.0		97.3	70-130			
Trichloroethene	50.1	10	ng	50.0		100	70-130			
Tetrachloroethene	47.6	10	ng	50.0		95.2	70-130			
<i>Surrogate: 1,2-DCA-d4</i>	<i>47.9</i>		<i>ng</i>	<i>50.0</i>		<i>95.7</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.2</i>		<i>ng</i>	<i>50.0</i>		<i>98.3</i>	<i>70-130</i>			
<i>Surrogate: Bromofluorobenzene</i>	<i>51.7</i>		<i>ng</i>	<i>50.0</i>		<i>103</i>	<i>70-130</i>			

SCS Engineers
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Site Name: Sandie's Dry Cleaner and Laundry (Former)
Site Location: Little Chute, WI
Project Manager: Jacob Krause

Beacon Proposal: 230503R02
Lab Work Order: 0006993
Reported: 06/06/2023

Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary

Sequence: B23E060 - Instrument: K System - File ID: Ka23052618.D
B23E060-CCB2 (Lab Blank)

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<5	10	ng							U
trans-1,2-Dichloroethene	<5	10	ng							U
cis-1,2-Dichloroethene	<5	10	ng							U
Trichloroethene	<5	10	ng							U
Tetrachloroethene	<5	10	ng							U
<i>Surrogate: 1,2-DCA-d4</i>	<i>98.1</i>		<i>ng</i>	<i>100</i>		<i>98.1</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>98.5</i>		<i>ng</i>	<i>100</i>		<i>98.5</i>	<i>70-130</i>			
<i>Surrogate: Bromofluorobenzene</i>	<i>99.4</i>		<i>ng</i>	<i>100</i>		<i>99.4</i>	<i>70-130</i>			

SCS Engineers
 2830 Dairy Drive
 Madison, WI 53718-6751

Site Name: Sandie's Dry Cleaner and Laundry (Former)
Site Location: Little Chute, WI
Project Manager: Jacob Krause

Beacon Proposal: 230503R02
Lab Work Order: 0006993
Reported: 06/06/2023

TO-17 (Passive) - LCS/LCSD RPD Quality Control Summary
LCS: 23E0042-BS1 File ID: Ka23052602.D

Analyzed: 5/26/23 10:15

LCSD: B23E060-ICV1 File ID: Ka23052604.D

Analyzed: 5/26/23 9:27

Analyte	CAS#	LCS Result (ng)	%REC Q	Spike Level (ng)	LCSD Result (ng)	%REC	%REC Limits	RPD	RPD Limit	Q
Vinyl Chloride	75-01-4	47.06	94.12	50	53.49	107.00	70-130	12.79	30	
trans-1,2-Dichloroethene	156-60-5	52.56	105.12	50	53.97	108.00	70-130	2.65	30	
cis-1,2-Dichloroethene	156-59-2	49.61	99.22	50	50.79	102.00	70-130	2.35	30	
Trichloroethene	79-01-6	48.16	96.32	50	49.2	98.40	70-130	2.14	30	
Tetrachloroethene	127-18-4	48.86	97.72	50	49.3	98.60	70-130	0.90	30	

SCS Engineers
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Site Name: Sandie's Dry Cleaner and Laundry (Former)
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Project Manager: Jacob Krause

Beacon Proposal: 230503R02
Lab Work Order: 0006993
Reported: 06/06/2023

Additional QC Information

SCS Engineers
 2830 Dairy Drive
 Madison, WI 53718-6751

Site Name: Sandie's Dry Cleaner and Laundry (Former)
Site Location: Little Chute, WI
Project Manager: Jacob Krause

Beacon Proposal: 230503R02
Lab Work Order: 0006993
Reported: 06/06/2023

Sample Result Calculation Summary (Concentration)
TO-17 (Passive)

Analyte	t Sampling Time minutes	DF Dilution Factor	Uc Uptake Rate	M Initial Result ng	C Calculated Result µg/m ³	File ID
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Lab ID: 0006993-01 **Sample Name:** Trip Blank

Vinyl Chloride	20,156	1.00	0.810	U	U	Ka23052605.D
trans-1,2-Dichloroethene	20,156	1.00	0.440	U	U	Ka23052605.D
cis-1,2-Dichloroethene	20,156	1.00	0.530	U	U	Ka23052605.D
Trichloroethene	20,156	1.00	0.330	U	U	Ka23052605.D
Tetrachloroethene	20,156	1.00	0.410	U	U	Ka23052605.D

Lab ID: 0006993-02 **Sample Name:** 01R_SSG01_20230523

Vinyl Chloride	20,156	1.00	0.810	U	U	Ka23052606.D
trans-1,2-Dichloroethene	20,156	1.00	0.440	U	U	Ka23052606.D
cis-1,2-Dichloroethene	20,156	1.00	0.530	U	U	Ka23052606.D
Trichloroethene	20,156	1.00	0.330	U	U	Ka23052606.D
Tetrachloroethene	20,156	1.00	0.410	U	U	Ka23052606.D

Lab ID: 0006993-03 **Sample Name:** 01R_SSG02_20230523

Vinyl Chloride	20,154	1.00	0.810	U	U	Ka23052607.D
trans-1,2-Dichloroethene	20,154	1.00	0.440	U	U	Ka23052607.D
cis-1,2-Dichloroethene	20,154	1.00	0.530	U	U	Ka23052607.D
Trichloroethene	20,154	1.00	0.330	U	U	Ka23052607.D
Tetrachloroethene	20,154	1.00	0.410	446.37	54.0	Ka23052607.D

Lab ID: 0006993-04 **Sample Name:** 01R_SSG03_20230523

Vinyl Chloride	20,142	1.00	0.810	U	U	Ka23052608.D
trans-1,2-Dichloroethene	20,142	1.00	0.440	U	U	Ka23052608.D
cis-1,2-Dichloroethene	20,142	1.00	0.530	U	U	Ka23052608.D
Trichloroethene	20,142	1.00	0.330	U	U	Ka23052608.D
Tetrachloroethene	20,142	1.00	0.410	313.18	37.9	Ka23052608.D

Lab ID: 0006993-05 **Sample Name:** 01R_SSG04_20230523

Vinyl Chloride	20,132	1.00	0.810	U	U	Ka23052609.D
trans-1,2-Dichloroethene	20,132	1.00	0.440	U	U	Ka23052609.D
cis-1,2-Dichloroethene	20,132	1.00	0.530	U	U	Ka23052609.D
Trichloroethene	20,132	1.00	0.330	10.98	1.65	Ka23052609.D
Tetrachloroethene	20,132	1.00	0.410	299.35	36.3	Ka23052609.D

SCS Engineers 2830 Dairy Drive Madison, WI 53718-6751	Site Name: Sandie's Dry Cleaner and Laundry (Former) Site Location: Little Chute, WI Project Manager: Jacob Krause	Beacon Proposal: 230503R02 Lab Work Order: 0006993 Reported: 06/06/2023
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Sample Result Calculation Summary (Concentration)
TO-17 (Passive)

Analyte	t Sampling Time minutes	DF Dilution Factor	Uc Uptake Rate	M Initial Result ng	C Calculated Result µg/m³	File ID
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Lab ID: 0006993-06 **Sample Name:** 01R_SSG05_20230523

Vinyl Chloride	20,129	1.00	0.810	U	U	Ka23052610.D
trans-1,2-Dichloroethene	20,129	1.00	0.440	U	U	Ka23052610.D
cis-1,2-Dichloroethene	20,129	1.00	0.530	U	U	Ka23052610.D
Trichloroethene	20,129	1.00	0.330	U	U	Ka23052610.D
Tetrachloroethene	20,129	1.00	0.410	118.18	14.3	Ka23052610.D

Calculations:

$$C = \frac{1000 \times M \times DF}{U_c \times t}$$

$$U_c = U * \left(\frac{T_s + 273.15}{T_u + 273.15} \right)^{1/2}$$

- where: C = concentration (µg/m³)
 M = mass (ng)
 DF = dilution factor
 Uc = uptake rate (ml/min), corrected
 t = sampling time (minutes)
 U = compound specific uptake rate
 Tu = uptake rate study temperature
 Ts = sample average temperature

Note: Tu is 16.65°C

Reference: Federal Register/Vol. 79, No. 125/June 30, 2014

SCS Engineers
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 Madison, WI 53718-6751

Site Name: Sandie's Dry Cleaner and Laundry (Former)
Site Location: Little Chute, WI
Project Manager: Jacob Krause

Beacon Proposal: 230503R02
Lab Work Order: 0006993
Reported: 06/06/2023

Method Detection and Reporting Limit Calculations (Concentration)
TO-17 (Passive)

Analyte	t Sampling Time minutes	DF Dilution Factor	Uc Uptake Rate	M Initial LOQ ng	C Calculated LOQ µg/m ³
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Lab ID: 0006993-01 **Sample Name:** Trip Blank

Vinyl Chloride	20,156	1.00	0.810	10.0	0.613
trans-1,2-Dichloroethene	20,156	1.00	0.440	10.0	1.13
cis-1,2-Dichloroethene	20,156	1.00	0.530	10.0	0.936
Trichloroethene	20,156	1.00	0.330	10.0	1.50
Tetrachloroethene	20,156	1.00	0.410	10.0	1.21

Lab ID: 0006993-02 **Sample Name:** 01R_SSG01_20230523

Vinyl Chloride	20,156	1.00	0.810	10.0	0.613
trans-1,2-Dichloroethene	20,156	1.00	0.440	10.0	1.13
cis-1,2-Dichloroethene	20,156	1.00	0.530	10.0	0.936
Trichloroethene	20,156	1.00	0.330	10.0	1.50
Tetrachloroethene	20,156	1.00	0.410	10.0	1.21

Lab ID: 0006993-03 **Sample Name:** 01R_SSG02_20230523

Vinyl Chloride	20,154	1.00	0.810	10.0	0.613
trans-1,2-Dichloroethene	20,154	1.00	0.440	10.0	1.13
cis-1,2-Dichloroethene	20,154	1.00	0.530	10.0	0.936
Trichloroethene	20,154	1.00	0.330	10.0	1.50
Tetrachloroethene	20,154	1.00	0.410	10.0	1.21

Lab ID: 0006993-04 **Sample Name:** 01R_SSG03_20230523

Vinyl Chloride	20,142	1.00	0.810	10.0	0.613
trans-1,2-Dichloroethene	20,142	1.00	0.440	10.0	1.13
cis-1,2-Dichloroethene	20,142	1.00	0.530	10.0	0.937
Trichloroethene	20,142	1.00	0.330	10.0	1.50
Tetrachloroethene	20,142	1.00	0.410	10.0	1.21

Lab ID: 0006993-05 **Sample Name:** 01R_SSG04_20230523

Vinyl Chloride	20,132	1.00	0.810	10.0	0.613
trans-1,2-Dichloroethene	20,132	1.00	0.440	10.0	1.13
cis-1,2-Dichloroethene	20,132	1.00	0.530	10.0	0.937
Trichloroethene	20,132	1.00	0.330	10.0	1.51
Tetrachloroethene	20,132	1.00	0.410	10.0	1.21

Lab ID: 0006993-06 **Sample Name:** 01R_SSG05_20230523

Vinyl Chloride	20,129	1.00	0.810	10.0	0.613
trans-1,2-Dichloroethene	20,129	1.00	0.440	10.0	1.13
cis-1,2-Dichloroethene	20,129	1.00	0.530	10.0	0.937
Trichloroethene	20,129	1.00	0.330	10.0	1.51
Tetrachloroethene	20,129	1.00	0.410	10.0	1.21

SCS Engineers
 2830 Dairy Drive
 Madison, WI 53718-6751

Site Name: Sandie's Dry Cleaner and Laundry (Former)
Site Location: Little Chute, WI
Project Manager: Jacob Krause

Beacon Proposal: 230503R02
Lab Work Order: 0006993
Reported: 06/06/2023

Laboratory Certification List

Certification ID	Certification No.	Description	Expires	Project Required
Alaska CS-LAP	19-002	Alaska Department of Environmental Conservation	12/30/2024	
DoD-ELAP	72690/L22-563	United States Department of Defense Environmental Laboratory Accreditation	11/30/2024	
ISO/IEC 17025:2017	72690/L22-563	General Requirements for the Competence of Testing and Calibration Laboratories	11/30/2024	
NEFAP	72690/L22-564	TNI National Environmental Field Activities Program (NEFAP)	11/30/2024	
NY-NELAC	12097	New York Department of Health	04/01/2024	
Utah-NELAC	MD010912022-12	Utah Department of Health	12/31/2023	

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Qualifiers/Notes and Definitions

General Definitions:

DF	Dilution Factor
DL	Detection Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
NA	Not Applicable
Q	Qualifier
RPD	Relative Percent Difference
RT	Retention Times in Minutes
RRT	Evaluation of Relative Retention Times in RRT Units (qualified if outside ± 0.06 control limits)
3σ	Uncertainty
∉	Compound not on scope of accreditation
+	values are outside method/contract required QC limits
∅	Compound not on scope of accreditation and analyzed with a one-point calibration

Sample/Sample Receipt Qualifiers and Notes:

I3 Internal Standard recovery was below laboratory and method acceptance limits, associated results with detections are biased high.

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Sample Management Records

Client Information					Project Manager: <u>Robert Langdon</u>		Client PO:		INDOOR AIR	AMBIENT AIR	CRAWL SPACE	SEWER GAS
Company: <u>SCS Engineers</u>					Project Name: <u>Sandie's Dry Cleaner</u>		Turn around time (check one): <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush (specify) ___ days					
Address: <u>2830 Dairy Drive</u>					Location: <u>Little Chute, WI</u>		Analysis: <u>TCW listed on order form</u>					
City / State / Zip: <u>Madison, WI, 53718</u>					Submitted by: <u>Jacob Krause</u>		<input checked="" type="checkbox"/> Method TO-17 <input type="checkbox"/> Method 8260C					
Phone: <u>608-212-3995</u>					Email: <u>jkrause@scsengineers.com</u>							
Location ID	Start Date	Start Time	Stop Date	Stop Time	Aver Temp (C)	Notes						
<u>01R-SSG01-20230523</u>	<u>5-9-23</u>	<u>11:19</u>	<u>5-23-23</u>	<u>11:15</u>							<input checked="" type="checkbox"/>	
<u>01R-SSG02-20230523</u>		<u>11:25</u>		<u>11:19</u>							<input checked="" type="checkbox"/>	
<u>01R-SSG03-20230523</u>		<u>11:41</u>		<u>11:23</u>							<input checked="" type="checkbox"/>	
<u>01R-SSG04-20230523</u>		<u>11:56</u>		<u>11:28</u>							<input checked="" type="checkbox"/>	
<u>01R-SSG05-20230523</u>	<u>↓</u>	<u>12:02</u>	<u>↓</u>	<u>11:31</u>							<input checked="" type="checkbox"/>	
<u>Trip Blank</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>nae 5/25/23</u>						
Special Notes / Instructions: <u>SCS Proj # 25 222267.02</u>												
Relinquished by (signature): <u>[Signature]</u>			Date / Time: <u>5/24/2023 / 0840</u>			Received by (signature): <u>[Signature]</u>			Date / Time: <u>5/25/23 11:28</u>			
Relinquished by (signature):			Date / Time:			Received by (signature):			Date / Time:			
For Lab Use Only			Beacon Job No: <u>6993</u>			Beacon Proposal: <u>230503R02</u>						
Courier Name: <u>FedEx</u>			Shipment Condition: <u>Good</u>			Custody Seal Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> n/a			Custody Seal No: <u>4769917</u>			