### SCS ENGINEERS

April 19, 2016 File No. 25213180.12

Mr. Richard Joslin Wisconsin Department of Natural Resources 2984 Shawano Avenue Green Bay, WI 54313-6727

Subject: Summary of Additional Vapor Intrusion Assessment Sampling East 5<sup>th</sup> Street, Shawano, Wisconsin BRRTS #02-59-563634

Dear Mr. Joslin:

SCS Engineers (SCS) is providing the following summary for a second round of vapor intrusion assessment performed for the residences at 707, 713, 720, and 721 East 5<sup>th</sup> Street, Shawano, Wisconsin (**Figure 1**). Initial sampling results were summarized in our letter dated September 24, 2015. The work was performed under the Wisconsin Department of Natural Resources (WDNR) Vapor Intrusion Zone Contract (VIZC).

Volatile organic compounds (VOCs) were not detected at concentrations in excess of WDNR's vapor standards during the second round of sampling. Additional information for the second sampling event is provided below.

### METHODS

SCS initiated a second round of sub-slab vapor, indoor air, and outdoor (background) air sampling on February 22, 2016. Indoor air and sub-slab vapor samples were collected for each of the above-noted properties. An outdoor air (background) sample was also collected from the 720 East 5<sup>th</sup> Street property. The sampling was performed consistent with the VIZC contract and WDNR vapor assessment guidance (please refer to the documents for further details).

SCS transported all of the samples to the Wisconsin State Laboratory of Hygiene in Madison, Wisconsin, for VOC analysis via method TO-15. Samples were analyzed for tetrachloroethylene (PCE), trichloroethylene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), and vinyl chloride.

### FINDINGS

Photos from each sample location are included in **Attachment A**. Field and laboratory chain of custody forms are included in **Attachment B**. Laboratory reports are included in **Attachment C** and summarized in **Table 1** and **Table 2**. Results are also summarized below:

Mr. Richard Joslin April 19, 2016 Page 2

- PCE was detected in every sub-slab vapor sample, but the concentrations do not exceed the residential vapor risk screening level (VRSL).
- TCE was detected in the 707 East 5<sup>th</sup> Street sub-slab vapor sample, but the concentration does not exceed the VRSL. No other VOCs were detected in the sub-slab vapor samples.
- TCE was detected in the indoor air sample from 720 East 5<sup>th</sup> Street, but the concentration does not exceed the residential vapor action level. No other VOCs were detected in the indoor air samples.
- VOCs were not detected in the outdoor air (background) sample.

Please feel free to contact me at 608-216-7329 if you have any questions regarding this letter.

Sincerely,

Hobert E Angl-

Robert Langdon Senior Project Manager SCS ENGINEERS

REL/lmh/SLC

 Attachments: Table 1 – Sub-Slab Vapor Analytical Results Summary Table 2 – Indoor Air and Background Air Analytical Results Summary Figure 1 – Vapor Assessment Sampling Locations Attachment A – Photos Attachment B – Field and Laboratory Chain of Custody Forms Attachment C – Laboratory Reports

I:\25213180\25213180.12\Reports\160419\_Joslin\_Vapor Assessment Summary.doc

### TABLES

- 1
- Sub-Slab Vapor Analytical Results Summary Indoor Air and Background Air Analytical Results Summary 2

Table 1. Sub-Slab Vapor Analytical Results Summary					
WDNR VIZC East 5th Street, Shawano, Wisconsin / SCS Engineers Project #25213180.12					
(Results are in ppbV)					

Sample	Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
707 Sub-Slab	9/1/2015	1.4	<0.085	<0.085	<0.085	<0.085
-	2/23/2016	1.8	1.4	<0.43	<0.43	<0.43
713 Sub-Slab	9/1/2015	1.3	<0.085	<0.085	<0.085	<0.085
	2/23/2016	0.22 F	<0.085	<0.085	<0.085	<0.085
720 Sub-Slab	9/1/2015	19	<2.1	<2.1	<2.1	<2.1
	2/23/2016	11	<0.085	<0.085	<0.085	<0.085
721 Sub-Slab	9/1/2015	<b>6.8</b> F	<2.1	<2.1	<2.1	<2.1
	2/23/2016	6.6	<0.085	<0.085	<0.085	<0.085
Vapor Risk Screenir	ng Level (Residential)	210	13	NE	NE	22

Abbreviations:

ppbV = parts per billion by volumeTCE = trichloroethyleneNE = not establishedPCE = tetrachloroethylene

cis-1,2-DCE = cis-1,2-dichloroethylenetrans-1,2-DCE = trans-1,2-dichloroethylene

#### Notes:

- 1. Samples were collected in 6-liter summa canisters over a 30-minute period and analyzed using the USEPA TO-15 analytical method.
- 2. Vapor Risk Screening Levels are Indoor Air Vapor Action Levels divided by Attenuation Factor of 0.03 for residential buildings.
- 3. Indoor Air Vapor Action Levels and Attenuation Factor from Wisconsin Department of Natural Resources Quick Look-up Table dated December 2015.
- 4. **Bold+underlined** values meet or exceed Vapor Risk Screening Levels.

Laboratory Note:

F next to result = Result is in between level of detection and level of quantification.

Created by:	LMH	Date: <u>9/21/2015</u>
Last revision by:	LMH	Date: 4/1/2016
Checked by:	REL	Date: 4/4/2016

l:\25213180\25213180.12\Data\Tables\[East 5th Street\_Shawano\_Table 1\_Sub-Slab Vapor.xls]Sub-Slab Results

#### Table 2. Indoor Air and Background Air Analytical Results Summary WDNR VIZC East 5th Street, Shawano, Wisconsin / SCS Engineers Project #25213180.12 (Results are in ppbV)

Sample	Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
707 Basement	9/1/2015	0.63	<0.085	<0.085	<0.085	<0.085
	2/22/2016	<0.085	<0.085	<0.085	<0.085	<0.085
713 Basement	9/1/2015	2.2	<0.085	<0.085	<0.085	<0.085
	2/22/2016	<0.085	<0.085	<0.085	<0.085	<0.085
720 Basement	9/1/2015	<0.085	<u>1.9</u>	<0.085	<0.085	<0.085
	2/22/2016	<0.085	0.25 F	<0.085	<0.085	<0.085
721 Basement	9/1/2015	0.69	<0.085	<0.085	<0.085	<0.085
	2/22/2016	<0.085	<0.085	<0.085	<0.085	<0.085
Outdoor Reference	9/1/2015	<0.085	<0.085	<0.085	<0.085	<0.085
Sample	2/22/2016	<0.085	<0.085	<0.085	<0.085	<0.085
Indoor Air Vapor Actic (Residential)	on Level	6.2	0.39	NE	NE	0.65

Abbreviations:

ppbV = parts per billion by volume cis-1,2-DCE = cis-1,2-dichloroethylene PCE = tetrachloroethylene trans-1,2-DCE = trans-1,2-dichloroethylene TCE = trichloroethylene NE = not established

#### Notes:

1. Samples were collected in 6-liter summa canisters over a 24-hour period and analyzed using the USEPA TO-15 analytical method. 2. Indoor Air Vapor Action Levels from Wisconsin Department of Natural Resources Quick Look-Up Table Dated December 2015.

3. **Bold** & **underlined** values exceed Indoor Air Vapor Action Levels.

#### Laboratory Notes:

F next to result = Result is between level of detection and level of quantification.

Created by:	LMH	Date: <u>9/21/2015</u>
Last revision by:	LMH	Date: 4/1/2016
Checked by:	REL	Date: 4/4/2016

I:\25213180\25213180.12\Data\Tables\[East 5th Street\_Shawano\_Table 2\_Indoor Air.xls]Results

### FIGURE

1 Vapor Assessment Sampling Locations



Figure 1. Vapor Assessment Sampling Locations East 5<sup>th</sup> Street, Shawano, WI

### ATTACHMENT A

Photos



**Photo 1:** 707 East 5<sup>th</sup> Street – Indoor air sample. February 22, 2016.



**Photo 2:** 707 East 5<sup>th</sup> Street – Sub-slab sample. February 23, 2016.

East 5th Street Vapor Intrusion Assessment Sampling Shawano, Wisconsin SCS Engineers Project #25213180.12



**Photo 3:** 713 East 5<sup>th</sup> Street – Indoor air sample. February 22, 2016.



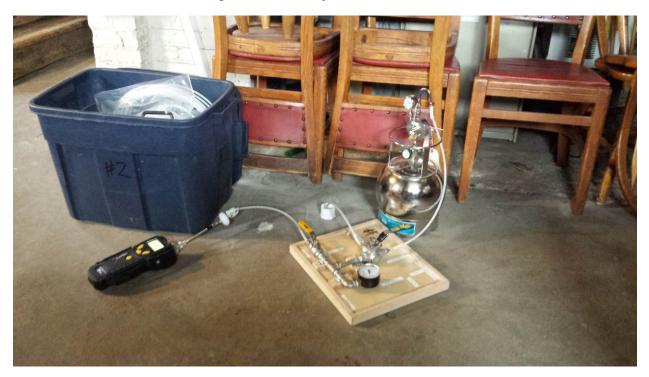
**Photo 4:** 713 East 5<sup>th</sup> Street – Sub-slab sample. February 23, 2016.



**Photo 5:** 720 East 5<sup>th</sup> Street – Indoor air sample. February 22, 2016.



**Photo 6:** 720 East 5<sup>th</sup> Street – Outdoor air sample. February 22, 2016.



**Photo 7:** 720 East 5<sup>th</sup> Street – Sub-slab sample. February 23, 2016.



**Photo 8:** 721 East 5<sup>th</sup> Street – Indoor air sample. February 22, 2016.



**Photo 9:** 721 East 5<sup>th</sup> Street – Sub-slab sample. February 23, 2016.

### ATTACHMENT B

Field and Laboratory Chain of Custody Forms

	713 5+54.					
PROJECT: VIZC- Shawno	SAMPLE ID: 55 51-5	TYPE (Circl	e One)*: SB IA OA			
PROJECT #: 25213150.12	SAMPLE INTAKE HEIGHT:	(MA)	NA for SB			
LOCATION: S-S-12	APPROX PURGE VOLUME:	3.52	NA for IA and OA			
SAMPLER: S.S.t.	APPROX SAMPLING DEPTH:	125	NA for IA and OA			
EQUIPMENT: ppSRAE PID, summ can, 30 make flow controller,						
sampling mitold, misce taking.						

Instrument/Weather Readings

Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading (ppm/ppb)
2/23/16	1107	-29	27.3	92	Cal-	30.14	467
2/23/16	1137	-3.5	266	93	Calm	30,14	6

Summa Canister Information:

Sub-Slab Water Dam Test:

Canister Size:	1L	<u>6</u> L	Test Passed: Yes No
Canister ID#	ESS-6020		NA – FOR AMBIENT AIR SAMPLES
Flow Controller ID#	7604		

General Notes/Observations:

Buckground ar = 10 ppb

Abbreviations:

PROJECT: VITZC - Sharrow	SAMPLE ID: SUG STUD	TYPE (Circl	
PROJECT: VIZC - Shanno	SAMPLE ID: SUS STAS	ITPE (CIrcle	e One)*: CB IA OA
PROJECT #: 2523150.12	SAMPLE INTAKE HEIGHT:	NA	NA for SB
LOCATION: Shamo, wI	APPROX PURGE VOLUME:	3.56	NA for IA and OA
SAMPLER: 5-5-72	APPROX SAMPLING DEPTH:	12	NA for IA and OA
EQUIPMENT: Sue previous	form		
1			

Instrument/Weather Readings

Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading (ppm(ppb)
2/23/16	1405	-26.5	29.8	93	Cala	30.11	523
2/23/16	1435	-2	30.2	93	Caln	30.10	

Summa Canister Information:

Sub-Slab Water Dam Test:

Canister Size:	1L	61	Test Passed:	Yes	No
Canister ID#	DH-0	67	NA - FOR AMBIENT	AIR SAMPLES	
Flow Controller ID#	558	15			

General Notes/Observations:

Backgrand av = 270 ppb

Abbreviations:

PROJECT: UIZC- Shimo	SAMPLE ID: 505 5125	TYPE (Circl	e One)* SB IA OA
PROJECT #: 252(3180.12	SAMPLE INTAKE HEIGHT:	NA	NA for SB
LOCATION: Shaws, wit	APPROX PURGE VOLUME:	3.5L	NA for IA and OA
SAMPLER: S.S. th	APPROX SAMPLING DEPTH:	121	NA for IA and OA
EQUIPMENT: See previous	form		
	and the second	*****	

Instrument/Weather Readings

Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading (ppm/pp)
2/23/16	204	- 28	28.4	92	Calm	30.15	285
2/25/16	1234	~2	29.5	93	Glm	30:12	

Summa Canister Information:

Sub-Slab Water Dam Test:

Canister Size:	1L	GL)	Test Passed: Yes No
Canister ID#	ESS 6011		NA – FOR AMBIENT AIR SAMPLES
Flow Controller ID#	7400		

General Notes/Observations:

Background ar = 47 ppb

Abbreviations:

PROJECT: VIZC-SLOWD	SAMPLE ID: 721 5th Star	← <b>TYPE (</b> Circl	e One)*: 🈘 IA OA
PROJECT #: 25213150.12	SAMPLE INTAKE HEIGHT:	M	NA for SB
LOCATION: Shame, w]	APPROX PURGE VOLUME:	3.54	NA for IA and OA
SAMPLER: S.S	APPROX SAMPLING DEPTH:	12-	NA for IA and OA
EQUIPMENT: su proves	£~~		
1			

Instrument/Weather Readings

Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading
2/23/16	1363	-27	29.8	93	Calm	30.11	170
2(23)10	1333	2	30.2	93	Contin	30.10	And Constrained

Summa Canister Information:

Sub-Slab Water Dam Test:

Canister Size:	11.	61	Test Passed: Yes No
Canister ID#	ESS-GOAD		NA - FOR AMBIENT AIR SAMPLES
Flow Controller ID#	1494		

General Notes/Observations:

Background ar = 23 ppb

Abbreviations:

PROJECT:	UIZC-Shanno	SAMPLE ID: 707 5th St Judger A	TYPE (Circl	le One)*: SB (A) OA
PROJECT #:	25213180-12	SAMPLE INTAKE HEIGHT:		NA for SB
LOCATION:	Shamo, WI	APPROX PURGE VOLUME:	MA	NA for IA and OA
SAMPLER:	5-5m.th	APPROX SAMPLING DEPTH:	MA	NA for IA and OA
EQUIPMENT:	su previos	form		~
	1			

Instrument/Weather Readings

Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading (ppm/(104))
2/22/16	KIDO	-27	28-8	90	3.5	30.17	310
2/23/16	1400	-2	30.6	94	Calm	30.09	-

Summa Canister Information:

Sub-Slab Water Dam Test:

Canister Size:	1L	61
Canister ID#	ESS-6	009
Flow Controller ID#	534	3

<b>Test Pass</b>	ed:	Yes	No
2			
NAL-FO	R AMBIENT A	ID SAMPLES	
INTY I U		IN SPANN LLS	

General Notes/Observations:

Beekgrond ar= 310 ppb

Abbreviations:

PROJECT: VIZC- Shawne	SAMPLE ID: Indoi-Ar	TYPE (Circle	e One)*: SB (A) OA			
PROJECT #: 2523180.12	SAMPLE INTAKE HEIGHT:	~3.5 A.	NA for SB			
LOCATION: Shamo, WI	APPROX PURGE VOLUME:	NA	NA for IA and OA			
SAMPLER: 5.5 min	APPROX SAMPLING DEPTH:	NA	NA for IA and OA			
EQUIPMENT: ppbRIAE PID, Somma com, Zalha Aun controlly						

Instrument/Weather Readings

Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading (ppm/ppb)
2/22/16	1100	-27.5	26,2	89	3.5	30.22	10
2/23/16	1100	-3	27.3	92	Calm	30.14	

Summa Canister Information:

Sub-Slab Water Dam Test:

Canister Size:	1L	61
Canister ID#	E55-6056	
Flow Controller ID#	2228	

NA)- FOR AM	BIENT AIR SAMPLES	S	

General Notes/Observations:

Backgrond aves 10 ppb

Abbreviations:

	· · · · ·	
PROJECT: UIZC- Shawno	SAMPLE ID: Judior Ar-	TYPE (Circle One)*: SB (A) OA
PROJECT #: 25213180.12	SAMPLE INTAKE HEIGHT:	~S` NA for SB
LOCATION: Shame, wit	APPROX PURGE VOLUME:	NA for IA and OA
SAMPLER: S.S.S.	APPROX SAMPLING DEPTH:	N/A NA for IA and OA
EQUIPMENT: Sie prevers	film	

Instrument/Weather Readings

Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading (ppm(ppb))
2/12/16	1200	-29.5	27.3	89	4.6	30.2	30
2/23/16	1200	-3	28-4	92	Calm	30,15	

Summa Canister Information:

Sub-Slab Water Dam Test:

,

No

Canister Size:	1L	(6L)	Test Passed:	Yes
Canister ID#	DH-010		NA FOR AMBIENT A	R SAMPLES
Flow Controller ID#	2231			

General Notes/Observations:

30 Beerkynned ar = ppb

Abbreviations:

PROJECT: VIZC-Shamo	SAMPLE ID: Ar Sumple	TYPE (Circl	e One)*: SB IA QA
PROJECT #: 25213150.12	SAMPLE INTAKE HEIGHT:	~4	NA for SB
LOCATION: Shame, WI	APPROX PURGE VOLUME:	M	NA for IA and OA
SAMPLER: S.S. Th	APPROX SAMPLING DEPTH:	NA	NA for IA and OA
EQUIPMENT: Suc preves for			
- p.(			

Instrument/Weather Readings

Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading (ppm/opb)
2/22/16	1205	-29.5	27.3	89	4-6	30.21	0.0
2/23/16	1205	-4	28.4	92	Calm	30:15	

Summa Canister Information:

Sub-Slab Water Dam Test:

Canister Size:	1L (6L)
Canister ID#	E55-6037
Flow Controller ID#	SN 2227

IPLI	ES		
11- 2-3	EJ	 	 

General Notes/Observations:

Beeksmad ar = 0.0 ppb

Abbreviations:

PROJECT: VIZC- Shame	SAMPLE ID: 721 51 51 Jadoor Ar	TYPE (Circle	e One)*: <b>SB</b> A OA
PROJECT #: 25213180.12	SAMPLE INTAKE HEIGHT:	~ 3`	NA for SB
LOCATION: Share, W2	APPROX PURGE VOLUME:	AMA .	NA for IA and OA
SAMPLER: S.S.	APPROX SAMPLING DEPTH:	NA	NA for IA and OA
EQUIPMENT: Su prime	s for		

Instrument/Weather Readings

Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading (ppm(ppb)
2/2/16	1300	-27.5	27.7	90	Calm	30,19	35
2/23/16	1300	0	29.8	93	Calm	30.11	

Summa Canister Information:

Sub-Slab Water Dam Test:

Canister Size:	1L 6L
Canister ID#	ES5-6048
Flow Controller ID#	5465

Test Passed:	Yes	No
NA - FOR AMBIEN	IT AIR SAMPLES	
In JI OK AMDILIN	II AIL OAIM LLO	

General Notes/Observations:

35 Backgrund ar = ppb

Abbreviations:

# FILE COPY

SCS Engineers - Daily Field Sheet

à.

Project Name:	
Project Numbe	FT: #252131 80,12
Date:	2/12-2/23/16
Location:	Shans w1

#### **SCS Engineers Field Personnel**

						Time		Total	
	Name	Role	Time In	On Site	Off Site	Out	Break	Hours	
1	Stern Smith	Tecu	0730	1100	1415	1730	-	10.0	- challe
2	Stin Smith	Tech	0730	1850	1445	1900	-	10.5.	- 2/23/16
3									
4									

#### SCS Engineers Office/Admin Personnel

			Time		Total
Name	Role	Time In	Out	Break	Hours
		-			
	Name	Name Role	Name     Role     Time In       Image: Image of the state of the		

#### Subcontractor Personnel

Company:\_\_\_\_\_

						Time		Total
	Name	Role	Time In	On Site	Off Site	Out	Break	Hours
1								
2								
3								
4								

Material Quantities	Description	Quantity	Unit
Other:			

#### Regulatory or other personnel on site

Name	Affiliation	On Site	Off Site
1			
2			
3			
4			

	SCS Engineers - Daily Field Sheet
<b>Project Name:</b>	VIZC- Shuno
Project Number:	25213180, 12 Date: 2/2-2/23/16
	Showney WI
-	
Site Description and	d Wenther 2 /
one peschphon and	d Weather: <u>2/22 - Flores, color, 25°F</u> , clady 2/23 - Clady, color, 25°F
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Stortes 5.	mples 721 5+ St - Let who have Set op can in burnet in top
of a stor	I undow AC cut rappose 3° off the grande Statud singles At
707 591 =	Set company to be the basenes approx 3' off the growthe At
Strated Supl	h. Let Showe. > site at 713 st to clerk 251 hr. con was redy and 1100 . Closed
12/13/16-0-	1 site at 713 st to clerk 21hr. con was ready and 1100 . Cloud
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Class	ed proble carried at genre
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ield Sheet Complete	ed by: Steven Smith Signature: A Downth
	Steven Smith Signature: A Amuit 2/22-2/23/16

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### SCS Engineers - Vapor Intrusion Contract Equipment and Materials Usage

Project Name: <u>VIZC-SLame</u> Proj No: <u>252(3) 80 (12</u>

Date: 2/22-2/23/16

Vehicles

Trucks/Vans	Starting Mileage	Ending Mileage	Total Miles	Materials / Exp./Rented Equip.	Quantity
1 for that a charlie	55,124	55,488	364 359		
3	27,568	57,851			
Field Instruments	Full Day	Half Day			
Photo-Ionization Detector (PID) Helium Meter (He)	$\square$	$\bigcirc$			
			-		

Field Sheet Completed by:

Name: Strin Snith

Amie Signature\_

# WSLH Air Canister Sampling Sheet

DNR User ID Project	$\frac{W0NR}{Pm-REVE Joslin}$ Account # RR040 8 $\frac{VIZC-Shume}{*25213180.12}$	- - - Email	md	<u>.</u>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	53718	- - Di	Collected By	608-22 608-22	Page 1 of 1 Date 8/2013 SI-2-SSO SI SI-2-SSO SI SI SI SI SI SI SI SI SI SI SI SI SI
Sample Type:	AR - Outdoor Air Al - Indoor Air SB-Sub-Slab	Address(s)	RLonyde	<u>es</u>	sens.	-22.3 (O-	SPECIAL INS	r used (Y/N) hich Tracer? STRUCTIONS	10-15	52-741.54
	CUSTOMER FIELD # 713 5th st - Indeer Ar 720 5th st - Indeer Ar Outdeer Ar Somple 721 5th st - Indeer Ar 707 5th st - Indeer Ar 713 5th st - Sub Slub 720 5th st - Sub Slub 721 5th st - Sub Slub 721 5th st - Sub Slub	SAMPLE TYPE (AR,AI,SB) AI AI AZ AZ AZ SB	SAMPLE DATE 2/22-2/22/16 2.[23]16	0N 1100 1202 1205 1205 1300 1460 1460 1460 1460 1204 1305	1300	-29.5 -29.5 -27.5 -27 -27 -29	-3	CANISTER NUMBER 255-655 DH-010 E55-6537 E55-655 E55-655 E55-655 E55-650 E55-650 E55-664 DH-007	READING 10 30 0 35 310 467 285	SAMPLER NUMBER 22256 2231 5465 5343 7664 5400 4494 5585
а 1	chain of custody: Relinquished	I du	wet-		Date:	2/22/16	Received:		2	2/24

### ATTACHMENT C

Laboratory Reports



# Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environment	tal Health Divis	sion						
WDNR LAB ID: 1	13133790	NELAP LAB	ID: E37658	EPA LAB	ID: WI0000	)7	WI DATCP ID:	105-415
			WSLH Samp	le: 241072001				
	ort To:	-			Invoice To:			
SCS 2830	ANGDON - SC S ENGINEERS D DAIRY DRIV DISON, WI 53	6 ′E			RON ARNES( WISCONSIN			
					Customer ID:	RR04	18	
Field #:7Project No:VCollection End:2/Collection Start:0:Collected By:SDate Received:2/Date Reported:3/Sample Reason:	/23/2016 11:00 2/22/16 1100 . SMITH /24/2016			ID#: Sample Locatio Sample Descrip Sample Type: Waterbody: Point or Outfall: Sample Depth: Program Code: Region Code: County:	tion:	AIR		
OC-Volatiles								

Analyte		Analysis Method	Result	Units	LOD	LOQ
Prep Date 03/16/16	Analysis Date	03/16/16				
Vinyl chloride		EPA TO-15	ND	ppbv	0.085	0.28
trans-1,2-Dichloroethene		EPA TO-15	ND	ppbv	0.085	0.28
cis-1,2-Dichloroethene		EPA TO-15	ND	ppbv	0.085	0.28
Trichloroethene		EPA TO-15	ND	ppbv	0.085	0.28
Tetrachloroethene		EPA TO-15	ND	ppbv	0.085	0.28

Report ID: 2966967



# **Laboratory Report**

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 241072001

#### List of Abbreviations:

LOD = Level of detection LOQ = Level of quantification ND = None detected. Results are less than the LOD F next to result = Result is between LOD and LOQ Z next to result = Result is between 0 (zero) and LOD if LOD=LOQ, Limits were not statistically derived

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see http://www.slh.wisc.edu/about/compliance/nelac-laboratory-accreditation

Results, LOD and LOQ values have been adjusted for analytical dilutions and percent moisture where applicable.

Results relate only to the items tested.

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The water microbiology unit analyzes samples as received and not all samples are tested for preservation before analysis is performed.

### **Responsible Party**



# Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environme	ental Health Divi	sion					
WDNR LAB ID:	113133790	NELAP LAB	ID: E37658	EPA LAB	ID: WI00007	WI DATCP	PID: 105-415
			WSLH Samp	le: 241072002			
R	eport To: LANGDON - S(				Invoice To: RON ARNESO		
28	CS ENGINEER 30 DAIRY DRIV ADISON, WI 53	/E		,	WISCONSIN D	NR	
					Customer ID:	RR048	
Field #: Project No: Collection End: Collection Start: Collected By: Date Received: Date Reported: Sample Reason	2/23/2016 12:0 02/22/16 1200 S. SMITH 2/24/2016 3/22/2016	)		ID#: Sample Location Sample Descrip Sample Type: Waterbody: Point or Outfall: Sample Depth: Program Code: Region Code: County:	tion:	R	
<b>OC-Volatiles</b>							

Analyte		Analysis Method	Result	Units	LOD	LOQ
Prep Date 03/16/16	Analysis Date	03/16/16				
Vinyl chloride		EPA TO-15	ND	ppbv	0.085	0.28
trans-1,2-Dichloroethene		EPA TO-15	ND	ppbv	0.085	0.28
cis-1,2-Dichloroethene		EPA TO-15	ND	ppbv	0.085	0.28
Trichloroethene		EPA TO-15	0.25F	ppbv	0.085	0.28
Tetrachloroethene		EPA TO-15	ND	ppbv	0.085	0.28

Report ID: 2966967



# **Laboratory Report**

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 241072002

#### List of Abbreviations:

LOD = Level of detection LOQ = Level of quantification ND = None detected. Results are less than the LOD F next to result = Result is between LOD and LOQ Z next to result = Result is between 0 (zero) and LOD if LOD=LOQ, Limits were not statistically derived

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### **Responsible Party**



# Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environme	ental Health Divi	sion						
WDNR LAB ID:	113133790	NELAP LAB	ID: E37658	EPA LAB	ID: WI00007	WI DAT	CP ID:	105-415
			WSLH Samp	le: 241072003				
Re	eport To:				Invoice To:			
R LANGDON - SCS SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718				RON ARNESON WISCONSIN DNR				
					Customer ID:	RR048		
Field #: Project No: Collection End: Collection Start: Collected By: Date Received: Date Reported: Sample Reason	2/23/2016 12:0 :02/22/16 1205 S. SMITH 2/24/2016 3/22/2016	)		ID#: Sample Locatio Sample Descrip Sample Type: Waterbody: Point or Outfall: Sample Depth: Program Code: Region Code: County:	otion: AR-AIR			
OC-Volatiles	5							

Analyte		Analysis Method	Result	Units	LOD	LOQ
Prep Date 03/16/16	Analysis Date	03/16/16				
Vinyl chloride		EPA TO-15	ND	ppbv	0.085	0.28
trans-1,2-Dichloroethene		EPA TO-15	ND	ppbv	0.085	0.28
cis-1,2-Dichloroethene		EPA TO-15	ND	ppbv	0.085	0.28
Trichloroethene		EPA TO-15	ND	ppbv	0.085	0.28
Tetrachloroethene		EPA TO-15	ND	ppbv	0.085	0.28



# Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 241072003

#### List of Abbreviations:

LOD = Level of detection LOQ = Level of quantification ND = None detected. Results are less than the LOD F next to result = Result is between LOD and LOQ Z next to result = Result is between 0 (zero) and LOD if LOD=LOQ, Limits were not statistically derived

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### **Responsible Party**



# Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environme	ntal Health Divi	sion						
WDNR LAB ID:	113133790	NELAP LAB	ID: E37658	EPA LAB	ID: WI0000	7	WI DATCP ID:	105-415
			WSLH Samp	le: 241072004				
	port To:				Invoice To:			
R LANGDON - SCS SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718					RON ARNESC WISCONSIN E			
					Customer ID:	RR04	48	
Field #: Project No: Collection End: Collection Start: Collected By: Date Received: Date Reported: Sample Reason:	2/23/2016 1:00 02/22/16 1300 S. SMITH 2/24/2016 3/22/2016	)		ID#: Sample Locatio Sample Descrip Sample Type: Waterbody: Point or Outfall: Sample Depth: Program Code: Region Code: County:	tion:	IR		
<b>OC-Volatiles</b>								

Analyte		Analysis Method	Result	Units	LOD	LOQ
Prep Date 03/16/16	Analysis Date	03/16/16				
Vinyl chloride		EPA TO-15	ND	ppbv	0.085	0.28
trans-1,2-Dichloroethene		EPA TO-15	ND	ppbv	0.085	0.28
cis-1,2-Dichloroethene		EPA TO-15	ND	ppbv	0.085	0.28
Trichloroethene		EPA TO-15	ND	ppbv	0.085	0.28
Tetrachloroethene		EPA TO-15	ND	ppbv	0.085	0.28



# Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 241072004

#### List of Abbreviations:

LOD = Level of detection LOQ = Level of quantification ND = None detected. Results are less than the LOD F next to result = Result is between LOD and LOQ Z next to result = Result is between 0 (zero) and LOD if LOD=LOQ, Limits were not statistically derived

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### **Responsible Party**



# Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environme	ntal Health Divi	sion						
WDNR LAB ID:	113133790	NELAP LAB	ID: E37658	EPA LAB	ID: WIO	0007	WI DATCP ID:	105-415
			WSLH Samp	le: 241072005				
Re	port To:				Invoice To			
R LANGDON - SCS SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718			RON ARNESON WISCONSIN DNR					
					Customer	ID: RR(	048	
Field #: Project No: Collection End: Collection Start: Collected By: Date Received: Date Reported: Sample Reason:	2/23/2016 2:00 02/22/16 1400 S. SMITH 2/24/2016 3/22/2016	)		ID#: Sample Locatio Sample Descrip Sample Type: Waterbody: Point or Outfall: Sample Depth: Program Code: Region Code: County:	otion: AI-INDOC	DR AIR		
<b>OC-Volatiles</b>								

Analyte		Analysis Method	Result	Units	LOD	LOQ
Prep Date 03/18/16	Analysis Date	03/18/16				
Vinyl chloride		EPA TO-15	ND	ppbv	0.085	0.28
trans-1,2-Dichloroethene		EPA TO-15	ND	ppbv	0.085	0.28
cis-1,2-Dichloroethene		EPA TO-15	ND	ppbv	0.085	0.28
Trichloroethene		EPA TO-15	ND	ppbv	0.085	0.28
Tetrachloroethene		EPA TO-15	ND	ppbv	0.085	0.28



# Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 241072005

#### List of Abbreviations:

LOD = Level of detection LOQ = Level of quantification ND = None detected. Results are less than the LOD F next to result = Result is between LOD and LOQ Z next to result = Result is between 0 (zero) and LOD if LOD=LOQ, Limits were not statistically derived

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### **Responsible Party**



# Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Div	rision			
WDNR LAB ID: 113133790	NELAP LAB ID: E37658	EPA LAB ID:	WI00007	WI DATCP ID: 105-415
	WSLH Sample	: 241072006		
Report To: R LANGDON - S SCS ENGINEER 2830 DAIRY DRI MADISON, WI 5	S VE	RON WISC	ce To: ARNESON CONSIN DN omer ID:	
Field #:713 5TH ST -Project No:VIZC-SHAUNCollection End:2/23/2016 11:3Collection Start:2/23/16 1107Collected By:S. SMITHDate Received:2/24/2016Date Reported:3/22/2016Sample Reason:	D S 37:00 AM S W P S P R	D#: ample Location: ample Description: ample Type: SB-S /aterbody: oint or Outfall: ample Depth: rogram Code: egion Code: ounty:		
OC-Volatiles				

Analyte		Analysis Method	Result	Units	LOD	LOQ
Prep Date 03/18/16	Analysis Date	03/18/16				
Trichloroethene		EPA TO-15	ND	ppbv	0.085	0.28
Tetrachloroethene		EPA TO-15	0.22F	ppbv	0.085	0.28
Vinyl chloride		EPA TO-15	ND	ppbv	0.085	0.28
trans-1,2-Dichloroethe	ene	EPA TO-15	ND	ppbv	0.085	0.28
cis-1,2-Dichloroethen	e	EPA TO-15	ND	ppbv	0.085	0.28



# Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 241072006

#### List of Abbreviations:

LOD = Level of detection LOQ = Level of quantification ND = None detected. Results are less than the LOD F next to result = Result is between LOD and LOQ Z next to result = Result is between 0 (zero) and LOD if LOD=LOQ, Limits were not statistically derived

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### **Responsible Party**



# Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Div	rision				
WDNR LAB ID: 113133790	NELAP LAB ID: E37658	EPA LAB	ID: WI00007	WI DATCP ID:	105-415
	WSLH Sample	: 241072007			
Report To: R LANGDON - S SCS ENGINEER 2830 DAIRY DRI MADISON, WI 5	S VE		Invoice To: RON ARNESON WISCONSIN DN	NR	
			Customer ID:	RR048	
Field #:720 5TH ST -Project No:VIZC-SHAUNOCollection End:2/23/2016 12:3Collection Start:02/23/16 1204Collected By:S. SMITHDate Received:2/24/2016Date Reported:3/22/2016Sample Reason:	D S 34:00 PM S V P S P R R	D#: ample Locatio ample Descrip ample Type: /aterbody: oint or Outfall: ample Depth: rogram Code: egion Code:	otion: SB-SUB SLAB		
OC-Volatiles					

Analyte		Analysis Method	Result	Units	LOD	LOQ
Prep Date 03/18/16	Analysis Date	03/18/16				
Vinyl chloride		EPA TO-15	ND	ppbv	0.085	0.28
trans-1,2-Dichloroethene		EPA TO-15	ND	ppbv	0.085	0.28
cis-1,2-Dichloroethene		EPA TO-15	ND	ppbv	0.085	0.28
Trichloroethene		EPA TO-15	ND	ppbv	0.085	0.28
Tetrachloroethene		EPA TO-15	11	ppbv	0.085	0.28



# Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 241072007

#### List of Abbreviations:

LOD = Level of detection LOQ = Level of quantification ND = None detected. Results are less than the LOD F next to result = Result is between LOD and LOQ Z next to result = Result is between 0 (zero) and LOD if LOD=LOQ, Limits were not statistically derived

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### **Responsible Party**



# Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Divi	sion				
WDNR LAB ID: 113133790	NELAP LAB ID: E37658	EPA LAB ID:	WI00007	WI DATCP ID:	105-415
	WSLH Sample	e: 241072008			
Report To:		Invoi	ice To:		
R LANGDON - SO SCS ENGINEERS 2830 DAIRY DRIV MADISON, WI 53	S /E		I ARNESON CONSIN DN		
		Cust	omer ID:	RR048	
Field #:721 5TH ST - 5Project No:VIZC-SHAUNOCollection End:2/23/2016 1:33Collection Start:02/23/16 1303Collected By:S. SMITHDate Received:2/24/2016Date Reported:3/22/2016Sample Reason:	) 5 ::00 PM 5 V F S F F F	D#: Sample Location: Sample Description: Sample Type: SB-3 Vaterbody: Point or Outfall: Sample Depth: Program Code: Region Code: County:			
OC-Volatiles					

Analyte		Analysis Method	Result	Units	LOD	LOQ
Prep Date 03/18/16	Analysis Date	03/18/16				
Vinyl chloride		EPA TO-15	ND	ppbv	0.085	0.28
trans-1,2-Dichloroethene		EPA TO-15	ND	ppbv	0.085	0.28
cis-1,2-Dichloroethene		EPA TO-15	ND	ppbv	0.085	0.28
Trichloroethene		EPA TO-15	ND	ppbv	0.085	0.28
Tetrachloroethene		EPA TO-15	6.6	ppbv	0.085	0.28



# **Laboratory Report**

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 241072008

#### List of Abbreviations:

LOD = Level of detection LOQ = Level of quantification ND = None detected. Results are less than the LOD F next to result = Result is between LOD and LOQ Z next to result = Result is between 0 (zero) and LOD if LOD=LOQ, Limits were not statistically derived

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### **Responsible Party**



# Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Div	rision							
WDNR LAB ID: 113133790	NELAP LAB ID: E37658	EPA LAB	ID: WI00007	WI DATCP ID:	105-415			
WSLH Sample: 241072009								
Report To: R LANGDON - S	CS		Invoice To: RON ARNESON	J				
SCS ENGINEER 2830 DAIRY DRI MADISON, WI 5	S VE		WISCONSIN DI					
			Customer ID:	RR048				
Field #:707 5TH ST -Project No:VIZC-SHAUNGCollection End:2/23/2016 2:33Collection Start:02/23/16 1405Collected By:S. SMITHDate Received:2/24/2016Date Reported:3/22/2016Sample Reason:	D 5:00 PM	D#: Sample Location Sample Descrip Sample Type: Waterbody: Point or Outfall: Sample Depth: Program Code: Region Code: County:	tion: SB-SUB SLAB					
OC-Volatiles								

Analyte		Analysis Method	Result	Units	LOD	LOQ
Prep Date 03/18/16	Analysis Date	03/18/16				
Vinyl chloride		EPA TO-15	ND	ppbv	0.43	1.4
trans-1,2-Dichloroethene		EPA TO-15	ND	ppbv	0.43	1.4
cis-1,2-Dichloroethene		EPA TO-15	ND	ppbv	0.43	1.4
Trichloroethene		EPA TO-15	1.4	ppbv	0.43	1.4
Tetrachloroethene		EPA TO-15	1.8	ppbv	0.43	1.4



# Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 241072009

#### List of Abbreviations:

LOD = Level of detection LOQ = Level of quantification ND = None detected. Results are less than the LOD F next to result = Result is between LOD and LOQ Z next to result = Result is between 0 (zero) and LOD if LOD=LOQ, Limits were not statistically derived

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