### SCS ENGINEERS

July 29, 2016 File No. 25213180.14

Mr. Jon Heberer Wisconsin Department of Natural Resources 3911 Fish Hatchery Road Fitchburg, WI 53711

Subject: Summary of Vapor Intrusion Assessment Sampling

Kessler Cleaners Project, Cuba City, Wisconsin

BRRTS #02-22-543811

Dear Mr. Heberer:

SCS Engineers (SCS) is providing the following summary of a vapor intrusion assessment performed for the residences at 204 South Main Street and 211 South Washington Street, Cuba City, Wisconsin (**Figure 1**). The work was performed under the Wisconsin Department of Natural Resources (WDNR) Vapor Intrusion Zone Contract (VIZC) for the WDNR's Kessler Cleaners project.

Assessment findings indicate that volatile organic compounds (VOCs) are present at 204 South Main Street at concentrations in excess of residential indoor vapor action levels (VALs) and subslab vapor risk screening levels (VRSLs).

#### METHODS

SCS performed sub-slab, indoor air, and outdoor (background) air sampling work on July 12, 2016 and July 13, 2016. Indoor air and sub-slab air samples were collected for each of the above-noted properties. The outdoor air (background) sample was collected from the 211 South Washington Street property.

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 tetrachloroethene (PCE), trichloroethene (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 and sketches of sample locations are included in **Attachment B**. Laboratory reports are included in **Attachment C** and summarized in **Table 1** and **Table 2**. Sampling results are summarized below:

Mr. Jon Heberer July 29, 2016 Page 2

- TCE and/or PCE were detected in all of the sub-slab air samples collected from 204 South Main Street at concentrations in excess of residential VRSLs.
- PCE was detected in the 211 South Washington Street sub-slab air sample, but the concentration did not exceed the residential VRSL.
- No other VOCs were detected in the sub-slab air samples.
- PCE was detected in the indoor air sample from 204 South Main Street at a concentration in excess of the residential VAL.
- PCE and trans-1,2-DCE were detected in the indoor air sample from 211 South Washington Street. The PCE concentration in the indoor air sample from 211 South Washington Street did not exceed the residential VAL. There is not a VAL for trans-1,2-DCE.
- No other VOCs were detected in the indoor air samples.
- No VOCs were detected in the outdoor air (background) sample.

Please contact Robert Langdon at 608-216-7329 if you have any questions regarding this letter.

Sincerely,

Robert Langdon Senior Project Manager

Pobet E Jang !

SCS ENGINEERS

Jaclyn DeBruyne Associate Scientist

SCS ENGINEERS

Jaki DiBym

JD/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

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## **TABLES**

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

## Table 1. Sub-Slab Vapor Analytical Results Summary Kessler Cleaners, Cuba City, WI / SCS Engineers Project #25213180.14

(Results are in ppbV)

Sample	Location	Date	Lab Notes	Tetrachloroethylene (PCE)	Trichloroethylene (TCE)	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
Sub Slab #1 Front	204 S. Main Street	7/13/2016		11,000	<170	<170	<170	<170
Sub Slab #2 Back	204 S. Main Street	7/13/2016		<u>230</u>	<4.3	<4.3	<4.3	<4.3
Sub Slab #3 Garage	204 S. Main Street	7/13/2016		220	<u>30</u>	<4.3	<4.3	<4.3
211 Wash Sub Slab	211 S. Washington Street	7/13/2016		96	<2.1	<2.1	<2.1	<2.1
Vapor Risk Screening Le	Vapor Risk Screening Level (Residential Building)				13	NE	NE	22

#### Abbreviations:

ppbV = parts per billion by volume cis-1,2-DCE = cis-1,2-dichloroethylene -- = not applicable

trans-1,2-DCE = trans-1,2-dichloroethylene NE = not established

#### 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 from Wisconsin Department of Natural Resources Quick Look-Up Table, which is based on May 2016 USEPA Regional Screening Level Tables.
- 3. **Bold+underlined** values meet or exceed Vapor Risk Screening Levels.

#### Lab Notes:

None

Created by:	LMH	Date: 7/22/2016
Last revision by:	LMH	Date: 7/22/2016
Checked by:	REL	Date: 7/25/2016

 $I: \ 25213180 \ 25213180.14 \ Data \ Tables \ [Sub-Slab \ Vapor \ Analytical \ Results.xls] Sub-Slab \ Results \ Analytical \ Analytical \ Results \ Analytical \ Results \ Analytical \ Results \ Analytical \ Results \ Analytical \ Analytical \ Results \ Analytical \ Results \ Analytical \ Results \ Analytical \ Result$ 

## Table 2. Indoor Air and Background Air Analytical Results Summary Kessler Cleaners, Cuba City, WI / SCS Engineers Project #25213180.14

(Results are in ppbV)

Sample	Location	Date	Lab Notes	Tetrachloroethylene (PCE)	Trichloroethylene (TCE)	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
204 S. Main 24 HR	204 S. Main Street	7/12/2016		<u>12</u>	<0.43	<0.43	<0.43	<0.43
211 S. Wash 24 HR	211 S. Washington Street	7/12/2016		0.16 <sup>F</sup>	<0.085	<0.085	0.10 <sup>F</sup>	<0.085
Outdoor Air	211 S. Washington Street	7/12/2016		<0.085	<0.085	<0.085	<0.085	<0.085
Indoor Air Vapor Action Level (Residential Building)			6.2	0.39	NE	NE	0.65	

Abbreviations:

ppbV = parts per billion by volume

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

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

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. Vapor Action Levels are from Wisconsin Department of Natural Resources Quick Look-Up Table, which is based on May 2016 USEPA Regional Screening Level Tables.
- 3. **Bold** & underlined values exceed Indoor Air Vapor Action Levels.

#### Lab Notes:

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

Created by:	LMH	Date: 7/22/2016
Last revision by:	LMH	Date: 7/22/2016
Checked by:	REL	Date: 7/25/2016

## FIGURE 1

Vapor Assessment Sampling Locations

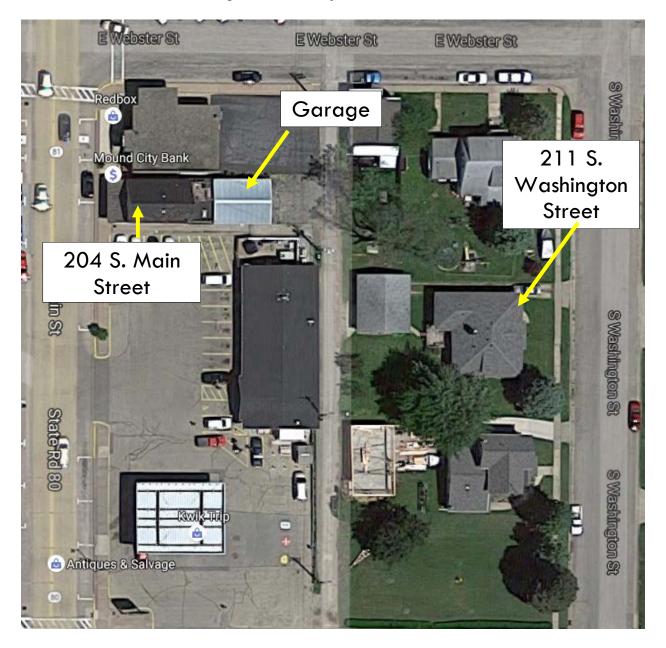


Figure 1. Vapor Assessment Sampling Locations 204 S. East Street and 211 S. Washington Street Cuba City, Wisconsin

## **ATTACHMENT A**

**Photos** 



**Photo 1:** 204 South Main Street indoor air sample – July 12, 2016.



**Photo 2:** 204 South Main Street sub-slab sample (#1 Front) – July 13, 2016.



**Photo 3:** 204 South Main Street sub slab sample (#2 Back) – July 13, 2016.



**Photo 4:** 204 South Main Street sub-slab sample (#3 Garage) – July 13, 2016.



**Photo 5:** 211 South Washington Street indoor air sample – July 12, 2016.



**Photo 6:** 211 South Washington Street outdoor air sample – July 12, 2016.



**Photo 7:** 211 South Washington Street sub slab sample – July 13, 2016.

## **ATTACHMENT B**

Field and Laboratory Chain of Custody Forms



## SCS Engineers - Daily Field Sheet

, ct Name:	VIZC-CSCA	
Project Number:	25213180.14	Date: 7/12 - 7/13/16
Location:	Cobo City, WT	
SCS Engineers Fie	old Personnel	

SCS	Engineers	Field	Personnel
-----	-----------	-------	-----------

Name	Role	Time In	On Site	Off Site	Time Out		Total Hours
1 Stra Smith	Tech	0800	1015	1330	1530	-	7.5 - 7/12 h
2 Strong Snith	Trech	0800	1020	1415	1600		8.0 -7 /3/1
3							
4							

#### SCS Engineers Office/Admin Personnel

	Name	Role	Time In	Time Out	Break	Total Hours
1						
2						
3						
4						
5						

Subcontractor Personnel	Compa	ny:		11001605			
Name	Role	Time In	On Site	Off Site	Time Out	Break	Total Hours
1							
2	E ELECTION AND ADDRESS.			Barrier State			
3							
4				CALL OF STREET			100000000000000000000000000000000000000
Material Quantities  Description		Quantity	Unit				
	是某些主要						
Market Market State of	PER PER PER PER	N SECTION					
Other:		NAME OF STREET					

#### Regulatory or Other Personnel on Site

	Name	Affiliation	On Site	Off Site
1				
2				
3				
4				

ocs Engineers - vapor intrusion Contrac	quipittotit c	illu materia	15 USauc		
Project Name: VIZC - CJ	~ C.ty				
Proj No: 25213186 -14				Date: 7/12-7/12/16	
/ehicles					
Trucks/Vans	Starting Mileage	Ending Mileage	Total Miles	Materials / Exp./Rented Equip.	Quantity
1 For # +29 7/12/16 2 For # +29 7/13/16	63,332	63,502	170		
Field Instruments	Full Day	Half Day			
Photo-Ionization Detector (PID)	1(1)		1		
Helium Meter (He)					
			-		
Field Sheet Completed by:					
Name: Steven 5-th			Signature	Samuel	

### SCS Engineers - Daily Field Sheet

Project Name: _	VIEC- Color City
Project Number:	25213180,14 Date: 7/12/16
Location:	Coba Coty, wI
Site Description and	5.3
Summary of Activitie	25/7/2/4/- 2 1 1 1 1 1 1 2 2 2 2 1 2 1 2 1 2 1
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Const	the grand set up the Orthor are suple on the back down
off the	and top of my latter at approx. 3.5 Fit off the dick, approx 6's
	Janes of the str.
7/13/16/- 0	ns. K. Jan and Linda Hatters (?) DNR on steasell.
Collected of	The 2dhr super Comed in geen Onled/institled the
55565	#1 Frank sough, Set up for the day (set in texts and)
Statel.	# from south set up for the dod / sht in tests = pynd, some PID red of are very high - 32 ppm mould
ger to	5631 #7 Bare 10cm , 5ht pobe #1, palled
100	The second the track of the or take of the
Stocket	suple may low PDO reduce, march our to
the gar	suple made low PDD ready , march gar to
Caroni	. Set so for Hood on / sut in texts = facted , Hoodon
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ate:	71(3)16
5013180\5 \15	

## Vapor Assessment

		S	sample	Collec	tion Log		
PROJECT: V	72c-	Cobac.	S	AMPLE ID:	204 S.M.	TYPE (Circ	le One)*: <b>SB AI AR</b>
PROJECT #:	25713	180-14	SA	AMPLE INTA	KE HEIGHT:	~3.5	NA for SB
LOCATION:	Chac	:- b, w1	A	PPROX PUR	GE VOLUME:		NA for Al and AR
SAMPLER:	SIS	man they	A	PPROX SAM	PLING DEPTH:		NA for Al and AR
Sub-Slab Samp Kit #: Sub-Slab Samp Manifold #:	1					4 14	NA for AI and AR
PID #: PP	SRAE	ngs:	7				
Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading
7/12/16	1050	-27	67.8	99	5.8	29.78	16
7/13/16	1050	-0.5	81.5	83	10.4	29.86	

C	pm	Information.
Summa	Conister	Intormation.

Canister Size:	1L (6L)	Test Passed:
Canister ID#	5-6026	NAT
Flow Controller ID#	2228	

#### Sub-Slab Water Dam Test:

10.4

est Passed:	Yes	No
( , 1)		
(NA)	***************************************	

General Notes/Observations:

Backgrand a		- 663	·		
	Tanana (ana ana ana ana ana ana ana ana a		220mm	10 144 (148)	

Abbreviations:

NA = Not Applicable

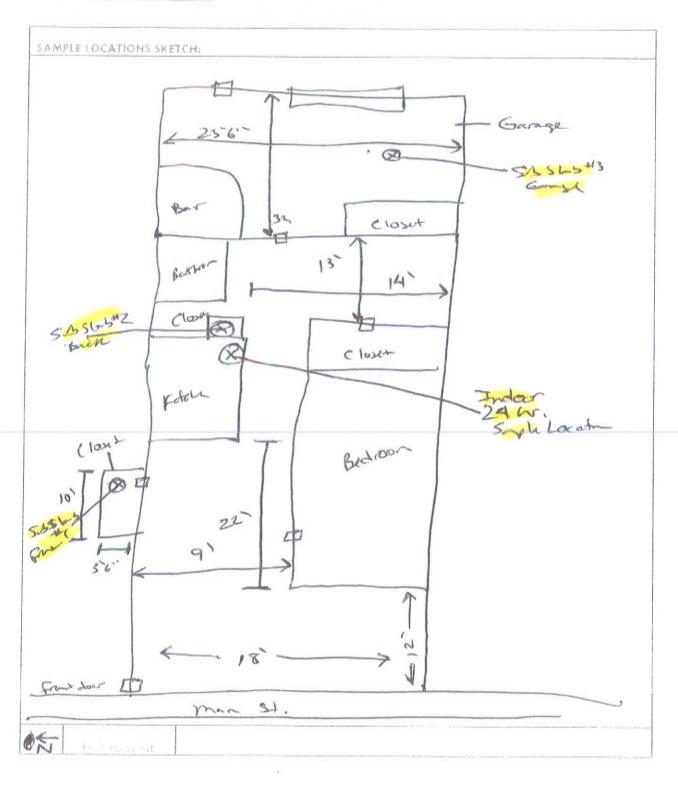
SB = Sub-Slab

Al = Indoor Air

AR = Outdoor Air

PROJETT NO 25213180-14 NAMELI LOCATION/ID 204 5. M. St.

DATE 7/12-7/13/16



### Vapor Assessment Sample Collection Log

AMPLEID: 12 Lawylos	TYPE (Circle	One)*: 5B A	I AR
AMPLE INTAKE HEIGHT:	5``	NA	for SB
APPROX PURGE VOLUME:	NA	NA for Al ar	d AR
PPROX SAMPLING DEPTH:	M	NA for Al ar	d AR
		NA for Al an	d AR
		NA for Al an	d AR
,			
	AMPLE ID: 2 CLT  AMPLE INTAKE HEIGHT:  APPROX PURGE VOLUME:  APPROX SAMPLING DEPTH:	AMPLE INTAKE HEIGHT: 5	AMPLE INTAKE HEIGHT: 5 NA 1

Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading (ppm(ppb)
7/12/16	12.58	-29.5	67.8	25	5.8	29.78	132
71.3)16	1258	-3	82-9	78	11.5	29.87	

Sub-Slab Water Dam Test:

Summa	Canister	Information

Canister Size:	1 L	(6L)	Test Passed:	Yes	No
Canister ID#	ESS-605	`I	NA	٢	
Flow Controller ID#	SN 22	27			

Genera	Notes	Observations:
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onc Karon	2 0117 2	132	2003	
,			1.4	
		T-1100		

Abbreviations:

NA = Not Applicable

SB = Sub-Slab

Al = Indoor Air

AR = Outdoor Air

#### Vapor Assessment Sample Collection Log

211 5. Wash

PROJECT #: 25713150-14	SAMPLE INTAKE HEIGHT: 3 5	NA for SE
LOCATION: ( bac- y w1	APPROX PURGE VOLUME:	NA for Al and AR
SAMPLER: 5.5 th	APPROX SAMPLING DEPTH: NA	NA for Al and AR
Sub-Slab Sample Kit #:		NA for Al and AR
Sub-Slab Sample Manifold #:	,	NA for Al and AR

Instrument/Weather Readings:

Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading (ppm/ppb)	
7/12/16	1306	-25.5	67.8	99	5.8	29.78	50	
7/13/16	1306	0	829	78	11.5	29.87		

#### Summa Canister Information:

Sub-Slab Water Dam Test:

Canister Size: 1L 6L	Test Passed: Yes No
Canister ID# £55 - 60 0 8	NA
Flow Controller ID# 5586	

General Notes/Observations:

Backgrand air = 50 pps

Abbreviations:

NA = Not Applicable SB = Sub-Slab

Al = Indoor Air

AR = Outdoor Air

PROJECT NO. 25213180.14 NAMPLE LOCATION/ID 215.Washington

SAMPLE LOCATIONS SKETCH: privering Hase Deck DOMESTICAL SCALL

## Vapor Assessment

Sample Collection Log 204 5. Main

PROJECT: VIZC-Cobacity	SAMPLE ID: 54 3 LIST	YTYPE (Circle	one)*: SB AI AR
PROJECT #: 25713180-14	SAMPLE INTAKE HEIGHT:		N) for SB
LOCATION: (bac-ty, w1	APPROX PURGE VOLUME:	3.54	NA for Al and AR
SAMPLER: 5-5-14	APPROX SAMPLING DEPTH:	1200	NA for Al and AR
Sub-Slab Sample Kit #:			NA for AI and AR
Sub-Slab Sample Manifold #:			NA for Al and AR
PID#: PPBRAE PID			

#### Instrument/Weather Readings:

Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading	
7/13/16	1105	-27	81.5	83	10.4	29.86	32.6)	
7/13/16	1135	-2	82.4	78	9.2	29.86		

#### Summa Canister Information:

Sub-Slab Water Dam Test:

Canister Size:	1L (6L)	Test Passed:	Yes No
Canister ID#	ESS-6009		
Flow Controller ID#	5347		

General Notes/Observations:

Backgrand air = 18 ppb
Purge PID randing 18 voy high, in pp-

Abbreviations:

NA = Not Applicable

SB = Sub-Slab

Al = Indoor Air

AR = Outdoor Air

vapor Assessment Sample Collection Log 704 5. Wash TYPE (Circle One)\*: SB AI AR PROJECT: VIZC-Cabacity 25713180-14 SAMPLE INTAKE HEIGHT: NA for SB 3.5L APPROX PURGE VOLUME: NA for Al and AR APPROX SAMPLING DEPTH: NA for Al and AR NA for Al and AR

NA for Al and AR

Manifold #: PID #:

PROJECT #:

LOCATION:

SAMPLER:

Kit #:

Sub-Slab Sample

Sub-Slab Sample

Instrument/Weather Readings:

Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading (ppm/ppb)	
7/13/16	1148	-26	824	78	9.2	29.86	1185	
71.366	1218	-1	82-8	76	12-7	29.86		

#### Summa Canister Information:

Sub-Slab Water Dam Test:

Canister Size:	IL (6L)	Test Passed: (Yes)	No
Canister ID# E	55-6059	And the state of t	
low Controller ID#	5585		
General Notes/Observa	tions		
	ntions:	pps	
General Notes/Observa		pps	

Abbreviations:

NA = Not Applicable

SB = Sub-Slab

Al = Indoor Air

AR = Outdoor Air

## Vapor Assessment

1 5 Malin

Yes

No

		:	Sample	Collec	tion Log	204	7. 1
PROJECT: \	リエヱcー	Cuba C.	Si	AMPLE ID:	56565 H3		le One)*: SB AI AI
PROJECT #:	25713	150 -14	S	AMPLE INTA	KE HEIGHT:		NA for SI
LOCATION:	Chac	-b, w1	. A	PPROX PUR	GE VOLUME:	3.54	NA for Al and Al
SAMPLER:		mits	A	PPROX SAM	PLING DEPTH:	121	NA for Al and Al
Sub-Slab San Kit #:	nple \						NA for Al and Al
Sub-Slab Sam Manifold #:	nple (						NA for Al and Al
PID #: P	BRAE	PID					
Instrument/We	eather Readi	ngs:					
Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading
- (12 )10	1275	-28	527 52	74	12.2	26 51	1725

Summa Canister Information:

**Canister Size:** 

Sub-Slab Water Dam Test:

11,5

**Test Passed:** 

ow Controller ID#		
ow comfolier 10#	5474	

Abbreviations:

NA = Not Applicable

SB = Sub-Slab

11.

(6L

Al = Indoor Air

AR = Outdoor Air

## Vapor Assessment Sample Collection Log

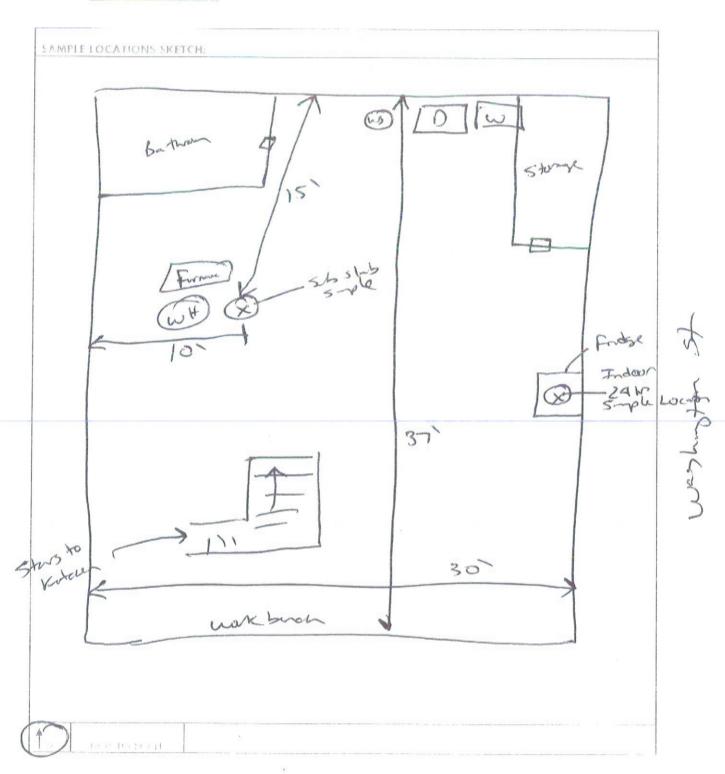
		TO DO STORE		4		
12c-	Cuba C.	SA	AMPLE ID: 2	Mirah-	SAILSTYPE (Circle	e One)*: SB Al A
25713	180 -14	SA	MPLE INTAI	CE HEIGHT:		NA for S
Chac	-h, w1	AI	PPROX PURC	SE VOLUME:	3,52	NA for Al and Al
5.5	, ,	1	PPROX SAM	PLING DEPTH:	: 12"	NA for Al and Al
1						NA for Al and Al
1						NA for Al and Al
BRAE	PID					
	ngs:  Canister		Relative		Barometric	
Time	(" of Hg)	Temp (°F)	Humidity (%)	Air Speed (mph)	Pressure (" of Hg)	PID Reading (ppm(ppb)
1330	-30	82.9	78	11.5	29.87	531
1900		82-6	76	ह,।	29,82	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
r Information	1:		Sub-	Slab Water D	am Test:	
	1L	(6L)	Tes	t Passed:	Yès	) No
C	11-016	,				
r ID#	5834	1		2000 a 200 - 200 200 200 200 200 200 200 200 2		
		210	pps			
icable S	SB = Sub-Slab					
	25713 Chacco SSple I ple I SLAE cather Readin Time I330 J400 er Information Cer ID#	25713180.14  (bachy with ple 1)  S. S. With ple 1  S. S. With ple	25713180-14 SA  (	257(3) 80 14 SAMPLE INTAK  (	SAMPLE INTAKE HEIGHT:  (bach, wl Approx purge volume:  S.S. Approx Sampling Depth  ple  ple  Canister Vacuum Temp ("of Hg) ("F) (%)  1330 -30 829 78 11.5  1400 -1 82-6 76 8.1  Sub-Slab Water D  Test Passed:  or ID# 583-4  (Observations:	SAMPLE INTAKE HEIGHT:  APPROX PURGE VOLUME: 3.52  APPROX SAMPLING DEPTH: 12  Ple  APPROX SAMPLING DEPTH: 12  Canister Temp Humidity Air Speed ("of Hg) ("F) ("W) (mph) ("of Hg) ("of Hg) ("of Hg)  1330 -30 829 78 11.5 29.87  1400 -1 82.6 76 8.1 29.82  Or Information:  Sub-Slab Water Dam Test:  Test Passed: Yes  APPROX SAMPLING DEPTH: 12  Barometric Pressure ("of Hg)  Test Passed: Yes  APPROX SAMPLING DEPTH: 12  Barometric Pressure  Test Passed: Yes  APPROX SAMPLING DEPTH: 12  Test Passed: Yes

Al = Indoor Air AR = Outdoor Air

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PROJECTNO. 25213180-14 :AMPHITOCAHONAN 2117 Weshington

DATE



ESS Organic Che WSLH Air Canis	mistry ster Sampling Sheet								Effective	Page 1 of 1 Date 8/2013
Bill To	SCS Engineers	Report To	SCS Engine	ers				Phone #	(608) 2	24-2830
	2830 Dairy Dr.		2830 Dairy					FAX#	(000) 2	2030
	Madison, WI 53718		Madison, V		8		-	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		4 1
		8.5				1	-	Collected By	< 0	111
NR User ID/Horizon #:	12858						-	ite Sampled		~ H
Project	VIZC-Com Cty	Email	stevensn	nith@s	csengir	neers.com	50	ite sampieu	7/12	/113/16
P.O. #	Project # 25213180-14	Address(s)				ers.com	Trace	r used (Y/N)		3
	1						-	nich Tracer?	- M	0
Sample Type:	AR - Outdoor Air							TRUCTIONS:	2711	
	Al-indoor Air					- The state of the	J. ECHTE IIVS	TO15 Full Li		
	SB-Sub-Slab						~	TO15 Dry Cl	- 1	tlict
							_	1013 DIY C	earier/3ilu	LLIST
LAB USE ONLY									(. )	Flo
		SAMPLE				4			(ppb)	Cordalle
WSLH SAMPLE		TYPE	SAMPLE	TIME	TIME <sup>2</sup>	INITIAL	FINAL	CANISTER	PID	SAMPLER
#	CUSTOMER FIELD #	(AR,AI,SB)	DATE	ON	OFF	PRESSURE	PRESSURE	NUMBER	READING	NUMBER
	2045. Man 24Hr	AI	7/12-7/13	1050	1050	-27	-0.5	ESS-6026	16	2228
2115	122 Wash. 24 Hr.	1		1258	1258	-29.5		E55-6051	132	SN 2227
THE !	outdear Arr	AR	1	1306	1306	-25,5	0	E))-600 8	50	5586
7/22/16	Sub Slub #1 Front	53	7/13	1105	1135	-27	-2	E35-6009		
1/00/10	Sh slas # 2 Back			1148	1218	-26	-1	E55-6059	1185	5582
	Sub Slab #3 Garage			1225	1255	-28	-3	E33-6032	1735	5474
2115.	122 wash 506 slab	1	1	1330	Hoo	-30	-1	100 Hi (1	531	5834
021						1				
Pier										
3/22/16										
11 1										
						1				
						1				
						1	5			11
										1
	chain of custody: Relinquished	1 A	mst		Date	Thalic	Received:	Pil	V	R
		-	-		15	-11:17		-0	420	

1 Sub Slas # 1 Front PID reading = 32.61 ppm

## **ATTACHMENT C**

Laboratory Reports



## **Laboratory Report**

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

**Environmental Health Division** 

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 266157001

Report To:

ROBERT LANGDON SCS ENGINEERS 2830 DAIRY DR MADISON, WI 53718 Invoice To:

ROBERT LANGDON SCS ENGINEERS 2830 DAIRY DR MADISON, WI 53718 Customer ID: 12858

Field #: 204 S MAIN 24 HR ID#:

Project No: 25213180-14 Sample Location: Collection End: 7/13/2016 10:50:00 AM Sample Description:

Collection Start: 07/12/16 10:50 Sample Type: AI-INDOOR AIR

Collected By: S SMITH Waterbody:
Date Received: 7/14/2016 Point or Outfall:
Date Reported: 7/25/2016 Sample Depth:
Sample Reason: Program Code:
Region Code:

County:

#### **OC-Volatiles**

Analyte		Analysis Method	Result	Units	LOD	LOQ
Prep Date 07/19/16	Analysis Date	07/19/16				
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	ND	ppbv	0.43	1.4
Tetrachloroethene		EPA TO-15	12	ppbv	0.43	1.4

Report ID: 3287581 Page 1 of 14 Report Rev: 0000.25.2.WSLH.0



## **Laboratory Report**

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

**Environmental Health Division** 

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 266157001

#### **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.

This Laboratory Report shall not be reproduced except in full, without written approval of the laboratory.

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

#### **Previous Reports**

This sample was previously reported under the following report ID(s): 3276576

#### **Responsible Party**

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262 Inorganic Chemistry: Tracy Hanke, Lab Manager, 608-224-6270 Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282 Organic Chemistry: Al Spallato, Lab Manager, 608-224-6269

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251

Environmental Toxicology: Dave Webb, Lab Manager, 608-224-6200

Report ID: 3287581 Page 2 of 14 Report Rev: 0000.25.2.WSLH.0



## **Laboratory Report**

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

**Environmental Health Division** 

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 266157002

Report To:

ROBERT LANGDON SCS ENGINEERS 2830 DAIRY DR MADISON, WI 53718 Invoice To:

ROBERT LANGDON SCS ENGINEERS 2830 DAIRY DR MADISON, WI 53718 Customer ID: 12858

Field #: 211 S. WASH 24 HR ID#:

Project No: 25213180-14 Sample Location: Collection End: 7/13/2016 12:58:00 PM Sample Description:

Collection Start: 07/12/16 12:58 Sample Type: AI-INDOOR AIR

Collected By: S SMITH Waterbody:
Date Received: 7/14/2016 Point or Outfall:
Date Reported: 7/25/2016 Sample Depth:
Sample Reason: Program Code:
Region Code:

County:

#### **OC-Volatiles**

Analyte		Analysis Method	Result	Units	LOD	LOQ
Prep Date 07/18/16	Analysis Date	07/18/16				
Vinyl chloride		EPA TO-15	ND	ppbv	0.085	0.28
trans-1,2-Dichloroethene		EPA TO-15	0.10F	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	0.16F	ppbv	0.085	0.28

Report ID: 3287581 Page 3 of 14 Report Rev: 0000.25.2.WSLH.0



## **Laboratory Report**

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

**Environmental Health Division** 

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 266157002

#### **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.

This Laboratory Report shall not be reproduced except in full, without written approval of the laboratory.

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

#### **Previous Reports**

This sample was previously reported under the following report ID(s): 3276576

#### **Responsible Party**

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262 Inorganic Chemistry: Tracy Hanke, Lab Manager, 608-224-6270 Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282 Organic Chemistry: Al Spallato, Lab Manager, 608-224-6269

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251

Environmental Toxicology: Dave Webb, Lab Manager, 608-224-6200

Report ID: 3287581 Page 4 of 14 Report Rev: 0000.25.2.WSLH.0



## **Laboratory Report**

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

**Environmental Health Division** 

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 266157003

Report To:

ROBERT LANGDON SCS ENGINEERS 2830 DAIRY DR MADISON, WI 53718 Invoice To:

ROBERT LANGDON SCS ENGINEERS 2830 DAIRY DR MADISON, WI 53718 Customer ID: 12858

Field #: OUTDOOR AIR ID#:

Project No: 25213180-14 Sample Location:

Collection End: 7/13/2016 1:06:00 PM Sample Description:

Collection Start: 07/12/16 13:06 Sample Type: AR-AIR

Collected By: S SMITH Waterbody:
Date Received: 7/14/2016 Point or Outfall:
Date Reported: 7/25/2016 Sample Depth:
Sample Reason: Program Code:
Region Code:

County:

#### **OC-Volatiles**

Analyte		Analysis Method	Result	Units	LOD	LOQ
Prep Date 07/18/16	Analysis Date	07/18/16				
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

Report ID: 3287581 Page 5 of 14 Report Rev: 0000.25.2.WSLH.0



## **Laboratory Report**

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

**Environmental Health Division** 

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 266157003

#### **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.

#### **Previous Reports**

This sample was previously reported under the following report ID(s): 3276576

#### **Responsible Party**

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262 Inorganic Chemistry: Tracy Hanke, Lab Manager, 608-224-6270 Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282 Organic Chemistry: Al Spallato, Lab Manager, 608-224-6269

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251

Environmental Toxicology: Dave Webb, Lab Manager, 608-224-6200

Report ID: 3287581 Page 6 of 14 Report Rev: 0000.25.2.WSLH.0



## **Laboratory Report**

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

**Environmental Health Division** 

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 266157004

Report To:

ROBERT LANGDON SCS ENGINEERS 2830 DAIRY DR MADISON, WI 53718 Invoice To:

ROBERT LANGDON SCS ENGINEERS 2830 DAIRY DR MADISON, WI 53718 Customer ID: 12858

Field #: SUB SLAB #1 FRONT ID#:

Project No: 25213180-14 Sample Location: Collection End: 7/13/2016 11:35:00 AM Sample Description:

Collection Start: 07/13/16 11:05 Sample Type: SB-SUB SLAB

Collected By: S SMITH Waterbody:
Date Received: 7/14/2016 Point or Outfall:
Date Reported: 7/25/2016 Sample Depth:
Sample Reason: Program Code:
Region Code:

County:

#### **OC-Volatiles**

Analyte		Analysis Method	Result	Units	LOD	LOQ
Prep Date 07/19/16	Analysis Date	07/19/16				
Vinyl chloride		EPA TO-15	ND	ppbv	170	560
trans-1,2-Dichloroethene		EPA TO-15	ND	ppbv	170	560
cis-1,2-Dichloroethene		EPA TO-15	ND	ppbv	170	560
Trichloroethene		EPA TO-15	ND	ppbv	170	560
Tetrachloroethene		EPA TO-15	11000	ppbv	170	560

Report ID: 3287581 Page 7 of 14 Report Rev: 0000.25.2.WSLH.0



## **Laboratory Report**

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

**Environmental Health Division** 

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 266157004

#### **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.

#### **Previous Reports**

This sample was previously reported under the following report ID(s): 3276576

#### **Responsible Party**

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262 Inorganic Chemistry: Tracy Hanke, Lab Manager, 608-224-6270 Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282 Organic Chemistry: Al Spallato, Lab Manager, 608-224-6269

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251

Environmental Toxicology: Dave Webb, Lab Manager, 608-224-6200

Report ID: 3287581 Page 8 of 14 Report Rev: 0000.25.2.WSLH.0



## **Laboratory Report**

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

**Environmental Health Division** 

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 266157005

Report To:

ROBERT LANGDON SCS ENGINEERS 2830 DAIRY DR MADISON, WI 53718 ROBERT LANGDON SCS ENGINEERS 2830 DAIRY DR MADISON, WI 53718

Invoice To:

Customer ID: 12858

Field #: SUB SLAB #2 BACK ID#:

Project No: 25213180-14 Sample Location: Collection End: 7/13/2016 12:18:00 PM Sample Description:

Collection Start: 07/13/16 11:48 Sample Type: SB-SUB SLAB

Collected By: S SMITH Waterbody:
Date Received: 7/14/2016 Point or Outfall:
Date Reported: 7/25/2016 Sample Depth:
Sample Reason: Program Code:
Region Code:

County:

#### **OC-Volatiles**

Analyte		Analysis Method	Result	Units	LOD	LOQ
Prep Date 07/19/16	Analysis Date	07/19/16				
Vinyl chloride		EPA TO-15	ND	ppbv	4.3	14
trans-1,2-Dichloroethene		EPA TO-15	ND	ppbv	4.3	14
cis-1,2-Dichloroethene		EPA TO-15	ND	ppbv	4.3	14
Trichloroethene		EPA TO-15	ND	ppbv	4.3	14
Tetrachloroethene		EPA TO-15	230	ppbv	4.3	14

Report ID: 3287581 Page 9 of 14 Report Rev: 0000.25.2.WSLH.0



## **Laboratory Report**

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

**Environmental Health Division** 

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 266157005

#### **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.

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

#### **Previous Reports**

This sample was previously reported under the following report ID(s): 3276576

#### **Responsible Party**

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262 Inorganic Chemistry: Tracy Hanke, Lab Manager, 608-224-6270 Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282 Organic Chemistry: Al Spallato, Lab Manager, 608-224-6269

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251

Environmental Toxicology: Dave Webb, Lab Manager, 608-224-6200

Report ID: 3287581 Page 10 of 14 Report Rev: 0000.25.2.WSLH.0



## **Laboratory Report**

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

**Environmental Health Division** 

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 266157006

Report To:

ROBERT LANGDON SCS ENGINEERS 2830 DAIRY DR MADISON, WI 53718 Invoice To:

ROBERT LANGDON SCS ENGINEERS 2830 DAIRY DR MADISON, WI 53718

Customer ID: 12858

Field #: SUB SLAB #3 GARAGE ID#:

Project No: 25213180-14 Sample Location: Collection End: 7/13/2016 12:55:00 PM Sample Description:

Collection Start: 07/13/16 12:25 Sample Type: SB-SUB SLAB

Collected By: S SMITH Waterbody:
Date Received: 7/14/2016 Point or Outfall:
Date Reported: 7/25/2016 Sample Depth:
Sample Reason: Program Code:
Region Code:

County:

#### **OC-Volatiles**

Analyte		Analysis Method	Result	Units	LOD	LOQ
Prep Date 07/19/16	Analysis Date	07/19/16				
Vinyl chloride		EPA TO-15	ND	ppbv	4.3	14
trans-1,2-Dichloroethene		EPA TO-15	ND	ppbv	4.3	14
cis-1,2-Dichloroethene		EPA TO-15	ND	ppbv	4.3	14
Trichloroethene		EPA TO-15	30	ppbv	4.3	14
Tetrachloroethene		EPA TO-15	220	ydag	4.3	14

Report ID: 3287581 Page 11 of 14 Report Rev: 0000.25.2.WSLH.0



## **Laboratory Report**

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

**Environmental Health Division** 

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 266157006

#### **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.

#### **Previous Reports**

This sample was previously reported under the following report ID(s): 3276576

#### Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262 Inorganic Chemistry: Tracy Hanke, Lab Manager, 608-224-6270 Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282 Organic Chemistry: Al Spallato, Lab Manager, 608-224-6269

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251

Environmental Toxicology: Dave Webb, Lab Manager, 608-224-6200

Report ID: 3287581 Page 12 of 14 Report Rev: 0000.25.2.WSLH.0



## **Laboratory Report**

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

**Environmental Health Division** 

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 266157007

Report To:

ROBERT LANGDON SCS ENGINEERS 2830 DAIRY DR MADISON, WI 53718 Invoice To:

ROBERT LANGDON SCS ENGINEERS 2830 DAIRY DR MADISON, WI 53718

0 0.0101...01 .....

Customer ID: 12858

Field #: 211 S. WASH SUB SLAB ID#:

Project No: 25213180-14 Sample Location: Collection End: 7/13/2016 2:00:00 PM Sample Description:

Collection Start: 07/13/16 13:30 Sample Type: SB-SUB SLAB

Collected By: S SMITH Waterbody:
Date Received: 7/14/2016 Point or Outfall:
Date Reported: 7/25/2016 Sample Depth:
Sample Reason: Program Code:
Region Code:

County:

#### **OC-Volatiles**

Analyte		Analysis Method	Result	Units	LOD	LOQ
Prep Date 07/18/16	Analysis Date	07/18/16				
Vinyl chloride		EPA TO-15	ND	ppbv	2.1	7.0
trans-1,2-Dichloroethene		EPA TO-15	ND	ppbv	2.1	7.0
cis-1,2-Dichloroethene		EPA TO-15	ND	ppbv	2.1	7.0
Trichloroethene		EPA TO-15	ND	ppbv	2.1	7.0
Tetrachloroethene		EPA TO-15	96	vdqq	2.1	7.0

Report ID: 3287581 Page 13 of 14 Report Rev: 0000.25.2.WSLH.0



## **Laboratory Report**

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

**Environmental Health Division** 

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 266157007

#### **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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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.

#### **Previous Reports**

This sample was previously reported under the following report ID(s): 3276576

#### Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262 Inorganic Chemistry: Tracy Hanke, Lab Manager, 608-224-6270 Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282 Organic Chemistry: Al Spallato, Lab Manager, 608-224-6269

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251

Environmental Toxicology: Dave Webb, Lab Manager, 608-224-6200

Report ID: 3287581 Page 14 of 14 Report Rev: 0000.25.2.WSLH.0