



**June 26, 2019**

Mr. Lee Delcore  
Wisconsin Department of Natural Resources  
1155 Pilgrim Road  
Plymouth, WI 53073

**Re: Sample Results Notification - Vapor:  
Suggar Property.  
3301 – 60<sup>th</sup> St.  
Kenosha, WI 53144  
PECFA# 53144-4143-05  
BRRTS# 03-30-004964  
FID# 230156410**

Dear Mr. Delcore:

The following Sample Results Notification is being provided as required by Wisconsin Administrative Code (WAC) Chapter NR 716.14(2). On June 5, 2019 a sub-slab vapor sample was collected from the above-referenced site and analyzed for volatile organic compounds (VOCs) using method TO-15. The sampling was conducted to investigate the potential for vapor intrusion into the basement of the building. None of the concentrations exceeded residential vapor risk screening levels (VRSLs) or small commercial VRSLs. The sampling location is depicted on the attached figure. The laboratory results for the vapor sample, as well as a previously analyzed vapor sample are summarized on the attached table. The laboratory report is also attached.

In accordance with WAC Chapter NR 714.05 (5), additional information can be made and requests for site or facility specific responses can be submitted to the WDNR in accordance with procedures that can be found here: [http://docs.legis.wisconsin.gov/code/admin\\_code/nr/700/714/05/5](http://docs.legis.wisconsin.gov/code/admin_code/nr/700/714/05/5). A Wisconsin Department of Natural Resources (WDNR) fact sheet on vapor intrusion is attached. Contact information for the site is as follows:

Responsible Party  
Jose Ochoa  
3301 – 60<sup>th</sup> Street  
Kenosha, WI 53144  
(262) 344-9754



Wisconsin Department of Natural Resources  
Lee Delcore  
1155 Pilgrim Road  
Plymouth, WI 53073  
(920) 893-8524

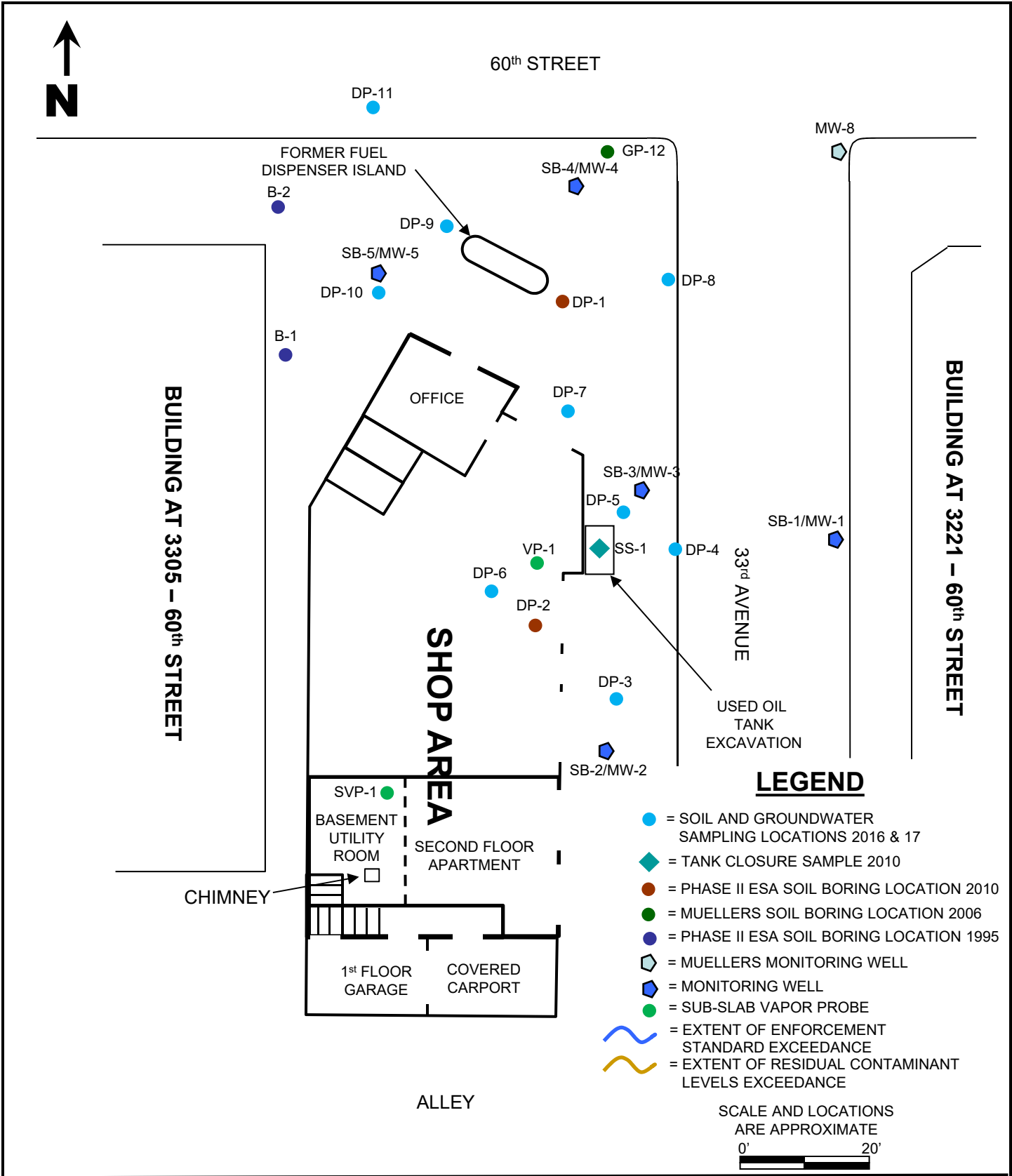
If you have any questions or need additional information please contact me at (262) 237-4351.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Sean Cranley', is written over a horizontal line.

Sean Cranley, P.G.  
Principal Hydrogeologist

Cc: Jose Ochoa  
3301 – 60<sup>th</sup> Street  
Kenosha, WI 53144  
(262) 344-9754



**LEGEND**

- = SOIL AND GROUNDWATER SAMPLING LOCATIONS 2016 & 17
- ◆ = TANK CLOSURE SAMPLE 2010
- = PHASE II ESA SOIL BORING LOCATION 2010
- = MUELLERS SOIL BORING LOCATION 2006
- = PHASE II ESA SOIL BORING LOCATION 1995
- ⬠ = MUELLERS MONITORING WELL
- ⬠ = MONITORING WELL
- = SUB-SLAB VAPOR PROBE
- ~ = EXTENT OF ENFORCEMENT STANDARD EXCEEDANCE
- ~ = EXTENT OF RESIDUAL CONTAMINANT LEVELS EXCEEDANCE

SCALE AND LOCATIONS ARE APPROXIMATE  
 0'  20'

Approved By: Sean Cranley	Figure: <b>1</b>
Date Approved: 6/24/19	
Date Drawn: 6/24/19	
Drawn By: Sean Cranley	1 of 1

**FIGURE 1**  
**SAMPLING LOCATIONS**  
**3301 – 60th STREET**  
**KENOSHA, WI**



**Table 1 (Page 1 of 1)**  
**Sub-Slab Vapor Sample Analytical Summary**  
**Suggar Property**  
**3301 - 60th Street**  
**Kenosha, WI**

Parameters	Sample Information / Results		Vapor Risk Screening Levels		
Sample ID	VP-1	SPV-1	Residential	Small Commercial	Large Commercial / Industrial
Sample Date	6/6/18	6/5/19			
VOCs (ug/m3)			ug/m3	ug/m3	ug/m3
Benzene	3.7	1.1	120	530	1,600
Carbon tetrachloride	0.96	<0.79	160	670	2,000
Chloroform	5.1	<0.36	40	180	530
Chloromethane	1.1	<0.29	3,100	13,000	39,000
Dichlorodifluoromethane	2.7	2.6	3,300	15,000	44,000
Ethylbenzene	3.8	1.2	370	1,600	4,900
Methylene Chloride	3.1	5.2	21,000	87,000	260,000
Naphthalene	<b><i>28.6</i></b>	<2.4	28	120	360
Tetrachloroethene	918	3.5	1,400	6,000	18,000
Toluene	28.3	3.9	170,000	730,000	2,200,000
Trichloroethene	1.1	<0.47	70	290	880
1,2,4-Trimethylbenzene	10.9	3.6	2,100	8,700	26,000
1,3,5-Trimethylbenzene	7.3	0.87	2,100	8,700	26,000
Xylenes	24.4	4.8	3,300	15,000	44,000

**Notes:**

Table includes detected analytes with vapor risk screening levels listed on the Wisconsin Vapor Quick Look-up Table only.

**Bold type** indicates concentration exceeds a commercial or industrial vapor risk screening level.

***Italic type*** indicates a concentration exceeds the residential vapor risk screening level.

**VOCs** - Volatile Organic Compounds

June 14, 2019

Sean Cranley  
Midwest Environmental Consulting  
N6395 E Paradise Road  
Burlington, WI 53105

RE: Project: Suggar Property Site  
Pace Project No.: 10477951

Dear Sean Cranley:

Enclosed are the analytical results for sample(s) received by the laboratory on June 06, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kirsten Hogberg  
kirsten.hogberg@pacelabs.com  
(612)607-1700  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Suggar Property Site

Pace Project No.: 10477951

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### Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #:74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Vermont Certification #: VT-027053137

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Suggar Property Site  
Pace Project No.: 10477951

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
10477951001	SPV-1	Air	06/05/19 11:28	06/06/19 11:15
10477951002	MAV-1	Air	06/05/19 12:06	06/06/19 11:15

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### SAMPLE ANALYTE COUNT

Project: Suggar Property Site

Pace Project No.: 10477951

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<b>Lab ID</b>	<b>Sample ID</b>	<b>Method</b>	<b>Analysts</b>	<b>Analytes Reported</b>
10477951001	SPV-1	TO-15	CH1	61

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Suggar Property Site

Pace Project No.: 10477951

Sample: SPV-1 Lab ID: 10477951001 Collected: 06/05/19 11:28 Received: 06/06/19 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Acetone	29.0	ug/m3	4.4	2.2	1.83		06/12/19 23:30	67-64-1	
Benzene	1.1	ug/m3	0.59	0.28	1.83		06/12/19 23:30	71-43-2	
Benzyl chloride	<2.2	ug/m3	4.8	2.2	1.83		06/12/19 23:30	100-44-7	
Bromodichloromethane	<0.67	ug/m3	2.5	0.67	1.83		06/12/19 23:30	75-27-4	
Bromoform	<2.6	ug/m3	9.6	2.6	1.83		06/12/19 23:30	75-25-2	
Bromomethane	<0.42	ug/m3	1.4	0.42	1.83		06/12/19 23:30	74-83-9	
1,3-Butadiene	<0.23	ug/m3	0.82	0.23	1.83		06/12/19 23:30	106-99-0	
2-Butanone (MEK)	3.0J	ug/m3	5.5	0.68	1.83		06/12/19 23:30	78-93-3	
Carbon disulfide	<0.40	ug/m3	1.2	0.40	1.83		06/12/19 23:30	75-15-0	
Carbon tetrachloride	<0.79	ug/m3	2.3	0.79	1.83		06/12/19 23:30	56-23-5	
Chlorobenzene	<0.50	ug/m3	1.7	0.50	1.83		06/12/19 23:30	108-90-7	
Chloroethane	<0.48	ug/m3	0.98	0.48	1.83		06/12/19 23:30	75-00-3	
Chloroform	<0.36	ug/m3	0.91	0.36	1.83		06/12/19 23:30	67-66-3	
Chloromethane	<0.29	ug/m3	0.77	0.29	1.83		06/12/19 23:30	74-87-3	
Cyclohexane	<0.65	ug/m3	3.2	0.65	1.83		06/12/19 23:30	110-82-7	
Dibromochloromethane	<1.3	ug/m3	3.2	1.3	1.83		06/12/19 23:30	124-48-1	
1,2-Dibromoethane (EDB)	<0.67	ug/m3	1.4	0.67	1.83		06/12/19 23:30	106-93-4	
1,2-Dichlorobenzene	<0.91	ug/m3	2.2	0.91	1.83		06/12/19 23:30	95-50-1	
1,3-Dichlorobenzene	<1.1	ug/m3	2.2	1.1	1.83		06/12/19 23:30	541-73-1	
1,4-Dichlorobenzene	<1.8	ug/m3	5.6	1.8	1.83		06/12/19 23:30	106-46-7	
Dichlorodifluoromethane	2.6	ug/m3	1.8	0.54	1.83		06/12/19 23:30	75-71-8	
1,1-Dichloroethane	<0.41	ug/m3	1.5	0.41	1.83		06/12/19 23:30	75-34-3	
1,2-Dichloroethane	<0.27	ug/m3	0.75	0.27	1.83		06/12/19 23:30	107-06-2	
1,1-Dichloroethene	<0.50	ug/m3	1.5	0.50	1.83		06/12/19 23:30	75-35-4	
cis-1,2-Dichloroethene	<0.40	ug/m3	1.5	0.40	1.83		06/12/19 23:30	156-59-2	
trans-1,2-Dichloroethene	<0.52	ug/m3	1.5	0.52	1.83		06/12/19 23:30	156-60-5	
1,2-Dichloropropane	<0.42	ug/m3	1.7	0.42	1.83		06/12/19 23:30	78-87-5	
cis-1,3-Dichloropropene	<0.56	ug/m3	1.7	0.56	1.83		06/12/19 23:30	10061-01-5	
trans-1,3-Dichloropropene	<0.81	ug/m3	1.7	0.81	1.83		06/12/19 23:30	10061-02-6	
Dichlorotetrafluoroethane	<0.80	ug/m3	2.6	0.80	1.83		06/12/19 23:30	76-14-2	
Ethanol	23.6	ug/m3	3.5	1.5	1.83		06/12/19 23:30	64-17-5	
Ethyl acetate	<0.35	ug/m3	1.3	0.35	1.83		06/12/19 23:30	141-78-6	
Ethylbenzene	1.2J	ug/m3	1.6	0.56	1.83		06/12/19 23:30	100-41-4	
4-Ethyltoluene	<1.0	ug/m3	4.6	1.0	1.83		06/12/19 23:30	622-96-8	
n-Heptane	3.7	ug/m3	1.5	0.70	1.83		06/12/19 23:30	142-82-5	
Hexachloro-1,3-butadiene	<3.6	ug/m3	9.9	3.6	1.83		06/12/19 23:30	87-68-3	
n-Hexane	2.9	ug/m3	1.3	0.57	1.83		06/12/19 23:30	110-54-3	
2-Hexanone	<1.4	ug/m3	7.6	1.4	1.83		06/12/19 23:30	591-78-6	
Methylene Chloride	5.2J	ug/m3	6.5	1.7	1.83		06/12/19 23:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.95	ug/m3	7.6	0.95	1.83		06/12/19 23:30	108-10-1	
Methyl-tert-butyl ether	<1.2	ug/m3	6.7	1.2	1.83		06/12/19 23:30	1634-04-4	
Naphthalene	<2.4	ug/m3	4.9	2.4	1.83		06/12/19 23:30	91-20-3	
2-Propanol	4.1J	ug/m3	4.6	1.3	1.83		06/12/19 23:30	67-63-0	
Propylene	<0.26	ug/m3	0.64	0.26	1.83		06/12/19 23:30	115-07-1	
Styrene	<0.63	ug/m3	1.6	0.63	1.83		06/12/19 23:30	100-42-5	
1,1,2,2-Tetrachloroethane	<0.53	ug/m3	1.3	0.53	1.83		06/12/19 23:30	79-34-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Suggar Property Site

Pace Project No.: 10477951

**Sample: SPV-1**      **Lab ID: 10477951001**      Collected: 06/05/19 11:28      Received: 06/06/19 11:15      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Tetrachloroethene	<b>3.5</b>	ug/m3	1.3	0.57	1.83		06/12/19 23:30	127-18-4	
Tetrahydrofuran	<b>&lt;0.48</b>	ug/m3	1.1	0.48	1.83		06/12/19 23:30	109-99-9	
Toluene	<b>3.9</b>	ug/m3	1.4	0.64	1.83		06/12/19 23:30	108-88-3	
1,2,4-Trichlorobenzene	<b>&lt;6.8</b>	ug/m3	13.8	6.8	1.83		06/12/19 23:30	120-82-1	
1,1,1-Trichloroethane	<b>&lt;0.57</b>	ug/m3	2.0	0.57	1.83		06/12/19 23:30	71-55-6	
1,1,2-Trichloroethane	<b>&lt;0.46</b>	ug/m3	1.0	0.46	1.83		06/12/19 23:30	79-00-5	
Trichloroethene	<b>&lt;0.47</b>	ug/m3	1.0	0.47	1.83		06/12/19 23:30	79-01-6	
Trichlorofluoromethane	<b>1.6J</b>	ug/m3	2.1	0.67	1.83		06/12/19 23:30	75-69-4	
1,1,2-Trichlorotrifluoroethane	<b>&lt;1.0</b>	ug/m3	2.9	1.0	1.83		06/12/19 23:30	76-13-1	
1,2,4-Trimethylbenzene	<b>3.6</b>	ug/m3	1.8	0.83	1.83		06/12/19 23:30	95-63-6	
1,3,5-Trimethylbenzene	<b>0.87J</b>	ug/m3	1.8	0.73	1.83		06/12/19 23:30	108-67-8	
Vinyl acetate	<b>&lt;0.49</b>	ug/m3	1.3	0.49	1.83		06/12/19 23:30	108-05-4	
Vinyl chloride	<b>&lt;0.23</b>	ug/m3	0.48	0.23	1.83		06/12/19 23:30	75-01-4	
m&p-Xylene	<b>3.4</b>	ug/m3	3.2	1.3	1.83		06/12/19 23:30	179601-23-1	
o-Xylene	<b>1.4J</b>	ug/m3	1.6	0.63	1.83		06/12/19 23:30	95-47-6	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Suggar Property Site  
Pace Project No.: 10477951

QC Batch: 612382 Analysis Method: TO-15  
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level  
Associated Lab Samples: 10477951001

METHOD BLANK: 3308800 Matrix: Air  
Associated Lab Samples: 10477951001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.31	1.1	06/12/19 10:41	
1,1,2,2-Tetrachloroethane	ug/m3	<0.29	0.70	06/12/19 10:41	
1,1,2-Trichloroethane	ug/m3	<0.25	0.56	06/12/19 10:41	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.56	1.6	06/12/19 10:41	
1,1-Dichloroethane	ug/m3	<0.22	0.82	06/12/19 10:41	
1,1-Dichloroethene	ug/m3	<0.27	0.81	06/12/19 10:41	
1,2,4-Trichlorobenzene	ug/m3	<3.7	7.5	06/12/19 10:41	
1,2,4-Trimethylbenzene	ug/m3	<0.45	1.0	06/12/19 10:41	
1,2-Dibromoethane (EDB)	ug/m3	<0.37	0.78	06/12/19 10:41	
1,2-Dichlorobenzene	ug/m3	<0.50	1.2	06/12/19 10:41	
1,2-Dichloroethane	ug/m3	<0.15	0.41	06/12/19 10:41	
1,2-Dichloropropane	ug/m3	<0.23	0.94	06/12/19 10:41	
1,3,5-Trimethylbenzene	ug/m3	<0.40	1.0	06/12/19 10:41	
1,3-Butadiene	ug/m3	<0.13	0.45	06/12/19 10:41	
1,3-Dichlorobenzene	ug/m3	<0.58	1.2	06/12/19 10:41	
1,4-Dichlorobenzene	ug/m3	<1.0	3.1	06/12/19 10:41	
2-Butanone (MEK)	ug/m3	<0.37	3.0	06/12/19 10:41	
2-Hexanone	ug/m3	<0.74	4.2	06/12/19 10:41	
2-Propanol	ug/m3	<0.70	2.5	06/12/19 10:41	
4-Ethyltoluene	ug/m3	<0.57	2.5	06/12/19 10:41	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.52	4.2	06/12/19 10:41	
Acetone	ug/m3	<1.2	2.4	06/12/19 10:41	
Benzene	ug/m3	<0.15	0.32	06/12/19 10:41	
Benzyl chloride	ug/m3	<1.2	2.6	06/12/19 10:41	
Bromodichloromethane	ug/m3	<0.37	1.4	06/12/19 10:41	
Bromoform	ug/m3	<1.4	5.2	06/12/19 10:41	
Bromomethane	ug/m3	<0.23	0.79	06/12/19 10:41	
Carbon disulfide	ug/m3	<0.22	0.63	06/12/19 10:41	
Carbon tetrachloride	ug/m3	<0.43	1.3	06/12/19 10:41	
Chlorobenzene	ug/m3	<0.28	0.94	06/12/19 10:41	
Chloroethane	ug/m3	<0.26	0.54	06/12/19 10:41	
Chloroform	ug/m3	<0.20	0.50	06/12/19 10:41	
Chloromethane	ug/m3	<0.16	0.42	06/12/19 10:41	
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	06/12/19 10:41	
cis-1,3-Dichloropropene	ug/m3	<0.30	0.92	06/12/19 10:41	
Cyclohexane	ug/m3	<0.35	1.8	06/12/19 10:41	
Dibromochloromethane	ug/m3	<0.72	1.7	06/12/19 10:41	
Dichlorodifluoromethane	ug/m3	<0.29	1.0	06/12/19 10:41	
Dichlorotetrafluoroethane	ug/m3	<0.44	1.4	06/12/19 10:41	
Ethanol	ug/m3	<0.81	1.9	06/12/19 10:41	
Ethyl acetate	ug/m3	<0.19	0.73	06/12/19 10:41	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Suggar Property Site  
Pace Project No.: 10477951

METHOD BLANK: 3308800

Matrix: Air

Associated Lab Samples: 10477951001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.30	0.88	06/12/19 10:41	
Hexachloro-1,3-butadiene	ug/m3	<2.0	5.4	06/12/19 10:41	
m&p-Xylene	ug/m3	<0.70	1.8	06/12/19 10:41	
Methyl-tert-butyl ether	ug/m3	<0.66	3.7	06/12/19 10:41	
Methylene Chloride	ug/m3	<0.94	3.5	06/12/19 10:41	
n-Heptane	ug/m3	<0.38	0.83	06/12/19 10:41	
n-Hexane	ug/m3	<0.31	0.72	06/12/19 10:41	
Naphthalene	ug/m3	<1.3	2.7	06/12/19 10:41	
o-Xylene	ug/m3	<0.34	0.88	06/12/19 10:41	
Propylene	ug/m3	<0.14	0.35	06/12/19 10:41	
Styrene	ug/m3	<0.34	0.87	06/12/19 10:41	
Tetrachloroethene	ug/m3	<0.31	0.69	06/12/19 10:41	
Tetrahydrofuran	ug/m3	<0.26	0.60	06/12/19 10:41	
Toluene	ug/m3	<0.35	0.77	06/12/19 10:41	
trans-1,2-Dichloroethene	ug/m3	<0.28	0.81	06/12/19 10:41	
trans-1,3-Dichloropropene	ug/m3	<0.44	0.92	06/12/19 10:41	
Trichloroethene	ug/m3	<0.26	0.55	06/12/19 10:41	
Trichlorofluoromethane	ug/m3	<0.37	1.1	06/12/19 10:41	
Vinyl acetate	ug/m3	<0.27	0.72	06/12/19 10:41	
Vinyl chloride	ug/m3	<0.13	0.26	06/12/19 10:41	

LABORATORY CONTROL SAMPLE: 3308801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	57.5	104	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	80.6	116	70-132	
1,1,2-Trichloroethane	ug/m3	55.5	65.7	118	70-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	79.4	102	70-130	
1,1-Dichloroethane	ug/m3	41.1	45.7	111	70-130	
1,1-Dichloroethene	ug/m3	40.3	44.0	109	70-130	
1,2,4-Trichlorobenzene	ug/m3	75.4	67.3	89	56-130	
1,2,4-Trimethylbenzene	ug/m3	50	57.5	115	70-134	
1,2-Dibromoethane (EDB)	ug/m3	78.1	87.4	112	70-130	
1,2-Dichlorobenzene	ug/m3	61.1	72.5	119	70-132	
1,2-Dichloroethane	ug/m3	41.1	44.4	108	70-130	
1,2-Dichloropropane	ug/m3	47	54.3	116	70-130	
1,3,5-Trimethylbenzene	ug/m3	50	52.5	105	70-132	
1,3-Butadiene	ug/m3	22.5	26.3	117	65-130	
1,3-Dichlorobenzene	ug/m3	61.1	71.6	117	70-137	
1,4-Dichlorobenzene	ug/m3	61.1	71.9	118	70-134	
2-Butanone (MEK)	ug/m3	30	30.1	100	70-130	
2-Hexanone	ug/m3	41.6	47.9	115	70-135	
2-Propanol	ug/m3	125	137	110	68-130	
4-Ethyltoluene	ug/m3	50	55.9	112	70-138	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Suggar Property Site

Pace Project No.: 10477951

LABORATORY CONTROL SAMPLE: 3308801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	41.6	48.4	116	70-131	
Acetone	ug/m3	121	117	97	67-130	
Benzene	ug/m3	32.5	33.3	103	70-130	
Benzyl chloride	ug/m3	52.6	58.7	111	70-130	
Bromodichloromethane	ug/m3	68.1	73.7	108	70-130	
Bromoform	ug/m3	105	119	113	70-132	
Bromomethane	ug/m3	39.5	42.7	108	69-130	
Carbon disulfide	ug/m3	31.6	34.8	110	56-137	
Carbon tetrachloride	ug/m3	64	70.3	110	66-131	
Chlorobenzene	ug/m3	46.8	52.2	112	70-130	
Chloroethane	ug/m3	26.8	30.4	113	70-130	
Chloroform	ug/m3	49.6	51.9	105	70-130	
Chloromethane	ug/m3	21	24.0	114	66-130	
cis-1,2-Dichloroethene	ug/m3	40.3	44.9	111	70-130	
cis-1,3-Dichloropropene	ug/m3	46.1	52.4	114	70-133	
Cyclohexane	ug/m3	35	37.9	108	68-132	
Dibromochloromethane	ug/m3	86.6	95.1	110	70-130	
Dichlorodifluoromethane	ug/m3	50.3	55.4	110	70-130	
Dichlorotetrafluoroethane	ug/m3	71	78.6	111	70-130	
Ethanol	ug/m3	95.8	111	116	68-133	
Ethyl acetate	ug/m3	36.6	41.7	114	69-130	
Ethylbenzene	ug/m3	44.1	47.4	107	67-131	
Hexachloro-1,3-butadiene	ug/m3	108	110	101	66-137	
m&p-Xylene	ug/m3	88.3	88.6	100	70-132	
Methyl-tert-butyl ether	ug/m3	36.6	40.2	110	70-130	
Methylene Chloride	ug/m3	177	189	107	65-130	
n-Heptane	ug/m3	41.7	45.1	108	65-130	
n-Hexane	ug/m3	35.8	37.2	104	66-130	
Naphthalene	ug/m3	53.3	49.2	92	56-130	
o-Xylene	ug/m3	44.1	44.6	101	70-130	
Propylene	ug/m3	17.5	22.4	128	67-130	
Styrene	ug/m3	43.3	49.7	115	69-136	
Tetrachloroethene	ug/m3	68.9	71.6	104	70-130	
Tetrahydrofuran	ug/m3	30	37.0	123	68-131	
Toluene	ug/m3	38.3	38.6	101	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	45.7	113	70-130	
trans-1,3-Dichloropropene	ug/m3	46.1	53.4	116	70-134	
Trichloroethene	ug/m3	54.6	58.9	108	70-130	
Trichlorofluoromethane	ug/m3	57.1	56.2	98	65-130	
Vinyl acetate	ug/m3	35.8	41.7	116	61-133	
Vinyl chloride	ug/m3	26	31.9	123	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: Suggar Property Site

Pace Project No.: 10477951

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Suggar Property Site  
Pace Project No.: 10477951

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<b>Lab ID</b>	<b>Sample ID</b>	<b>QC Batch Method</b>	<b>QC Batch</b>	<b>Analytical Method</b>	<b>Analytical Batch</b>
10477951001	SPV-1	TO-15	612382		

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### REPORT OF LABORATORY ANALYSIS

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**AIR: CHAIN-OF-CUSTODY /**  
The Chain-of-Custody is a LEGAL DOCUMENT. All releases

**WO#: 10477951**



10477951

<b>Section A</b> Required Client Information: Client Name: <u>Wisconsin Dept of Environmental Control</u> Address: <u>16395 E. Paradise Rd</u> City: <u>Burlington WI 53105</u> Email: <u>john.rochon@dnr.wisconsin.gov</u> Phone: <u>262.774.371</u> Requested Date: <u>1/21/19</u>		<b>Section B</b> Required Project Information: Project Name: <u>3338</u> Project Number: <u>3338</u>		<b>Section C</b> Invoicing Information: Company Name: Address: P.O. Box Reference: Please Project Management/Release Rep. Please Profile #:		Page: <u>1</u> of <u>1</u> Program: <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other Location of Sampling by State: _____ Record Level: IL _____ M _____ N _____ Other _____	
<b>Section D</b> Required Client Information <b>AIR SAMPLE ID</b> Sample IDs MUST BE UNIQUE <u>SPV-1</u> <u>MAV-1</u>		<b>COLLECTED</b> DATE: <u>6/5/19</u> TIME: <u>1058</u> DATE: <u>6/5/19</u> TIME: <u>1128</u> MEDIA CODE: _____ PFD Reading (Parts only): _____ CODES: TB, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100		Summa Can Number: <u>7 D 318</u> Flow Control Number: <u>1171</u> Pre Lab ID: <u>601</u> <u>602</u>		<b>SAMPLE CONDITIONS</b> Received on Ice: <input type="checkbox"/> YN <input type="checkbox"/> N Sealed Cooler: <input type="checkbox"/> YN <input type="checkbox"/> N Samples Intact: <input type="checkbox"/> YN <input type="checkbox"/> N	
Comments: <u>Separate Projects from Cranley/MFC 6/5/19 1400</u> <u>Need separate Lab Reports</u>		Date/Time: <u>6/5/19 11:28</u> Location: <u>3338</u> Operator: <u>Stan Cranley</u> Signature: <u>Stan Cranley</u>		Date/Time: <u>6/5/19 11:28</u> Location: <u>3338</u> Operator: <u>Stan Cranley</u> Signature: <u>Stan Cranley</u>		Date/Time: <u>6/5/19 11:28</u> Location: <u>3338</u> Operator: <u>Stan Cranley</u> Signature: <u>Stan Cranley</u>	

ORIGINAL





Document Name:  
Air Sample Condition Upon Receipt  
Document No.:  
F-MN-A-106-rev.18

Document Revised: 31Jan2019  
Page 1 of 1  
Issuing Authority:  
Pace Minnesota Quality Care

Air Sample Condition Upon Receipt

Client Name: Midwest Env.

Project #:

WO#: **10477951**

Courier:  Fed Ex  UPS  USPS  Client  
 Pace  Speedee  Commercial See Exception

PM: KNH Due Date: 06/13/19  
CLIENT: MIDWEST-AIR

Tracking Number: 4545 9912 5463

Custody Seal on Cooler/Box Present?  Yes  No Seals Intact?  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  Foam  None  Tin Can  Other: \_\_\_\_\_ Temp Blank rec:  Yes  No

Temp. (T017 and T013 samples only) (°C): \_\_\_\_\_ Corrected Temp (°C): \_\_\_\_\_ Thermometer Used:  GB7A9170600254  GB7A9155100842

Temp should be above freezing to 6°C Correction Factor: \_\_\_\_\_ Date & Initials of Person Examining Contents: 06/06/19 JS

Type of Ice Received  Blue  Wet  None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11. Individually Certified Cans <input checked="" type="checkbox"/> (list which samples)
Is sufficient information available to reconcile samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. <u>no sample info on tags, matched by can #</u>
Do cans need to be pressurized (3C and ASTM 1946 DO NOT PRESSURIZE)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13.

Samples Received: \_\_\_\_\_ Pressure Gauge #  10AIR34  10AIR35

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
<u>SPV</u>	<u>0315</u>	<u>1171</u>	<u>-8.0</u>	<u>75.0</u>					
<u>MAV</u>	<u>3394</u>	<u>1728</u>	<u>"</u>	<u>"</u>					

CLIENT NOTIFICATION/RESOLUTION

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/Resolution: Sampled in WI.

Project Manager Review: Kirsten Hofer Date: 6/6/2019

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)