

**A.4. Vapor Analytical Table**  
**VOC Analytical Results - Sub-Slab Vapor Samples**  
**Former DB Oak Property**  
**Fort Atkinson, Wisconsin**

Sample Location	Sampling Date	cis-1,2-DCE (ug/m <sup>3</sup> )	trans-1,2-DCE (ug/m <sup>3</sup> )	PCE (ug/m <sup>3</sup> )	TCE (ug/m <sup>3</sup> )	Vinyl Chloride (ug/m <sup>3</sup> )
VP-1	8/7/18	820,000	19,300	<u>5,000,000</u>	<u>2,920,000</u>	<828.8
	7/21/20	400	9.2	<u>13,100</u>	<u>311</u>	1.12
VP-2	4/26/19	<551.6	2,330	<u>212,000</u>	<u>34,000</u>	<414.4
	7/21/20	69	10.4	<u>5,100</u>	<u>500</u>	<0.148
VP-3	4/26/19	NS	NS	NS	NS	NS
	10/25/19	14.9 J	<5.775	<u>27,100</u>	<u>1,810</u>	<3.70
	7/21/20	1.11	<0.231	280	4.90	<0.148
VP-4	4/26/19	<551.6	<646.8	<u>64,000</u>	<u>9,700</u>	<414.4
	7/21/20	1.74	<0.231	1,210	26.10	<0.148
VP-5	4/26/19	NS	NS	NS	NS	NS
	10/25/19	640	630	<u>86,000</u>	<u>10,900</u>	<3.70
VP-6	4/26/19	<9.85	<11.55	<u>20,100</u>	<u>204</u>	<7.40
VP-7	4/26/19	<551.6	<646.8	<u>153,000</u>	<u>23,700</u>	<414.4
	7/21/20	3,700	69.0	<u>29,800</u>	<u>12,000</u>	<u>73.00</u>
VP-8	4/26/19	910,000	9,700	<u>47,000,000</u>	<u>580,000</u>	<u>12,200</u>
VP-9	10/3/19	23,300	<6,468	<u>2,200,000</u>	<u>196,000</u>	<4,144
VP-10	10/3/19	<4.925	<5.775	<u>3,500</u>	<u>193</u>	<3.7
VP-11	10/3/19	2,260,000	218,000	<u>176,000</u>	<u>31,300,000</u>	<u>9,400</u>
	7/21/20	490	21.8	37	<u>13,400</u>	<1.48
VP-12	10/3/19	236	5.90 J	830	<u>670</u>	<3.70
	7/21/20	259	2.77 J	590	118	<1.48
VP-13	10/3/19	10.3 J	<4.62	<u>5,200</u>	<u>243</u>	<2.96
VP-14	10/3/19	2,930	1,700	<u>29,200</u>	<u>50,000</u>	<74.0
VP-15	10/3/19	<5,516	<6,468	<u>2,860,000</u>	<u>178,000</u>	<4,144
VP-16	10/25/19	<4.925	<5.775	<u>1,620</u>	<u>3,800</u>	<3.70
VP-17	10/25/19	137	6.90 J	<u>2,470</u>	<u>1,760</u>	<3.70
VP-18	10/25/19	80.0	134	<u>39,000</u>	<u>5,000</u>	<3.70
VP-19	10/25/19	51.0	9.90 J	<u>71,000</u>	<u>1,650</u>	<3.70
<i>Residential VRSLs</i>		NS	NS	1,400	70	57
<i>Commercial VRSLs</i>		NS	NS	6,000	293	933
<i>Industrial VRSLs</i>		NS	NS	18,000	880	2,800

Notes:

1. DNR Vapor Risk Screening Levels (VRSLs) are from U.S. EPA tables (updated November 2017)

# Synergy Environmental Lab, INC

1990 Prospect Ct., Appleton, WI 54914 \*P 920-830-2455 \* F 920-733-0631

BRYAN FRIESEKE  
FEC, INC.  
6635 N. SIDNEY PLACE  
MILWAUKEE, WI 53209

Report Date 10-Aug-20

Project Name DB OAK PROPERTY  
Project # 170503

Invoice # E38221

Lab Code 5038221A  
Sample ID VP-1  
Sample Matrix Air  
Sample Date 7/21/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
Air Samples										
cis-1,2-Dichloroethene	400	ug/m3	39.4	125.2	200	TO-15		8/6/2020	CJR	1
trans-1,2-Dichloroethene	9.2	ug/m3	0.231	0.734	1	TO-15		8/6/2020	CJR	1
Tetrachloroethene	13100	ug/m3	55.6	176.8	200	TO-15		8/6/2020	CJR	1
Trichloroethene (TCE)	311	ug/m3	47.4	150.8	200	TO-15		8/6/2020	CJR	1
Vinyl Chloride	1.12	ug/m3	0.148	0.472	1	TO-15		8/6/2020	CJR	1

Lab Code 5038221B  
Sample ID VP-2  
Sample Matrix Air  
Sample Date 7/21/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
Air Samples										
cis-1,2-Dichloroethene	69	ug/m3	0.197	0.626	1	TO-15		8/6/2020	CJR	1
trans-1,2-Dichloroethene	10.4	ug/m3	0.231	0.734	1	TO-15		8/6/2020	CJR	1
Tetrachloroethene	5100	ug/m3	13.9	44.2	50	TO-15		8/6/2020	CJR	1
Trichloroethene (TCE)	500	ug/m3	11.85	37.7	50	TO-15		8/6/2020	CJR	1
Vinyl Chloride	< 0.148	ug/m3	0.148	0.472	1	TO-15		8/6/2020	CJR	1

**Project Name** DB OAK PROPERTY  
**Project #** 170503

**Invoice #** E38221

**Lab Code** 5038221C  
**Sample ID** VP-3  
**Sample Matrix** Air  
**Sample Date** 7/21/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Organic										
Air Samples										
cis-1,2-Dichloroethene	1.11	ug/m3	0.197	0.626	1	TO-15		8/6/2020	CJR	1
trans-1,2-Dichloroethene	< 0.231	ug/m3	0.231	0.734	1	TO-15		8/6/2020	CJR	1
Tetrachloroethene	280	ug/m3	0.556	1.768	2	TO-15		8/6/2020	CJR	1
Trichloroethene (TCE)	4.9	ug/m3	0.237	0.754	1	TO-15		8/6/2020	CJR	1
Vinyl Chloride	< 0.148	ug/m3	0.148	0.472	1	TO-15		8/6/2020	CJR	1

**Lab Code** 5038221D  
**Sample ID** VP-4  
**Sample Matrix** Air  
**Sample Date** 7/21/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Organic										
Air Samples										
cis-1,2-Dichloroethene	1.74	ug/m3	0.197	0.626	1	TO-15		8/6/2020	CJR	1
trans-1,2-Dichloroethene	< 0.231	ug/m3	0.231	0.734	1	TO-15		8/6/2020	CJR	1
Tetrachloroethene	1210	ug/m3	6.95	22.1	25	TO-15		8/6/2020	CJR	1
Trichloroethene (TCE)	26.1	ug/m3	0.237	0.754	1	TO-15		8/6/2020	CJR	1
Vinyl Chloride	< 0.148	ug/m3	0.148	0.472	1	TO-15		8/6/2020	CJR	1

**Lab Code** 5038221E  
**Sample ID** VP-7  
**Sample Matrix** Air  
**Sample Date** 7/21/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Organic										
Air Samples										
cis-1,2-Dichloroethene	3700	ug/m3	78.8	250.4	400	TO-15		8/6/2020	CJR	1
trans-1,2-Dichloroethene	69	ug/m3	2.31	7.34	10	TO-15		8/6/2020	CJR	1
Tetrachloroethene	29800	ug/m3	111.2	353.6	400	TO-15		8/6/2020	CJR	1
Trichloroethene (TCE)	12000	ug/m3	94.8	301.6	400	TO-15		8/6/2020	CJR	1
Vinyl Chloride	73	ug/m3	1.48	4.72	10	TO-15		8/6/2020	CJR	1

**Lab Code** 5038221F  
**Sample ID** VP-11  
**Sample Matrix** Air  
**Sample Date** 7/21/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Organic										
Air Samples										
cis-1,2-Dichloroethene	490	ug/m3	1.97	6.26	10	TO-15		8/6/2020	CJR	1
trans-1,2-Dichloroethene	21.8	ug/m3	2.31	7.34	10	TO-15		8/6/2020	CJR	1
Tetrachloroethene	37	ug/m3	2.78	8.84	10	TO-15		8/6/2020	CJR	1
Trichloroethene (TCE)	13400	ug/m3	94.8	301.6	400	TO-15		8/6/2020	CJR	1
Vinyl Chloride	< 1.48	ug/m3	1.48	4.72	10	TO-15		8/6/2020	CJR	1

Project Name DB OAK PROPERTY  
Project # 170503

Invoice # E38221

Lab Code 5038221G  
Sample ID VP-12  
Sample Matrix Air  
Sample Date 7/21/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
Air Samples										
cis-1,2-Dichloroethene	259	ug/m3	1.97	6.26	10	TO-15		8/6/2020	CJR	1
trans-1,2-Dichloroethene	2.77 "J"	ug/m3	2.31	7.34	10	TO-15		8/6/2020	CJR	1
Tetrachloroethene	590	ug/m3	2.78	8.84	10	TO-15		8/6/2020	CJR	1
Trichloroethene (TCE)	118	ug/m3	2.37	7.54	10	TO-15		8/6/2020	CJR	1
Vinyl Chloride	< 1.48	ug/m3	1.48	4.72	10	TO-15		8/6/2020	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

**Code**      **Comment**

1      Laboratory QC within limits.

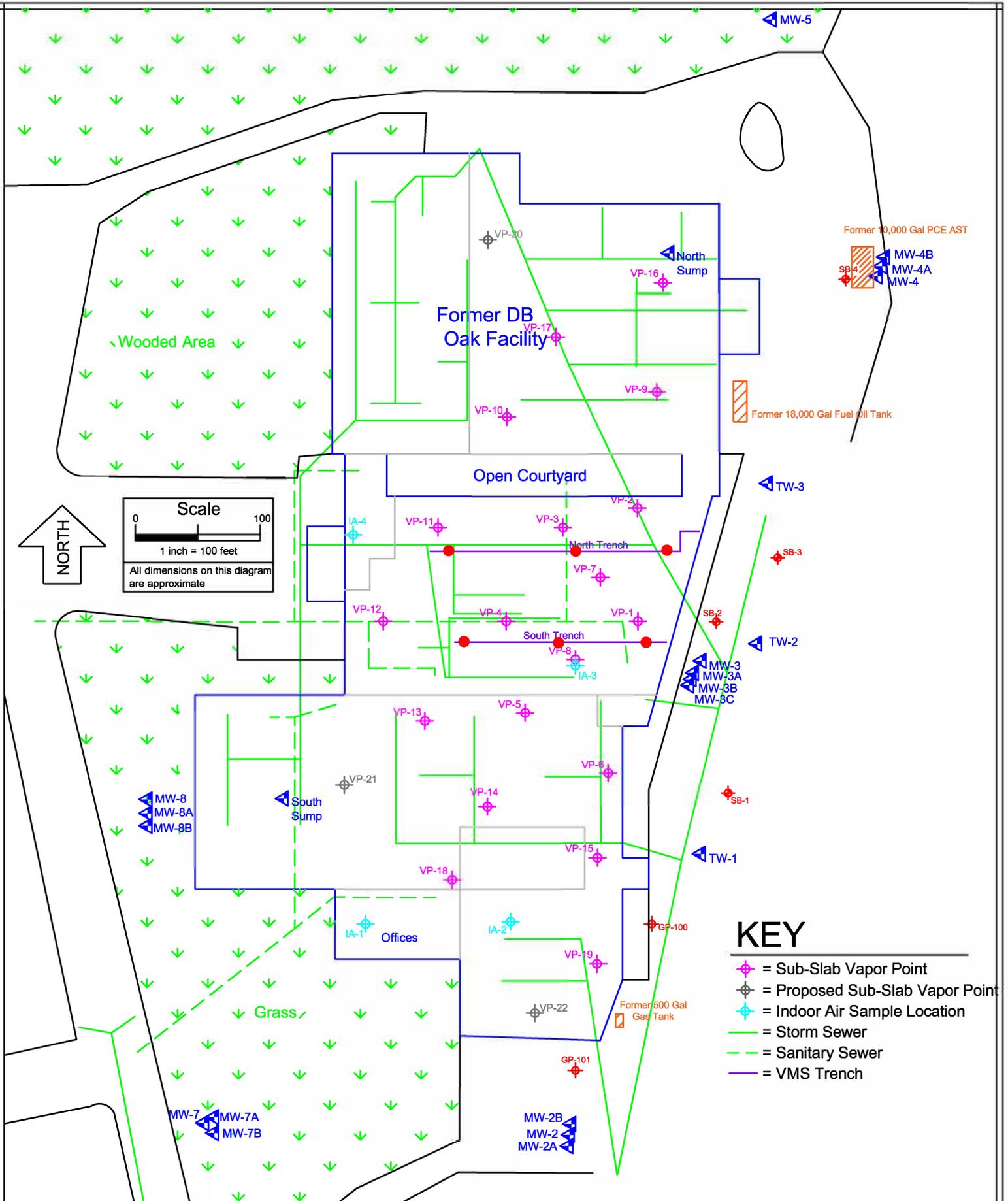
All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature



Michael J. Reed





- KEY**
- ◆ = Sub-Slab Vapor Point
  - ⊕ = Proposed Sub-Slab Vapor Point
  - ◆ = Indoor Air Sample Location
  - = Storm Sewer
  - - - = Sanitary Sewer
  - = VMS Trench

**FRIESS**  
ENVIRONMENTAL  
CONSULTING, INC.

File No.: 170503  
 DWG Date: 2-20-18  
 Rev Date: 8-26-19  
 Drawn By: BRF  
 Checked By (PM): TJO

**WP Site Diagram**  
 Former DB Oak Property  
 704 Oak Street  
 Fort Atkinson, Wisconsin

**Figure**  
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