



August 8, 2019

BJW PROPERTIES, LLC  
BARBARA WALLACE  
PO BOX 1563  
MANITOWOC WI 54221

SUBJECT: Vapor Sampling Results - Contaminant Detection Below DNR Screening Level  
PROPERTY: WI DOT – Susies Restaurant (Former) – LGU-SL, 1020 S. 26th Street, Manitowoc, WI  
BRRTS Activity # 02-36-000516

Dear Ms. Wallace

Included are the findings of a recent investigation on your property at 1015 South 26th Street and 1025 South 26th Street by the Wisconsin Department of Natural Resources (DNR).

As you are aware, this investigation was conducted because of the potential for contaminant vapors from the nearby WI DOT - Susies Restaurant (Former) property, identified above, to migrate through soils, accumulate beneath the foundation of your business, and possibly enter your indoor air. The contaminant of concern at the WI DOT - Susies Restaurant (Former) property is Trichloroethene, or TCE. The history of this site and the potential concerns to neighboring residents were described in detail in the original letter sent to your business.

On July 18, 2019, an environmental consultant hired by DNR installed a sampling device into the floor of your foundation at 1015 South 26th Street and 1025 South 26th Street and collected soil vapor samples. The samples were then submitted to the Synergy Environmental Lab, Inc., where they underwent laboratory analysis for sixty-four different volatile organic compounds (VOCs).

Additionally, on July 17, 2019, the environmental consultant hired by DNR installed two temporary groundwater monitoring wells on your property. Those temporary groundwater monitoring wells were sampled on July 18, 2019. The samples were then submitted to the Synergy Environmental Lab, Inc., where they underwent laboratory analysis for VOCs.

### Your Test Results

Attached is a copy of the laboratory report for your sub-slab air samples and the groundwater samples.

The results show that a small amount of TCE was detected in the sample taken from beneath your foundation at 1015 South 26th Street. Although TCE was detected in soil vapors beneath your foundation floor, the level at which it was detected is such that it does not pose a threat to you or your employees. This is called “a detection below screening level” and is explained in the enclosed fact sheet.

The results from the sample taken from beneath your foundation at 1025 South 26th Street show that TCE was not detected.

The results from the groundwater samples collected from the temporary groundwater monitoring wells had no VOCs detected.

August 8, 2019  
Barbara Wallace – BJW Properties, LLC  
Vapor Sampling Results  
WI DOT – Susies Restaurant (Former), BRRTS #02-36-000516

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At this time, there does not appear to be a risk of TCE vapor entering your building from beneath the foundation. Additional sampling was conducted on August 7, 2019 in order to confirm these results. A letter will be sent to you following receipt of results from the August sampling event.

The laboratory report from the July sampling event also shows very low levels of VOCs other than TCE in soil vapors from beneath your buildings. This is likely due to trace amounts of VOCs from products such as paints, adhesives, fragrances, etc. that are commonly found in the typical home or office, and unrelated to the activities that took place at WI DOT - Susies Restaurant (Former) in the past.

Please feel free to contact me at (920) 662-5443 or by email to [Sarah.Krueger@wisconsin.gov](mailto:Sarah.Krueger@wisconsin.gov) if you have any questions about these results.

Sincerely,



Sarah Krueger  
Project Manager  
Remediation & Redevelopment Program


Encl. Understanding Chemical Vapor Testing Results, [RR977](#)

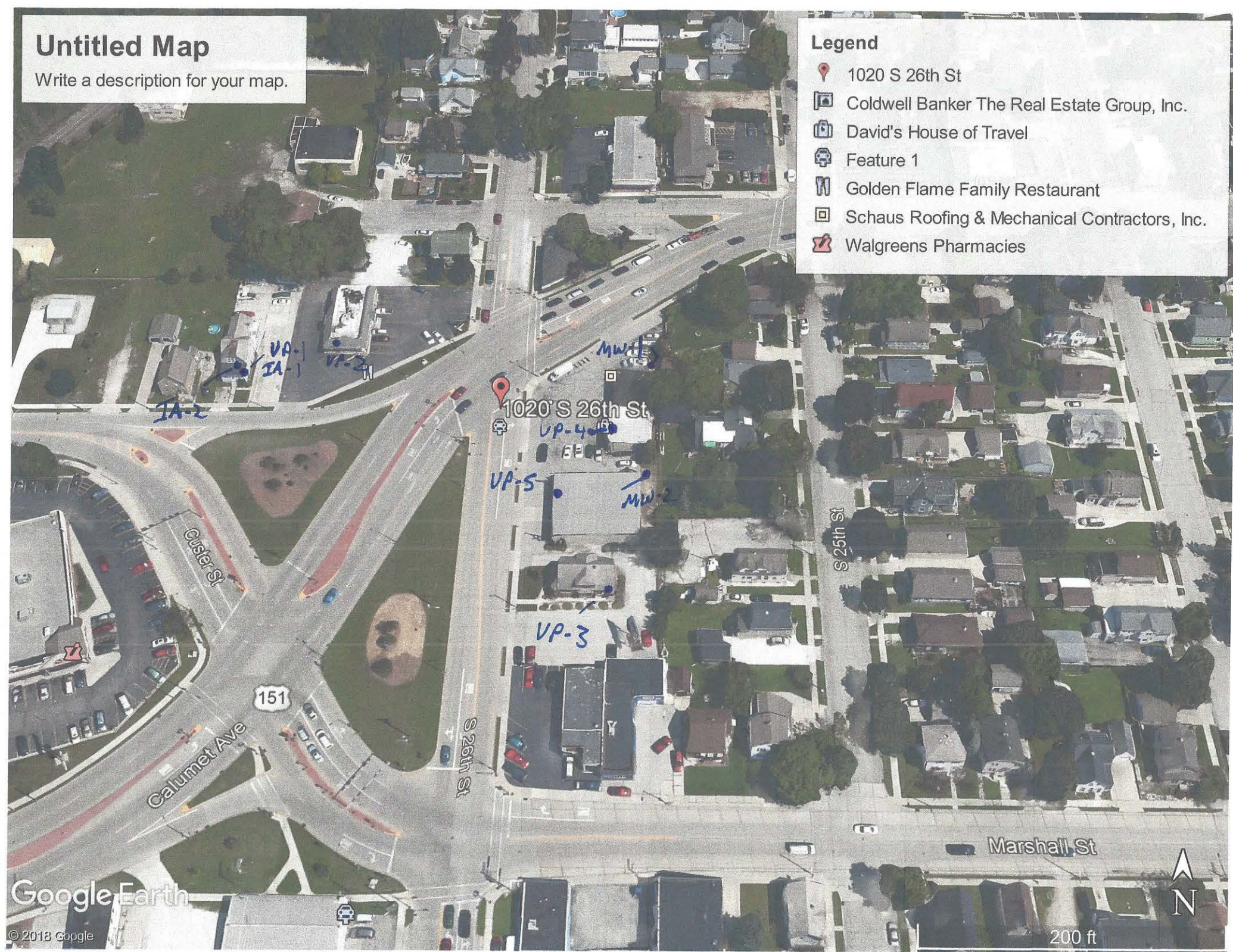
Att. Laboratory Analytical Report  
Sample Location Figure

# Untitled Map

Write a description for your map.

## Legend

-  1020 S 26th St
-  Coldwell Banker The Real Estate Group, Inc.
-  David's House of Travel
-  Feature 1
-  Golden Flame Family Restaurant
-  Schaus Roofing & Mechanical Contractors, Inc.
-  Walgreens Pharmacies



Google Earth

© 2018 Google



200 ft

Lab Code 5036505F  
 Sample ID VP-4  
 Sample Matrix Air  
 Sample Date 7/18/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
Air Samples										
Acetone	340	ug/m3	2.99	9.5	10	TO-15		7/22/2019	CJR	1
Acrolein	1.67	ug/m3	0.094	0.299	1	TO-15		7/25/2019	CJR	1
Benzene	14.5	ug/m3	0.136	0.433	1	TO-15		7/25/2019	CJR	1
Benzyl Chloride	< 0.209	ug/m3	0.209	0.665	1	TO-15		7/25/2019	CJR	1
Bromodichloromethane	< 0.374	ug/m3	0.374	1.19	1	TO-15		7/25/2019	CJR	1
Bromoform	< 0.414	ug/m3	0.414	1.32	1	TO-15		7/25/2019	CJR	1
Bromomethane	< 0.2	ug/m3	0.2	0.637	1	TO-15		7/25/2019	CJR	1
1,3-Butadiene	< 0.143	ug/m3	0.143	0.454	1	TO-15		7/25/2019	CJR	1
Carbon Disulfide	13.1	ug/m3	0.138	0.44	1	TO-15		7/25/2019	CJR	1
Carbon Tetrachloride	< 0.307	ug/m3	0.307	0.978	1	TO-15		7/25/2019	CJR	1
Chlorobenzene	< 0.251	ug/m3	0.251	0.798	1	TO-15		7/25/2019	CJR	1
Chloroethane	< 0.159	ug/m3	0.159	0.507	1	TO-15		7/25/2019	CJR	1
Chloroform	0.34 "J"	ug/m3	0.3	0.953	1	TO-15		7/25/2019	CJR	1
Chloromethane	< 0.831	ug/m3	0.831	2.64	1	TO-15		7/25/2019	CJR	1
Cyclohexane	7.4	ug/m3	0.212	0.674	1	TO-15		7/25/2019	CJR	1
Dibromochloromethane	< 0.376	ug/m3	0.376	1.2	1	TO-15		7/25/2019	CJR	1
1,4-Dichlorobenzene	0.66 "J"	ug/m3	0.302	0.96	1	TO-15		7/25/2019	CJR	1
1,3-Dichlorobenzene	0.48 "J"	ug/m3	0.302	0.96	1	TO-15		7/25/2019	CJR	1
1,2-Dichlorobenzene	5	ug/m3	0.235	0.749	1	TO-15		7/25/2019	CJR	1
Dichlorodifluoromethane	4900	ug/m3	2.63	8.36	10	TO-15		7/22/2019	CJR	10
1,2-Dichloroethane	< 0.24	ug/m3	0.24	0.763	1	TO-15		7/25/2019	CJR	1
1,1-Dichloroethane	< 0.187	ug/m3	0.187	0.596	1	TO-15		7/25/2019	CJR	1
1,1-Dichloroethene	< 0.21	ug/m3	0.21	0.668	1	TO-15		7/25/2019	CJR	1
cis-1,2-Dichloroethene	3.01	ug/m3	0.197	0.626	1	TO-15		7/25/2019	CJR	1
trans-1,2-Dichloroethene	< 0.231	ug/m3	0.231	0.734	1	TO-15		7/25/2019	CJR	1
1,2-Dichloropropane	< 0.28	ug/m3	0.28	0.89	1	TO-15		7/25/2019	CJR	1
trans-1,3-Dichloropropene	< 0.198	ug/m3	0.198	0.63	1	TO-15		7/25/2019	CJR	1
cis-1,3-Dichloropropene	< 0.234	ug/m3	0.234	0.745	1	TO-15		7/25/2019	CJR	1
1,2-Dichlorotetrafluoroethane	< 0.446	ug/m3	0.446	1.42	1	TO-15		7/25/2019	CJR	1
1,4-Dioxane	14.7	ug/m3	0.157	0.5	1	TO-15		7/25/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.342	ug/m3	0.342	1.09	1	TO-15		7/25/2019	CJR	1
Ethanol	1620	ug/m3	1.52	4.82	10	TO-15		7/22/2019	CJR	10
Ethyl Acetate	< 0.176	ug/m3	0.176	0.559	1	TO-15		7/25/2019	CJR	1
Ethylbenzene	20.3	ug/m3	0.203	0.645	1	TO-15		7/25/2019	CJR	1
4-Ethyltoluene	9.4	ug/m3	0.214	0.681	1	TO-15		7/25/2019	CJR	1
Heptane	22	ug/m3	0.265	0.845	1	TO-15		7/25/2019	CJR	1
Hexachlorobutadiene	< 0.489	ug/m3	0.489	1.56	1	TO-15		7/25/2019	CJR	1
Hexane	25.7	ug/m3	0.235	0.748	1	TO-15		7/25/2019	CJR	1
2-Hexanone	< 0.222	ug/m3	0.222	0.707	1	TO-15		7/25/2019	CJR	1
Isopropyl Alcohol	48	ug/m3	0.109	0.347	1	TO-15		7/25/2019	CJR	1
Methyl ethyl ketone (MEK)	27.2	ug/m3	0.178	0.567	1	TO-15		7/25/2019	CJR	1
Methyl isobutyl ketone (MIBK)	8.2	ug/m3	0.168	0.536	1	TO-15		7/25/2019	CJR	1
Methyl Methacrylate	1.68	ug/m3	0.217	0.69	1	TO-15		7/25/2019	CJR	1
Methylene chloride	< 15	ug/m3	0.159	0.506	1	TO-15		7/25/2019	CJR	1

**Project Name** SUSIES RESTAURANT  
**Project #**

**Invoice #** E36505

**Lab Code** 5036505F  
**Sample ID** VP-4  
**Sample Matrix** Air  
**Sample Date** 7/18/2019

	<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>
Methyl tert-butyl ether (MTBE)	< 0.16	ug/m3	0.16	0.509	1	TO-15		7/25/2019	CJR	1
Naphthalene	15.7	ug/m3	0.675	2.15	1	TO-15		7/25/2019	CJR	1
Propene	31.6	ug/m3	0.079	0.251	1	TO-15		7/25/2019	CJR	1
Styrene	11	ug/m3	0.181	0.577	1	TO-15		7/25/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.325	ug/m3	0.325	1.03	1	TO-15		7/25/2019	CJR	1
Tetrachloroethene	187	ug/m3	0.278	0.884	1	TO-15		7/25/2019	CJR	1
Tetrahydrofuran	< 0.131	ug/m3	0.131	0.417	1	TO-15		7/25/2019	CJR	1
Toluene	70	ug/m3	0.184	0.585	1	TO-15		7/25/2019	CJR	1
1,2,4-Trichlorobenzene	< 0.657	ug/m3	0.657	2.09	1	TO-15		7/25/2019	CJR	1
1,1,1-Trichloroethane	1.14	ug/m3	0.249	0.793	1	TO-15		7/25/2019	CJR	1
1,1,2-Trichloroethane	< 0.258	ug/m3	0.258	0.822	1	TO-15		7/25/2019	CJR	1
Trichloroethene (TCE)	3.6	ug/m3	0.237	0.754	1	TO-15		7/25/2019	CJR	1
Trichlorofluoromethane	1.46	ug/m3	0.337	1.07	1	TO-15		7/25/2019	CJR	1
Trichlorotrifluoroethane	0.61 "J"	ug/m3	0.402	1.28	1	TO-15		7/25/2019	CJR	1
1,2,4-Trimethylbenzene	51	ug/m3	0.283	0.899	1	TO-15		7/25/2019	CJR	1
1,3,5-Trimethylbenzene	12.3	ug/m3	0.232	0.739	1	TO-15		7/25/2019	CJR	1
Vinyl acetate	< 0.203	ug/m3	0.203	0.645	1	TO-15		7/25/2019	CJR	1
Vinyl Chloride	0.49	ug/m3	0.148	0.472	1	TO-15		7/25/2019	CJR	1
m&p-Xylene	66	ug/m3	0.377	1.2	1	TO-15		7/25/2019	CJR	1
o-Xylene	26.7	ug/m3	0.218	0.695	1	TO-15		7/25/2019	CJR	1

Lab Code 5036505G  
 Sample ID VP-5  
 Sample Matrix Air  
 Sample Date 7/18/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
Air Samples										
Acetone	440	ug/m3	0.299	0.95	1	TO-15		7/25/2019	CJR	10
Acrolein	1.86	ug/m3	0.094	0.299	1	TO-15		7/25/2019	CJR	1
Benzene	13.7	ug/m3	0.136	0.433	1	TO-15		7/25/2019	CJR	1
Benzyl Chloride	< 0.209	ug/m3	0.209	0.665	1	TO-15		7/25/2019	CJR	1
Bromodichloromethane	< 0.374	ug/m3	0.374	1.19	1	TO-15		7/25/2019	CJR	1
Bromoform	< 0.414	ug/m3	0.414	1.32	1	TO-15		7/25/2019	CJR	1
Bromomethane	< 0.2	ug/m3	0.2	0.637	1	TO-15		7/25/2019	CJR	1
1,3-Butadiene	< 0.143	ug/m3	0.143	0.454	1	TO-15		7/25/2019	CJR	1
Carbon Disulfide	2.68	ug/m3	0.138	0.44	1	TO-15		7/25/2019	CJR	1
Carbon Tetrachloride	< 0.307	ug/m3	0.307	0.978	1	TO-15		7/25/2019	CJR	1
Chlorobenzene	< 0.251	ug/m3	0.251	0.798	1	TO-15		7/25/2019	CJR	1
Chloroethane	< 0.159	ug/m3	0.159	0.507	1	TO-15		7/25/2019	CJR	1
Chloroform	< 0.3	ug/m3	0.3	0.953	1	TO-15		7/25/2019	CJR	1
Chloromethane	< 0.831	ug/m3	0.831	2.64	1	TO-15		7/25/2019	CJR	1
Cyclohexane	8.2	ug/m3	0.212	0.674	1	TO-15		7/25/2019	CJR	1
Dibromochloromethane	< 0.376	ug/m3	0.376	1.2	1	TO-15		7/25/2019	CJR	1
1,4-Dichlorobenzene	< 0.302	ug/m3	0.302	0.96	1	TO-15		7/25/2019	CJR	1
1,3-Dichlorobenzene	< 0.302	ug/m3	0.302	0.96	1	TO-15		7/25/2019	CJR	1
1,2-Dichlorobenzene	0.65 "J"	ug/m3	0.235	0.749	1	TO-15		7/25/2019	CJR	1
Dichlorodifluoromethane	4.5	ug/m3	0.263	0.836	1	TO-15		7/25/2019	CJR	1
1,2-Dichloroethane	< 0.24	ug/m3	0.24	0.763	1	TO-15		7/25/2019	CJR	1
1,1-Dichloroethane	< 0.187	ug/m3	0.187	0.596	1	TO-15		7/25/2019	CJR	1
1,1-Dichloroethene	< 0.21	ug/m3	0.21	0.668	1	TO-15		7/25/2019	CJR	1
cis-1,2-Dichloroethene	< 0.197	ug/m3	0.197	0.626	1	TO-15		7/25/2019	CJR	1
trans-1,2-Dichloroethene	< 0.231	ug/m3	0.231	0.734	1	TO-15		7/25/2019	CJR	1
1,2-Dichloropropane	< 0.28	ug/m3	0.28	0.89	1	TO-15		7/25/2019	CJR	1
trans-1,3-Dichloropropene	< 0.198	ug/m3	0.198	0.63	1	TO-15		7/25/2019	CJR	1
cis-1,3-Dichloropropene	< 0.234	ug/m3	0.234	0.745	1	TO-15		7/25/2019	CJR	1
1,2-Dichlorotetrafluoroethane	< 0.446	ug/m3	0.446	1.42	1	TO-15		7/25/2019	CJR	1
1,4-Dioxane	11.6	ug/m3	0.157	0.5	1	TO-15		7/25/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.342	ug/m3	0.342	1.09	1	TO-15		7/25/2019	CJR	1
Ethanol	256	ug/m3	0.152	0.482	1	TO-15		7/25/2019	CJR	10
Ethyl Acetate	< 0.176	ug/m3	0.176	0.559	1	TO-15		7/25/2019	CJR	1
Ethylbenzene	18.9	ug/m3	0.203	0.645	1	TO-15		7/25/2019	CJR	1
4-Ethyltoluene	8.8	ug/m3	0.214	0.681	1	TO-15		7/25/2019	CJR	1
Heptane	23.4	ug/m3	0.265	0.845	1	TO-15		7/25/2019	CJR	1
Hexachlorobutadiene	< 0.489	ug/m3	0.489	1.56	1	TO-15		7/25/2019	CJR	1
Hexane	29.4	ug/m3	0.235	0.748	1	TO-15		7/25/2019	CJR	1
2-Hexanone	< 0.222	ug/m3	0.222	0.707	1	TO-15		7/25/2019	CJR	1
Isopropyl Alcohol	30.5	ug/m3	0.109	0.347	1	TO-15		7/25/2019	CJR	1
Methyl ethyl ketone (MEK)	20	ug/m3	0.178	0.567	1	TO-15		7/25/2019	CJR	1
Methyl isobutyl ketone (MIBK)	< 0.168	ug/m3	0.168	0.536	1	TO-15		7/25/2019	CJR	1
Methyl Methacrylate	< 0.217	ug/m3	0.217	0.69	1	TO-15		7/25/2019	CJR	1
Methylene chloride	< 15	ug/m3	0.159	0.506	1	TO-15		7/25/2019	CJR	1

**Lab Code** 5036505G  
**Sample ID** VP-5  
**Sample Matrix** Air  
**Sample Date** 7/18/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Methyl tert-butyl ether (MTBE)	< 0.16	ug/m3	0.16	0.509	1	TO-15		7/25/2019	CJR	1
Naphthalene	6.9	ug/m3	0.675	2.15	1	TO-15		7/25/2019	CJR	1
Propene	35	ug/m3	0.079	0.251	1	TO-15		7/25/2019	CJR	1
Styrene	1.11	ug/m3	0.181	0.577	1	TO-15		7/25/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.325	ug/m3	0.325	1.03	1	TO-15		7/25/2019	CJR	1
Tetrachloroethene	33	ug/m3	0.278	0.884	1	TO-15		7/25/2019	CJR	1
Tetrahydrofuran	< 0.131	ug/m3	0.131	0.417	1	TO-15		7/25/2019	CJR	1
Toluene	71	ug/m3	0.184	0.585	1	TO-15		7/25/2019	CJR	1
1,2,4-Trichlorobenzene	< 0.657	ug/m3	0.657	2.09	1	TO-15		7/25/2019	CJR	1
1,1,1-Trichloroethane	< 0.249	ug/m3	0.249	0.793	1	TO-15		7/25/2019	CJR	1
1,1,2-Trichloroethane	< 0.258	ug/m3	0.258	0.822	1	TO-15		7/25/2019	CJR	1
Trichloroethene (TCE)	< 0.237	ug/m3	0.237	0.754	1	TO-15		7/25/2019	CJR	1
Trichlorofluoromethane	1.4	ug/m3	0.337	1.07	1	TO-15		7/25/2019	CJR	1
Trichlorotrifluoroethane	0.54 "J"	ug/m3	0.402	1.28	1	TO-15		7/25/2019	CJR	1
1,2,4-Trimethylbenzene	43	ug/m3	0.283	0.899	1	TO-15		7/25/2019	CJR	1
1,3,5-Trimethylbenzene	12	ug/m3	0.232	0.739	1	TO-15		7/25/2019	CJR	1
Vinyl acetate	< 0.203	ug/m3	0.203	0.645	1	TO-15		7/25/2019	CJR	1
Vinyl Chloride	0.41 "J"	ug/m3	0.148	0.472	1	TO-15		7/25/2019	CJR	1
m&p-Xylene	50	ug/m3	0.377	1.2	1	TO-15		7/25/2019	CJR	1
o-Xylene	21	ug/m3	0.218	0.695	1	TO-15		7/25/2019	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.
- 10             Linear range of calibration curve exceeded.

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**

Lab Code 5036506B  
 Sample ID MW-1  
 Sample Matrix Water  
 Sample Date 7/17/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		7/29/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		7/29/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		7/29/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		7/29/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		7/29/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		7/29/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		7/29/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		7/29/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		7/29/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		7/29/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		7/29/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		7/29/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/29/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		7/29/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		7/29/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		7/29/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		7/29/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		7/29/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		7/29/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		7/29/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		7/29/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		7/29/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		7/29/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		7/29/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		7/29/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		7/29/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		7/29/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		7/29/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		7/29/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		7/29/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		7/29/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		7/29/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		7/29/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		7/29/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		7/29/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		7/29/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		7/29/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		7/29/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		7/29/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/29/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		7/29/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		7/29/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		7/29/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		7/29/2019	CJR	1



**Project Name** SUSIES RESTAURANT  
**Project #**

**Invoice #** E36506

**Lab Code** 5036506B  
**Sample ID** MW-1  
**Sample Matrix** Water  
**Sample Date** 7/17/2019

	<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>
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		7/29/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		7/29/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		7/29/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		7/29/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		7/29/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		7/29/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		7/29/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		7/29/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		7/29/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		7/29/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		7/29/2019	CJR	1
SUR - 4-Bromofluorobenzene	92	REC %			1	8260B		7/29/2019	CJR	1
SUR - Dibromofluoromethane	104	REC %			1	8260B		7/29/2019	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B		7/29/2019	CJR	1

**Lab Code** 5036506C  
**Sample ID** MW-2  
**Sample Matrix** Water  
**Sample Date** 7/17/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		7/29/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		7/29/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		7/29/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		7/29/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		7/29/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		7/29/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		7/29/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		7/29/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		7/29/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		7/29/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		7/29/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		7/29/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/29/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		7/29/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		7/29/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		7/29/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		7/29/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		7/29/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		7/29/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		7/29/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		7/29/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		7/29/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		7/29/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		7/29/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		7/29/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		7/29/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		7/29/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		7/29/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		7/29/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		7/29/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		7/29/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		7/29/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		7/29/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		7/29/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		7/29/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		7/29/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		7/29/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		7/29/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		7/29/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/29/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		7/29/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		7/29/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		7/29/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		7/29/2019	CJR	1

**Project Name** SUSIES RESTAURANT  
**Project #**

**Invoice #** E36506

**Lab Code** 5036506C  
**Sample ID** MW-2  
**Sample Matrix** Water  
**Sample Date** 7/17/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		7/29/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		7/29/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		7/29/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		7/29/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		7/29/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		7/29/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		7/29/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		7/29/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		7/29/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		7/29/2019	CJR	1
SUR - Toluene-d8	101	REC %				8260B		7/29/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %				8260B		7/29/2019	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %				8260B		7/29/2019	CJR	1
SUR - Dibromofluoromethane	107	REC %				8260B		7/29/2019	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**



August 8, 2019

KATHY A SCHMILL  
1029 S 26TH STREET  
MANITOWOC WI 54220

SUBJECT: Vapor Sampling Results - Contaminant Detection Below DNR Screening Level  
PROPERTY: WI DOT – Susies Restaurant (Former) – LGU-SL, 1020 S. 26th Street, Manitowoc, WI  
BRRTS Activity # 02-36-000516

Dear Ms. Schmill:

Included are the findings of a recent investigation on your property at 1029 S 26th Street by the Wisconsin Department of Natural Resources (DNR).

As you are aware, this investigation was conducted because of the potential for contaminant vapors from the nearby WI DOT - Susies Restaurant (Former) property, identified above, to migrate through soils, accumulate beneath the foundation of your business, and possibly enter your indoor air. The contaminant of concern at the WI DOT - Susies Restaurant (Former) property is Trichloroethene, or TCE. The history of this site and the potential concerns to neighboring residents were described in detail in the original letter sent to your business.

On July 18, 2019, an environmental consultant hired by DNR installed a sampling device into the floor of your foundation at 1029 South 26th Street and collected soil vapor samples. The sample was then submitted to the Synergy Environmental Lab, Inc., where it underwent laboratory analysis for sixty-four different volatile organic compounds (VOCs).

#### Your Test Results

Attached is a copy of the laboratory report for your sub-slab air sample. The results show that TCE was not detected. There does not appear to be a risk of TCE vapor entering your business from beneath the foundation at this time. In order to confirm the result, additional sampling was conducted on August 7, 2019. A letter will be sent to you following receipt of results from the August sampling event.

The laboratory report from the July sampling event also shows very low levels of VOCs other than TCE in soil vapors from beneath your buildings. This is likely due to trace amounts of VOCs from products such as paints, adhesives, fragrances, etc. that are commonly found in the typical home or office, and unrelated to the activities that took place at WI DOT - Susies Restaurant (Former) in the past.

Please feel free to contact me at (920) 662-5443 or by email to [Sarah.Krueger@wisconsin.gov](mailto:Sarah.Krueger@wisconsin.gov) if you have any questions about these results.

Sincerely,

Sarah Krueger  
Project Manager  
Remediation & Redevelopment Program

August 8, 2019  
Kathy Schmill  
Vapor Sampling Results  
WI DOT – Susies Restaurant (Former), BRRTS #02-36-000516

Page 2 of 2

Encl. Understanding Chemical Vapor Testing Results, [RR977](#)

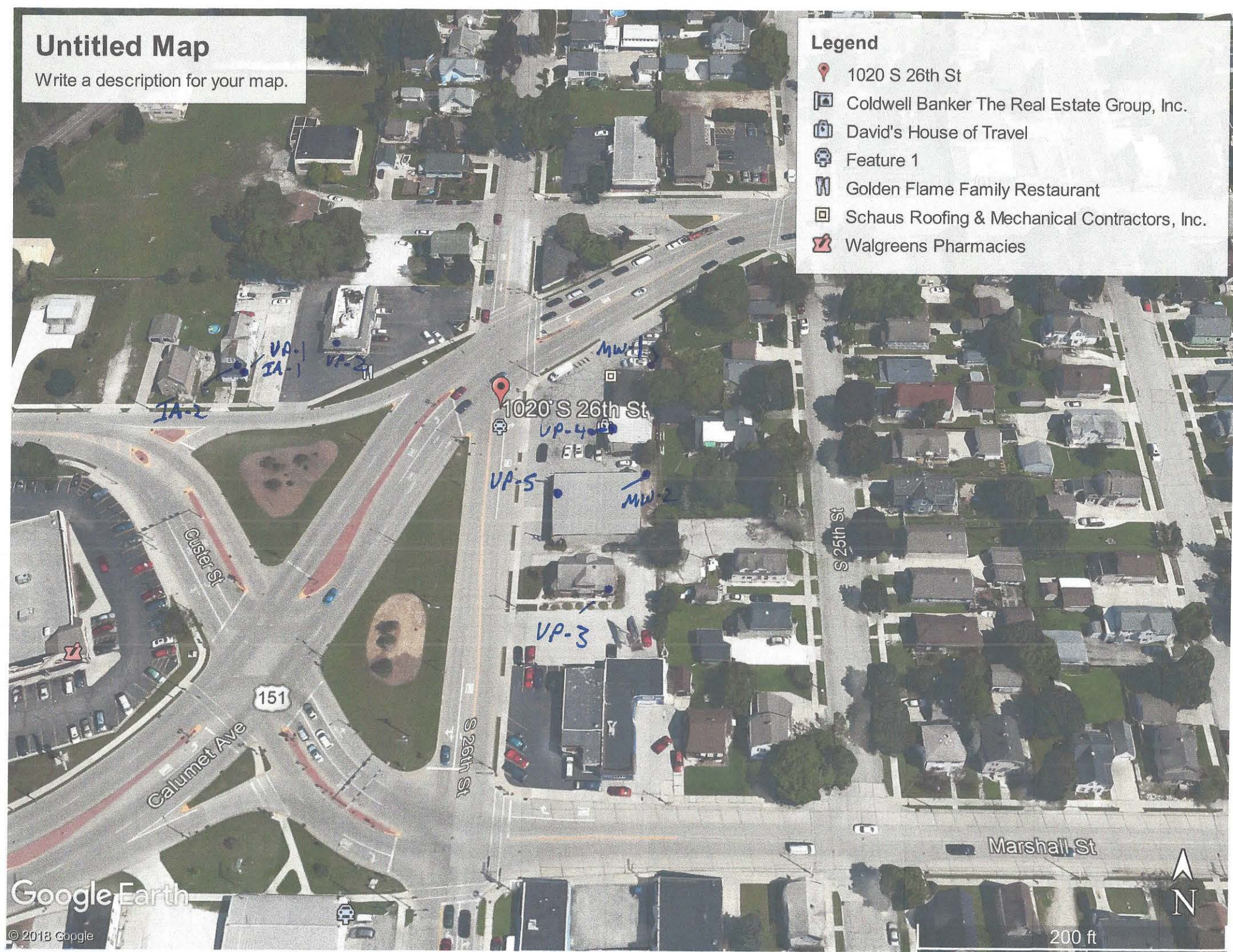
Att. Laboratory Analytical Report  
Sample Location Figure

# Untitled Map

Write a description for your map.

## Legend

-  1020 S 26th St
-  Coldwell Banker The Real Estate Group, Inc.
-  David's House of Travel
-  Feature 1
-  Golden Flame Family Restaurant
-  Schaus Roofing & Mechanical Contractors, Inc.
-  Walgreens Pharmacies



Google Earth

© 2018 Google

200 ft



Lab Code 5036505E  
 Sample ID VP-3  
 Sample Matrix Air  
 Sample Date 7/18/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
Air Samples										
Acetone	41	ug/m3	0.299	0.95	1	TO-15		7/23/2019	CJR	1
Acrolein	0.73	ug/m3	0.094	0.299	1	TO-15		7/23/2019	CJR	1
Benzene	3.6	ug/m3	0.136	0.433	1	TO-15		7/23/2019	CJR	1
Benzyl Chloride	< 0.209	ug/m3	0.209	0.665	1	TO-15		7/23/2019	CJR	1
Bromodichloromethane	0.6 "J"	ug/m3	0.374	1.19	1	TO-15		7/23/2019	CJR	1
Bromoform	< 0.414	ug/m3	0.414	1.32	1	TO-15		7/23/2019	CJR	1
Bromomethane	< 0.2	ug/m3	0.2	0.637	1	TO-15		7/23/2019	CJR	1
1,3-Butadiene	< 0.143	ug/m3	0.143	0.454	1	TO-15		7/23/2019	CJR	1
Carbon Disulfide	1.65	ug/m3	0.138	0.44	1	TO-15		7/23/2019	CJR	1
Carbon Tetrachloride	< 0.307	ug/m3	0.307	0.978	1	TO-15		7/23/2019	CJR	1
Chlorobenzene	< 0.251	ug/m3	0.251	0.798	1	TO-15		7/23/2019	CJR	1
Chloroethane	< 0.159	ug/m3	0.159	0.507	1	TO-15		7/23/2019	CJR	1
Chloroform	0.54 "J"	ug/m3	0.3	0.953	1	TO-15		7/23/2019	CJR	1
Chloromethane	< 0.831	ug/m3	0.831	2.64	1	TO-15		7/23/2019	CJR	1
Cyclohexane	1.86	ug/m3	0.212	0.674	1	TO-15		7/23/2019	CJR	1
Dibromochloromethane	< 0.376	ug/m3	0.376	1.2	1	TO-15		7/23/2019	CJR	1
1,4-Dichlorobenzene	0.66 "J"	ug/m3	0.302	0.96	1	TO-15		7/23/2019	CJR	1
1,3-Dichlorobenzene	< 0.302	ug/m3	0.302	0.96	1	TO-15		7/23/2019	CJR	1
1,2-Dichlorobenzene	0.47 "J"	ug/m3	0.235	0.749	1	TO-15		7/23/2019	CJR	1
Dichlorodifluoromethane	6.9	ug/m3	0.263	0.836	1	TO-15		7/23/2019	CJR	1
1,2-Dichloroethane	< 0.24	ug/m3	0.24	0.763	1	TO-15		7/23/2019	CJR	1
1,1-Dichloroethane	< 0.187	ug/m3	0.187	0.596	1	TO-15		7/23/2019	CJR	1
1,1-Dichloroethene	< 0.21	ug/m3	0.21	0.668	1	TO-15		7/23/2019	CJR	1
cis-1,2-Dichloroethene	< 0.197	ug/m3	0.197	0.626	1	TO-15		7/23/2019	CJR	1
trans-1,2-Dichloroethene	< 0.231	ug/m3	0.231	0.734	1	TO-15		7/23/2019	CJR	1
1,2-Dichloropropane	< 0.28	ug/m3	0.28	0.89	1	TO-15		7/23/2019	CJR	1
trans-1,3-Dichloropropene	< 0.198	ug/m3	0.198	0.63	1	TO-15		7/23/2019	CJR	1
cis-1,3-Dichloropropene	< 0.234	ug/m3	0.234	0.745	1	TO-15		7/23/2019	CJR	1
1,2-Dichlorotetrafluoroethane	< 0.446	ug/m3	0.446	1.42	1	TO-15		7/23/2019	CJR	1
1,4-Dioxane	< 0.157	ug/m3	0.157	0.5	1	TO-15		7/23/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.342	ug/m3	0.342	1.09	1	TO-15		7/23/2019	CJR	1
Ethanol	51	ug/m3	0.152	0.482	1	TO-15		7/23/2019	CJR	1
Ethyl Acetate	0.72	ug/m3	0.176	0.559	1	TO-15		7/23/2019	CJR	1
Ethylbenzene	7.8	ug/m3	0.203	0.645	1	TO-15		7/23/2019	CJR	1
4-Ethyltoluene	3.3	ug/m3	0.214	0.681	1	TO-15		7/23/2019	CJR	1
Heptane	5.9	ug/m3	0.265	0.845	1	TO-15		7/23/2019	CJR	1
Hexachlorobutadiene	< 0.489	ug/m3	0.489	1.56	1	TO-15		7/23/2019	CJR	1
Hexane	4.8	ug/m3	0.235	0.748	1	TO-15		7/23/2019	CJR	1
2-Hexanone	< 0.222	ug/m3	0.222	0.707	1	TO-15		7/23/2019	CJR	1
Isopropyl Alcohol	2.92	ug/m3	0.109	0.347	1	TO-15		7/23/2019	CJR	1
Methyl ethyl ketone (MEK)	8.1	ug/m3	0.178	0.567	1	TO-15		7/23/2019	CJR	1
Methyl isobutyl ketone (MIBK)	1.51	ug/m3	0.168	0.536	1	TO-15		7/23/2019	CJR	1
Methyl Methacrylate	< 0.217	ug/m3	0.217	0.69	1	TO-15		7/23/2019	CJR	1
Methylene chloride	< 15	ug/m3	0.159	0.506	1	TO-15		7/23/2019	CJR	1

Project Name SUSIES RESTAURANT  
Project #

Invoice # E36505

Lab Code 5036505E  
Sample ID VP-3  
Sample Matrix Air  
Sample Date 7/18/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Methyl tert-butyl ether (MTBE)	< 0.16	ug/m3	0.16	0.509	1	TO-15		7/23/2019	CJR	1
Naphthalene	3.9	ug/m3	0.675	2.15	1	TO-15		7/23/2019	CJR	1
Propene	2.94	ug/m3	0.079	0.251	1	TO-15		7/23/2019	CJR	1
Styrene	1.02	ug/m3	0.181	0.577	1	TO-15		7/23/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.325	ug/m3	0.325	1.03	1	TO-15		7/23/2019	CJR	1
Tetrachloroethene	1.97	ug/m3	0.278	0.884	1	TO-15		7/23/2019	CJR	1
Tetrahydrofuran	< 0.131	ug/m3	0.131	0.417	1	TO-15		7/23/2019	CJR	1
Toluene	53	ug/m3	0.184	0.585	1	TO-15		7/23/2019	CJR	1
1,2,4-Trichlorobenzene	< 0.657	ug/m3	0.657	2.09	1	TO-15		7/23/2019	CJR	1
1,1,1-Trichloroethane	< 0.249	ug/m3	0.249	0.793	1	TO-15		7/23/2019	CJR	1
1,1,2-Trichloroethane	< 0.258	ug/m3	0.258	0.822	1	TO-15		7/23/2019	CJR	1
Trichloroethene (TCE)	< 0.237	ug/m3	0.237	0.754	1	TO-15		7/23/2019	CJR	1
Trichlorofluoromethane	2.02	ug/m3	0.337	1.07	1	TO-15		7/23/2019	CJR	1
Trichlorotrifluoroethane	0.69 "J"	ug/m3	0.402	1.28	1	TO-15		7/23/2019	CJR	1
1,2,4-Trimethylbenzene	11.9	ug/m3	0.283	0.899	1	TO-15		7/23/2019	CJR	1
1,3,5-Trimethylbenzene	2.7	ug/m3	0.232	0.739	1	TO-15		7/23/2019	CJR	1
Vinyl acetate	< 0.203	ug/m3	0.203	0.645	1	TO-15		7/23/2019	CJR	1
Vinyl Chloride	0.33 "J"	ug/m3	0.148	0.472	1	TO-15		7/23/2019	CJR	1
m&p-Xylene	26.2	ug/m3	0.377	1.2	1	TO-15		7/23/2019	CJR	1
o-Xylene	10.5	ug/m3	0.218	0.695	1	TO-15		7/23/2019	CJR	1





August 8, 2019

SALVADORE VELESQUES  
2604 CUSTER STREET  
MANITOWOC WI 54220

SUBJECT: Vapor Sampling Results - Contaminant Detection Below DNR Screening Level  
PROPERTY: WI DOT – Susies Restaurant (Former) – LGU-SL, 1020 S. 26th Street, Manitowoc, WI  
BRRTS Activity # 02-36-000516

Dear Mr. Velesques:

Included are the findings of a recent investigation on your property at 2614 Custer Street by the Wisconsin Department of Natural Resources (DNR).

As you are aware, this investigation was conducted because of the potential for contaminant vapors from the nearby WI DOT - Susies Restaurant (Former) property, identified above, to migrate through soils, accumulate beneath the foundation of your residence and business, and possibly enter your indoor air. The contaminant of concern at the WI DOT - Susies Restaurant (Former) property is Trichloroethene, or TCE. The history of this site and the potential concerns to neighboring residents were described in detail in the original letter sent to your business.

On July 18, 2019, an environmental consultant hired by DNR installed a sampling device into the floor of your foundation at 2614 Custer Street and collected soil vapor samples. The sample was then submitted to the Synergy Environmental Lab, Inc., where they underwent laboratory analysis for sixty-four different volatile organic compounds (VOCs).

Additionally, on July 17, 2019, the environmental consultant hired by DNR collected two 24-hour indoor air samples from the first floor and basement of the 2614 Custer Street residence. The samples were then submitted to the Synergy Environmental Lab, Inc., where they underwent laboratory analysis for VOCs.

### Your Test Results

Attached is a copy of the laboratory report for your sub-slab and indoor air samples. The results show that a small amount of TCE was detected in the sample taken from beneath your foundation and from the indoor air on the first floor of the residence at 2614 Custer Street. Although TCE was detected in soil vapors beneath your foundation floor and on the first floor of the residence, the level at which it was detected is such that it does not pose a threat to you or your family. This is called “a detection below screening level” and is explained in the enclosed fact sheet. The results from the basement indoor air sample shows that TCE was not detected.

At this time, there does not appear to be a risk of TCE vapor entering your building from beneath the foundation at 2614 Custer Street. Additional sampling was conducted on August 7, 2019 in order to confirm these results. A letter will be sent to you following receipt of results from the August sampling event.

The laboratory report also shows very low levels of VOCs other than TCE in soil vapors from the basement indoor air and vapors beneath your residence. Two of the VOCs, Chloroform and Naphthalene were elevated in the first floor indoor air sample, but were not detected or detected well below DNR screening levels in the basement indoor air and sub-slab vapor samples. These detections are likely due to trace amounts of VOCs from

August 8, 2019  
Salvador Velesques  
Vapor Sampling Results  
WI DOT – Susies Restaurant (Former), BRRTS #02-36-000516

Page 2 of 2

products such as paints, adhesives, fragrances, etc. that are commonly found in the typical home or office, so are unrelated to the contamination from activities that took place at the WI DOT - Susies Restaurant (Former) property in the past.

Please feel free to contact me at (920) 662-5443 or by email to [Sarah.Krueger@wisconsin.gov](mailto:Sarah.Krueger@wisconsin.gov) if you have any questions about these results.

Sincerely,



Sarah Krueger  
Project Manager  
Remediation & Redevelopment Program


Encl. Understanding Chemical Vapor Testing Results, [RR977](#)

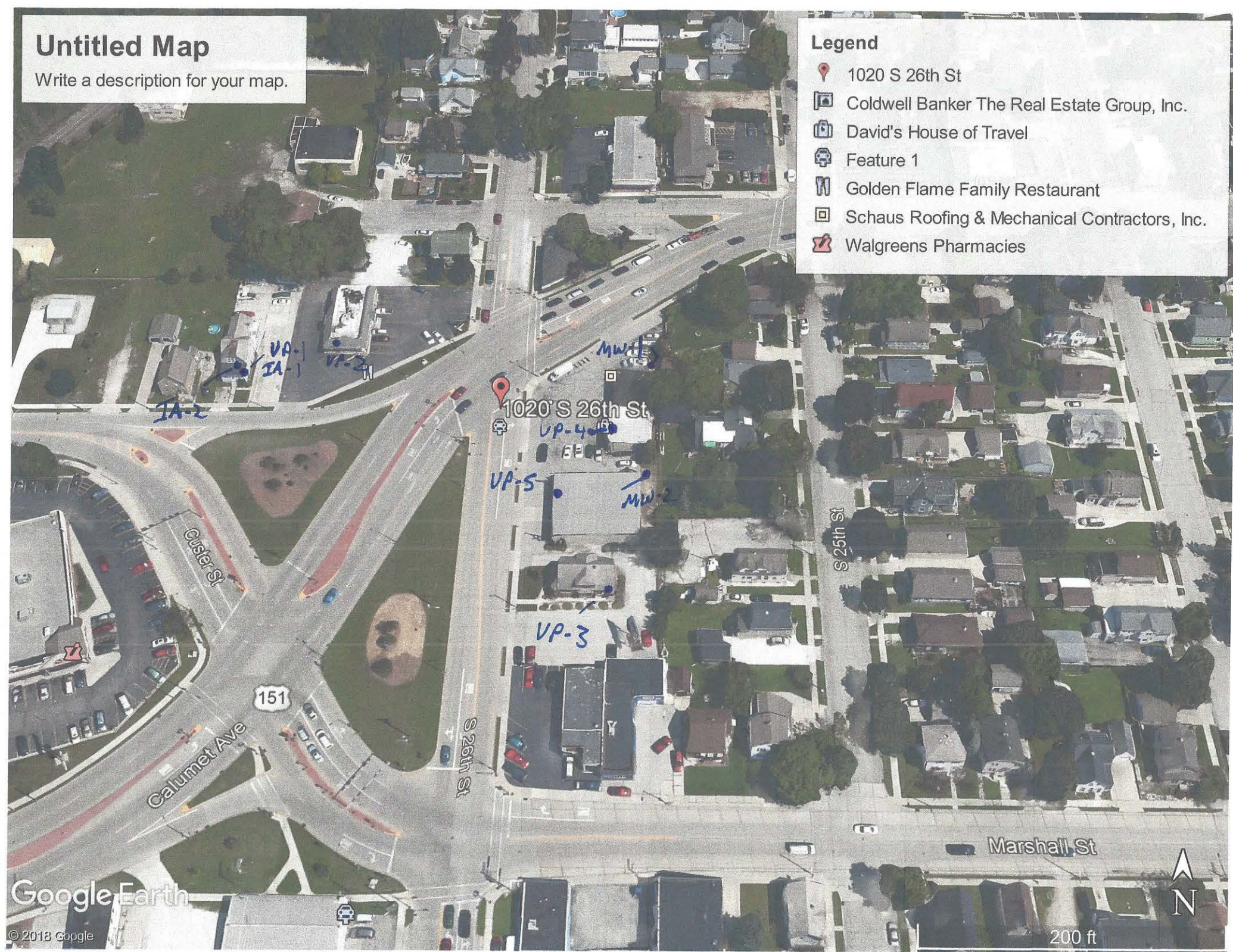
Att. Laboratory Analytical Report  
Sample Location Figure

# Untitled Map

Write a description for your map.

## Legend

-  1020 S 26th St
-  Coldwell Banker The Real Estate Group, Inc.
-  David's House of Travel
-  Feature 1
-  Golden Flame Family Restaurant
-  Schaus Roofing & Mechanical Contractors, Inc.
-  Walgreens Pharmacies



Google Earth

© 2018 Google



200 ft

# Synergy Environmental Lab, INC

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

BRIAN YOUNGWIRTH  
GENERAL ENGINEERING  
916 SILVER LAKE DRIVE  
PORTAGE, WI 53901

Report Date 30-Jul-19

Project Name SUSIES RESTAURANT  
Project #

Invoice # E36505

Lab Code 5036505A  
Sample ID BASEMENT IA-1  
Sample Matrix Air  
Sample Date 7/17/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
Air Samples										
Acetone	93	ug/m3	0.299	0.95	1	TO-15		7/22/2019	CJR	1
Acrolein	1.26	ug/m3	0.094	0.299	1	TO-15		7/22/2019	CJR	1
Benzene	0.96	ug/m3	0.136	0.433	1	TO-15		7/22/2019	CJR	1
Benzyl Chloride	< 0.209	ug/m3	0.209	0.665	1	TO-15		7/22/2019	CJR	1
Bromodichloromethane	< 0.374	ug/m3	0.374	1.19	1	TO-15		7/22/2019	CJR	1
Bromoform	< 0.414	ug/m3	0.414	1.32	1	TO-15		7/22/2019	CJR	1
Bromomethane	< 0.2	ug/m3	0.2	0.637	1	TO-15		7/22/2019	CJR	1
1,3-Butadiene	< 0.143	ug/m3	0.143	0.454	1	TO-15		7/22/2019	CJR	1
Carbon Disulfide	0.4 "J"	ug/m3	0.138	0.44	1	TO-15		7/22/2019	CJR	1
Carbon Tetrachloride	0.44 "J"	ug/m3	0.307	0.978	1	TO-15		7/22/2019	CJR	1
Chlorobenzene	< 0.251	ug/m3	0.251	0.798	1	TO-15		7/22/2019	CJR	1
Chloroethane	< 0.159	ug/m3	0.159	0.507	1	TO-15		7/22/2019	CJR	1
Chloroform	0.44 "J"	ug/m3	0.3	0.953	1	TO-15		7/22/2019	CJR	1
Chloromethane	1.3 "J"	ug/m3	0.831	2.64	1	TO-15		7/22/2019	CJR	1
Cyclohexane	0.45 "J"	ug/m3	0.212	0.674	1	TO-15		7/22/2019	CJR	1
Dibromochloromethane	< 0.376	ug/m3	0.376	1.2	1	TO-15		7/22/2019	CJR	1
1,4-Dichlorobenzene	155	ug/m3	0.302	0.96	1	TO-15		7/22/2019	CJR	1
1,3-Dichlorobenzene	< 0.302	ug/m3	0.302	0.96	1	TO-15		7/22/2019	CJR	1
1,2-Dichlorobenzene	< 0.235	ug/m3	0.235	0.749	1	TO-15		7/22/2019	CJR	1
Dichlorodifluoromethane	2.67	ug/m3	0.263	0.836	1	TO-15		7/22/2019	CJR	1
1,2-Dichloroethane	< 0.24	ug/m3	0.24	0.763	1	TO-15		7/22/2019	CJR	1
1,1-Dichloroethane	< 0.187	ug/m3	0.187	0.596	1	TO-15		7/22/2019	CJR	1
1,1-Dichloroethene	< 0.21	ug/m3	0.21	0.668	1	TO-15		7/22/2019	CJR	1
cis-1,2-Dichloroethene	< 0.197	ug/m3	0.197	0.626	1	TO-15		7/22/2019	CJR	1
trans-1,2-Dichloroethene	< 0.231	ug/m3	0.231	0.734	1	TO-15		7/22/2019	CJR	1

**Lab Code** 5036505A  
**Sample ID** BASEMENT IA-1  
**Sample Matrix** Air  
**Sample Date** 7/17/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2-Dichloropropane	< 0.28	ug/m3	0.28	0.89	1	TO-15		7/22/2019	CJR	1
trans-1,3-Dichloropropene	< 0.198	ug/m3	0.198	0.63	1	TO-15		7/22/2019	CJR	1
cis-1,3-Dichloropropene	< 0.234	ug/m3	0.234	0.745	1	TO-15		7/22/2019	CJR	1
1,2-Dichlorotetrafluoroethane	< 0.446	ug/m3	0.446	1.42	1	TO-15		7/22/2019	CJR	1
1,4-Dioxane	< 0.157	ug/m3	0.157	0.5	1	TO-15		7/22/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.342	ug/m3	0.342	1.09	1	TO-15		7/22/2019	CJR	1
Ethanol	177	ug/m3	0.152	0.482	1	TO-15		7/22/2019	CJR	10
Ethyl Acetate	4.9	ug/m3	0.176	0.559	1	TO-15		7/22/2019	CJR	1
Ethylbenzene	1.0	ug/m3	0.203	0.645	1	TO-15		7/22/2019	CJR	1
4-Ethyltoluene	0.44 "J"	ug/m3	0.214	0.681	1	TO-15		7/22/2019	CJR	1
Heptane	0.65 "J"	ug/m3	0.265	0.845	1	TO-15		7/22/2019	CJR	1
Hexachlorobutadiene	< 0.489	ug/m3	0.489	1.56	1	TO-15		7/22/2019	CJR	1
Hexane	4.1	ug/m3	0.235	0.748	1	TO-15		7/22/2019	CJR	1
2-Hexanone	0.74	ug/m3	0.222	0.707	1	TO-15		7/22/2019	CJR	1
Isopropyl Alcohol	245	ug/m3	0.109	0.347	1	TO-15		7/22/2019	CJR	10
Methyl ethyl ketone (MEK)	1.71	ug/m3	0.178	0.567	1	TO-15		7/22/2019	CJR	1
Methyl isobutyl ketone (MIBK)	0.57	ug/m3	0.168	0.536	1	TO-15		7/22/2019	CJR	1
Methyl Methacrylate	< 0.217	ug/m3	0.217	0.69	1	TO-15		7/22/2019	CJR	1
Methylene chloride	< 15	ug/m3	0.159	0.506	1	TO-15		7/22/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.16	ug/m3	0.16	0.509	1	TO-15		7/22/2019	CJR	1
Naphthalene	< 0.675	ug/m3	0.675	2.15	1	TO-15		7/22/2019	CJR	1
Propene	4.3	ug/m3	0.079	0.251	1	TO-15		7/22/2019	CJR	1
Styrene	0.38 "J"	ug/m3	0.181	0.577	1	TO-15		7/22/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.325	ug/m3	0.325	1.03	1	TO-15		7/22/2019	CJR	1
Tetrachloroethene	< 0.278	ug/m3	0.278	0.884	1	TO-15		7/22/2019	CJR	1
Tetrahydrofuran	< 0.131	ug/m3	0.131	0.417	1	TO-15		7/22/2019	CJR	1
Toluene	2.22	ug/m3	0.184	0.585	1	TO-15		7/22/2019	CJR	1
1,2,4-Trichlorobenzene	< 0.657	ug/m3	0.657	2.09	1	TO-15		7/22/2019	CJR	1
1,1,1-Trichloroethane	< 0.249	ug/m3	0.249	0.793	1	TO-15		7/22/2019	CJR	1
1,1,2-Trichloroethane	< 0.258	ug/m3	0.258	0.822	1	TO-15		7/22/2019	CJR	1
Trichloroethene (TCE)	< 0.237	ug/m3	0.237	0.754	1	TO-15		7/22/2019	CJR	1
Trichlorofluoromethane	1.46	ug/m3	0.337	1.07	1	TO-15		7/22/2019	CJR	1
Trichlorotrifluoroethane	0.54 "J"	ug/m3	0.402	1.28	1	TO-15		7/22/2019	CJR	1
1,2,4-Trimethylbenzene	1.52	ug/m3	0.283	0.899	1	TO-15		7/22/2019	CJR	1
1,3,5-Trimethylbenzene	0.44 "J"	ug/m3	0.232	0.739	1	TO-15		7/22/2019	CJR	1
Vinyl acetate	< 0.203	ug/m3	0.203	0.645	1	TO-15		7/22/2019	CJR	1
Vinyl Chloride	< 0.148	ug/m3	0.148	0.472	1	TO-15		7/22/2019	CJR	1
m&p-Xylene	2.21	ug/m3	0.377	1.2	1	TO-15		7/22/2019	CJR	1
o-Xylene	0.43 "J"	ug/m3	0.218	0.695	1	TO-15		7/22/2019	CJR	1

Lab Code 5036505B  
 Sample ID 1ST FLOOR IA-2  
 Sample Matrix Air  
 Sample Date 7/17/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
Air Samples										
Acetone	126	ug/m3	14.95	47.5	50	TO-15		7/25/2019	CJR	1
Acrolein	2.84	ug/m3	0.094	0.299	1	TO-15		7/22/2019	CJR	1
Benzene	0.57	ug/m3	0.136	0.433	1	TO-15		7/22/2019	CJR	1
Benzyl Chloride	< 0.209	ug/m3	0.209	0.665	1	TO-15		7/22/2019	CJR	1
Bromodichloromethane	< 0.374	ug/m3	0.374	1.19	1	TO-15		7/22/2019	CJR	1
Bromoform	< 0.414	ug/m3	0.414	1.32	1	TO-15		7/22/2019	CJR	1
Bromomethane	< 0.2	ug/m3	0.2	0.637	1	TO-15		7/22/2019	CJR	1
1,3-Butadiene	< 0.143	ug/m3	0.143	0.454	1	TO-15		7/22/2019	CJR	1
Carbon Disulfide	0.4 "J"	ug/m3	0.138	0.44	1	TO-15		7/22/2019	CJR	1
Carbon Tetrachloride	0.5 "J"	ug/m3	0.307	0.978	1	TO-15		7/22/2019	CJR	1
Chlorobenzene	< 0.251	ug/m3	0.251	0.798	1	TO-15		7/22/2019	CJR	1
Chloroethane	< 0.159	ug/m3	0.159	0.507	1	TO-15		7/22/2019	CJR	1
Chloroform	3.9	ug/m3	0.3	0.953	1	TO-15		7/22/2019	CJR	1
Chloromethane	1.73 "J"	ug/m3	0.831	2.64	1	TO-15		7/22/2019	CJR	1
Cyclohexane	0.38 "J"	ug/m3	0.212	0.674	1	TO-15		7/22/2019	CJR	1
Dibromochloromethane	< 0.376	ug/m3	0.376	1.2	1	TO-15		7/22/2019	CJR	1
1,4-Dichlorobenzene	790	ug/m3	15.1	48	50	TO-15		7/25/2019	CJR	1
1,3-Dichlorobenzene	< 0.302	ug/m3	0.302	0.96	1	TO-15		7/22/2019	CJR	1
1,2-Dichlorobenzene	< 0.235	ug/m3	0.235	0.749	1	TO-15		7/22/2019	CJR	1
Dichlorodifluoromethane	2.62	ug/m3	0.263	0.836	1	TO-15		7/22/2019	CJR	1
1,2-Dichloroethane	< 0.24	ug/m3	0.24	0.763	1	TO-15		7/22/2019	CJR	1
1,1-Dichloroethane	< 0.187	ug/m3	0.187	0.596	1	TO-15		7/22/2019	CJR	1
1,1-Dichloroethene	< 0.21	ug/m3	0.21	0.668	1	TO-15		7/22/2019	CJR	1
cis-1,2-Dichloroethene	< 0.197	ug/m3	0.197	0.626	1	TO-15		7/22/2019	CJR	1
trans-1,2-Dichloroethene	< 0.231	ug/m3	0.231	0.734	1	TO-15		7/22/2019	CJR	1
1,2-Dichloropropane	< 0.28	ug/m3	0.28	0.89	1	TO-15		7/22/2019	CJR	1
trans-1,3-Dichloropropene	< 0.198	ug/m3	0.198	0.63	1	TO-15		7/22/2019	CJR	1
cis-1,3-Dichloropropene	< 0.234	ug/m3	0.234	0.745	1	TO-15		7/22/2019	CJR	1
1,2-Dichlorotetrafluoroethane	< 0.446	ug/m3	0.446	1.42	1	TO-15		7/22/2019	CJR	1
1,4-Dioxane	< 0.157	ug/m3	0.157	0.5	1	TO-15		7/22/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.342	ug/m3	0.342	1.09	1	TO-15		7/22/2019	CJR	1
Ethanol	1250	ug/m3	7.6	24.1	50	TO-15		7/25/2019	CJR	1
Ethyl Acetate	51	ug/m3	0.176	0.559	1	TO-15		7/22/2019	CJR	1
Ethylbenzene	0.78	ug/m3	0.203	0.645	1	TO-15		7/22/2019	CJR	1
4-Ethyltoluene	< 0.214	ug/m3	0.214	0.681	1	TO-15		7/22/2019	CJR	1
Heptane	0.57 "J"	ug/m3	0.265	0.845	1	TO-15		7/22/2019	CJR	1
Hexachlorobutadiene	< 0.489	ug/m3	0.489	1.56	1	TO-15		7/22/2019	CJR	1
Hexane	3.3	ug/m3	0.235	0.748	1	TO-15		7/22/2019	CJR	1
2-Hexanone	0.82	ug/m3	0.222	0.707	1	TO-15		7/22/2019	CJR	1
Isopropyl Alcohol	1750	ug/m3	5.45	17.35	50	TO-15		7/25/2019	CJR	1
Methyl ethyl ketone (MEK)	2.95	ug/m3	0.178	0.567	1	TO-15		7/22/2019	CJR	1
Methyl isobutyl ketone (MIBK)	0.78	ug/m3	0.168	0.536	1	TO-15		7/22/2019	CJR	1
Methyl Methacrylate	< 0.217	ug/m3	0.217	0.69	1	TO-15		7/22/2019	CJR	1
Methylene chloride	< 15	ug/m3	0.159	0.506	1	TO-15		7/22/2019	CJR	1

**Project Name** SUSIES RESTAURANT  
**Project #**

**Invoice #** E36505

**Lab Code** 5036505B  
**Sample ID** 1ST FLOOR IA-2  
**Sample Matrix** Air  
**Sample Date** 7/17/2019

	<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>
Methyl tert-butyl ether (MTBE)	< 0.16	ug/m3	0.16	0.509	1	TO-15		7/22/2019	CJR	1
Naphthalene	0.89 "J"	ug/m3	0.675	2.15	1	TO-15		7/22/2019	CJR	1
Propene	1.69	ug/m3	0.079	0.251	1	TO-15		7/22/2019	CJR	1
Styrene	0.81	ug/m3	0.181	0.577	1	TO-15		7/22/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.325	ug/m3	0.325	1.03	1	TO-15		7/22/2019	CJR	1
Tetrachloroethene	< 0.278	ug/m3	0.278	0.884	1	TO-15		7/22/2019	CJR	1
Tetrahydrofuran	< 0.131	ug/m3	0.131	0.417	1	TO-15		7/22/2019	CJR	1
Toluene	2.56	ug/m3	0.184	0.585	1	TO-15		7/22/2019	CJR	1
1,2,4-Trichlorobenzene	< 0.657	ug/m3	0.657	2.09	1	TO-15		7/22/2019	CJR	1
1,1,1-Trichloroethane	< 0.249	ug/m3	0.249	0.793	1	TO-15		7/22/2019	CJR	1
1,1,2-Trichloroethane	< 0.258	ug/m3	0.258	0.822	1	TO-15		7/22/2019	CJR	1
Trichloroethene (TCE)	0.37 "J"	ug/m3	0.237	0.754	1	TO-15		7/22/2019	CJR	1
Trichlorofluoromethane	2.47	ug/m3	0.337	1.07	1	TO-15		7/22/2019	CJR	1
Trichlorotrifluoroethane	0.54 "J"	ug/m3	0.402	1.28	1	TO-15		7/22/2019	CJR	1
1,2,4-Trimethylbenzene	0.83 "J"	ug/m3	0.283	0.899	1	TO-15		7/22/2019	CJR	1
1,3,5-Trimethylbenzene	0.245 "J"	ug/m3	0.232	0.739	1	TO-15		7/22/2019	CJR	1
Vinyl acetate	< 0.203	ug/m3	0.203	0.645	1	TO-15		7/22/2019	CJR	1
Vinyl Chloride	< 0.148	ug/m3	0.148	0.472	1	TO-15		7/22/2019	CJR	1
m&p-Xylene	1.78	ug/m3	0.377	1.2	1	TO-15		7/22/2019	CJR	1
o-Xylene	0.52 "J"	ug/m3	0.218	0.695	1	TO-15		7/22/2019	CJR	1

Lab Code 5036505C  
 Sample ID VP-1  
 Sample Matrix Air  
 Sample Date 7/18/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
Air Samples										
Acetone	86	ug/m3	0.299	0.95	1	TO-15		7/23/2019	CJR	1
Acrolein	0.44	ug/m3	0.094	0.299	1	TO-15		7/23/2019	CJR	1
Benzene	8.4	ug/m3	0.136	0.433	1	TO-15		7/23/2019	CJR	1
Benzyl Chloride	< 0.209	ug/m3	0.209	0.665	1	TO-15		7/23/2019	CJR	1
Bromodichloromethane	< 0.374	ug/m3	0.374	1.19	1	TO-15		7/23/2019	CJR	1
Bromoform	< 0.414	ug/m3	0.414	1.32	1	TO-15		7/23/2019	CJR	1
Bromomethane	< 0.2	ug/m3	0.2	0.637	1	TO-15		7/23/2019	CJR	1
1,3-Butadiene	< 0.143	ug/m3	0.143	0.454	1	TO-15		7/23/2019	CJR	1
Carbon Disulfide	3.6	ug/m3	0.138	0.44	1	TO-15		7/23/2019	CJR	1
Carbon Tetrachloride	< 0.307	ug/m3	0.307	0.978	1	TO-15		7/23/2019	CJR	1
Chlorobenzene	< 0.251	ug/m3	0.251	0.798	1	TO-15		7/23/2019	CJR	1
Chloroethane	< 0.159	ug/m3	0.159	0.507	1	TO-15		7/23/2019	CJR	1
Chloroform	0.63 "J"	ug/m3	0.3	0.953	1	TO-15		7/23/2019	CJR	1
Chloromethane	< 0.831	ug/m3	0.831	2.64	1	TO-15		7/23/2019	CJR	1
Cyclohexane	7.0	ug/m3	0.212	0.674	1	TO-15		7/23/2019	CJR	1
Dibromochloromethane	< 0.376	ug/m3	0.376	1.2	1	TO-15		7/23/2019	CJR	1
1,4-Dichlorobenzene	1.56	ug/m3	0.302	0.96	1	TO-15		7/23/2019	CJR	1
1,3-Dichlorobenzene	< 0.302	ug/m3	0.302	0.96	1	TO-15		7/23/2019	CJR	1
1,2-Dichlorobenzene	0.35 "J"	ug/m3	0.235	0.749	1	TO-15		7/23/2019	CJR	1
Dichlorodifluoromethane	3.02	ug/m3	0.263	0.836	1	TO-15		7/23/2019	CJR	1
1,2-Dichloroethane	< 0.24	ug/m3	0.24	0.763	1	TO-15		7/23/2019	CJR	1
1,1-Dichloroethane	< 0.187	ug/m3	0.187	0.596	1	TO-15		7/23/2019	CJR	1
1,1-Dichloroethene	< 0.21	ug/m3	0.21	0.668	1	TO-15		7/23/2019	CJR	1
cis-1,2-Dichloroethene	0.40 "J"	ug/m3	0.197	0.626	1	TO-15		7/23/2019	CJR	1
trans-1,2-Dichloroethene	0.238 "J"	ug/m3	0.231	0.734	1	TO-15		7/23/2019	CJR	1
1,2-Dichloropropane	< 0.28	ug/m3	0.28	0.89	1	TO-15		7/23/2019	CJR	1
trans-1,3-Dichloropropene	< 0.198	ug/m3	0.198	0.63	1	TO-15		7/23/2019	CJR	1
cis-1,3-Dichloropropene	< 0.234	ug/m3	0.234	0.745	1	TO-15		7/23/2019	CJR	1
1,2-Dichlorotetrafluoroethane	< 0.446	ug/m3	0.446	1.42	1	TO-15		7/23/2019	CJR	1
1,4-Dioxane	< 0.157	ug/m3	0.157	0.5	1	TO-15		7/23/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.342	ug/m3	0.342	1.09	1	TO-15		7/23/2019	CJR	1
Ethanol	90	ug/m3	0.152	0.482	1	TO-15		7/23/2019	CJR	10
Ethyl Acetate	< 0.176	ug/m3	0.176	0.559	1	TO-15		7/23/2019	CJR	1
Ethylbenzene	8.5	ug/m3	0.203	0.645	1	TO-15		7/23/2019	CJR	1
4-Ethyltoluene	3.2	ug/m3	0.214	0.681	1	TO-15		7/23/2019	CJR	1
Heptane	19.2	ug/m3	0.265	0.845	1	TO-15		7/23/2019	CJR	1
Hexachlorobutadiene	< 0.489	ug/m3	0.489	1.56	1	TO-15		7/23/2019	CJR	1
Hexane	28.2	ug/m3	0.235	0.748	1	TO-15		7/23/2019	CJR	1
2-Hexanone	< 0.222	ug/m3	0.222	0.707	1	TO-15		7/23/2019	CJR	1
Isopropyl Alcohol	10.2	ug/m3	0.109	0.347	1	TO-15		7/23/2019	CJR	1
Methyl ethyl ketone (MEK)	8.3	ug/m3	0.178	0.567	1	TO-15		7/23/2019	CJR	1
Methyl isobutyl ketone (MIBK)	1.23	ug/m3	0.168	0.536	1	TO-15		7/23/2019	CJR	1
Methyl Methacrylate	< 0.217	ug/m3	0.217	0.69	1	TO-15		7/23/2019	CJR	1
Methylene chloride	< 15	ug/m3	0.159	0.506	1	TO-15		7/23/2019	CJR	1



**Project Name** SUSIES RESTAURANT  
**Project #**

**Invoice #** E36505

**Lab Code** 5036505C  
**Sample ID** VP-1  
**Sample Matrix** Air  
**Sample Date** 7/18/2019

	<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>
Methyl tert-butyl ether (MTBE)	< 0.16	ug/m3	0.16	0.509	1	TO-15		7/23/2019	CJR	1
Naphthalene	2.56	ug/m3	0.675	2.15	1	TO-15		7/23/2019	CJR	1
Propene	48	ug/m3	0.079	0.251	1	TO-15		7/23/2019	CJR	1
Styrene	0.64	ug/m3	0.181	0.577	1	TO-15		7/23/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.325	ug/m3	0.325	1.03	1	TO-15		7/23/2019	CJR	1
Tetrachloroethene	8.5	ug/m3	0.278	0.884	1	TO-15		7/23/2019	CJR	1
Tetrahydrofuran	< 0.131	ug/m3	0.131	0.417	1	TO-15		7/23/2019	CJR	1
Toluene	38	ug/m3	0.184	0.585	1	TO-15		7/23/2019	CJR	1
1,2,4-Trichlorobenzene	< 0.657	ug/m3	0.657	2.09	1	TO-15		7/23/2019	CJR	1
1,1,1-Trichloroethane	0.65 "J"	ug/m3	0.249	0.793	1	TO-15		7/23/2019	CJR	1
1,1,2-Trichloroethane	< 0.258	ug/m3	0.258	0.822	1	TO-15		7/23/2019	CJR	1
Trichloroethene (TCE)	5.5	ug/m3	0.237	0.754	1	TO-15		7/23/2019	CJR	1
Trichlorofluoromethane	1.24	ug/m3	0.337	1.07	1	TO-15		7/23/2019	CJR	1
Trichlorotrifluoroethane	0.61 "J"	ug/m3	0.402	1.28	1	TO-15		7/23/2019	CJR	1
1,2,4-Trimethylbenzene	12.5	ug/m3	0.283	0.899	1	TO-15		7/23/2019	CJR	1
1,3,5-Trimethylbenzene	3.09	ug/m3	0.232	0.739	1	TO-15		7/23/2019	CJR	1
Vinyl acetate	< 0.203	ug/m3	0.203	0.645	1	TO-15		7/23/2019	CJR	1
Vinyl Chloride	< 0.148	ug/m3	0.148	0.472	1	TO-15		7/23/2019	CJR	1
m&p-Xylene	23.8	ug/m3	0.377	1.2	1	TO-15		7/23/2019	CJR	1
o-Xylene	9.9	ug/m3	0.218	0.695	1	TO-15		7/23/2019	CJR	1



August 8, 2019

SALVADORE VELESQUES  
2604 CUSTER STREET  
MANITOWOC WI 54220

SUBJECT: Vapor Sampling Results - Contaminant Detection Above DNR Screening Level  
PROPERTY: WI DOT – Susies Restaurant (Former) – LGU-SL, 1020 S. 26th Street, Manitowoc, WI  
BRRTS Activity # 02-36-000516

Dear Mr. Velesques:

Included are the findings of a recent investigation on your property at 2604 Custer Street by the Wisconsin Department of Natural Resources (DNR).

As you are aware, this investigation was conducted because of the potential for contaminant vapors from the nearby WI DOT - Susies Restaurant (Former) property, identified above, to migrate through soils, accumulate beneath the foundation of your residence and business, and possibly enter your indoor air. The contaminant of concern at the WI DOT - Susies Restaurant (Former) property is Trichloroethene, or TCE. The history of this site and the potential concerns to neighboring residents were described in detail in the original letter sent to your business.

On July 18, 2019, an environmental consultant hired by DNR installed a sampling device into the floor of your foundation at 2604 Custer Street and collected soil vapor samples. The sample was then submitted to the Synergy Environmental Lab, Inc., where it underwent laboratory analysis for sixty-four different volatile organic compounds (VOCs).

### Your Test Results

Attached is a copy of the laboratory report for your sub-slab air samples.

The analysis of the sample taken at your business at 2604 Custer Street detected TCE beneath your foundation floor at 1160 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ). The DNR screening level for TCE beneath the floor is 290  $\mu\text{g}/\text{m}^3$ .

The DNR action level for TCE is set to provide a threshold concentration that is protective of human health over long-term exposure.

You may have questions about how breathing these vapors may affect your health. Please contact Curtis Headman with the Wisconsin Department of Health Services (DHS), at (608) 266-6677 or via email to [Curtis.Hedman@dhs.wisconsin.gov](mailto:Curtis.Hedman@dhs.wisconsin.gov), who can address your health questions and concerns.

The laboratory report also shows very low levels of VOCs other than TCE in soil vapors from beneath your residence and business. This is likely due to trace amounts of VOCs from products such as paints, adhesives, fragrances, etc. that are commonly found in the typical home or office, and unrelated to the activities that took place at WI DOT - Susies Restaurant (Former) in the past.

August 8, 2019  
Salvador Velesques  
Vapor Sampling Results  
WI DOT – Susies Restaurant (Former), BRRTS #02-36-000516

Page 2 of 2

### **Next Steps**

We recommend the following actions at this time:

We collected indoor air samples from the business on August 7, 2019 into August 8, 2019 to test for TCE, which will allow us to determine whether you and your employees are breathing elevated TCE vapors. This also allows us to assess how effectively your foundation is blocking sub-slab vapors from entering your indoor air.

Please feel free to contact me at (920) 662-5443 or by email to [Sarah.Krueger@wisconsin.gov](mailto:Sarah.Krueger@wisconsin.gov) if you have any questions about these results.

Sincerely,



Sarah Krueger  
Project Manager  
Remediation & Redevelopment Program

Encl. Understanding Chemical Vapor Testing Results, [RR977](#)

Att. Laboratory Analytical Report  
Sample Location Figure

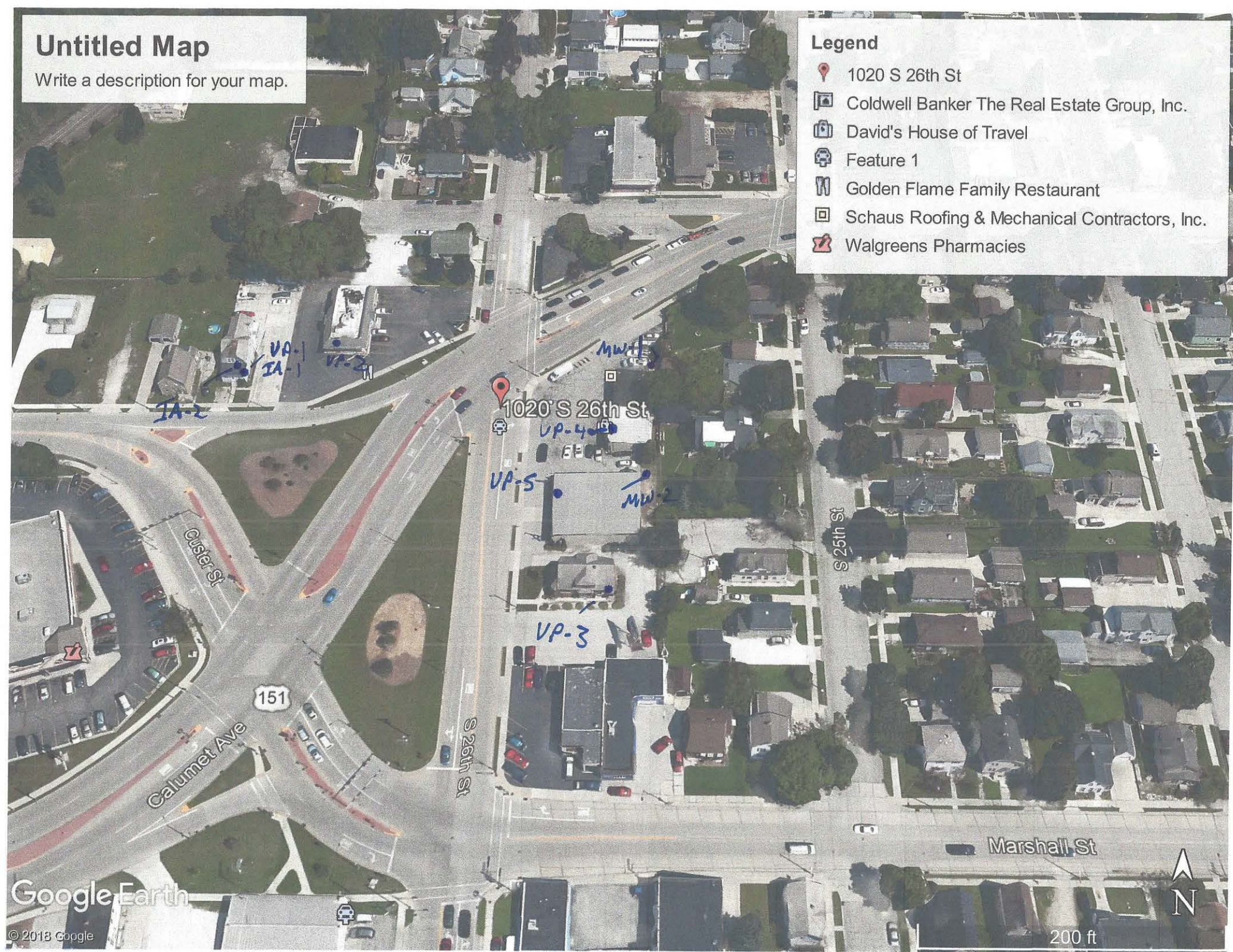
cc. Curtis Hedman, Wisconsin Dept. of Health Services, 1 W. Wilson St., PO Box 2659, Madison, WI 53703

# Untitled Map

Write a description for your map.

## Legend

-  1020 S 26th St
-  Coldwell Banker The Real Estate Group, Inc.
-  David's House of Travel
-  Feature 1
-  Golden Flame Family Restaurant
-  Schaus Roofing & Mechanical Contractors, Inc.
-  Walgreens Pharmacies



Google Earth

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200 ft

Lab Code 5036505D  
 Sample ID VP-2  
 Sample Matrix Air  
 Sample Date 7/18/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
Air Samples										
Acetone	96	ug/m3	7.475	23.75	25	TO-15		7/25/2019	CJR	1
Acrolein	< 2.35	ug/m3	2.35	7.475	25	TO-15		7/25/2019	CJR	1
Benzene	4 "J"	ug/m3	3.4	10.825	25	TO-15		7/25/2019	CJR	1
Benzyl Chloride	< 5.225	ug/m3	5.225	16.625	25	TO-15		7/25/2019	CJR	1
Bromodichloromethane	< 9.35	ug/m3	9.35	29.75	25	TO-15		7/25/2019	CJR	1
Bromoform	< 10.35	ug/m3	10.35	33	25	TO-15		7/25/2019	CJR	1
Bromomethane	< 5	ug/m3	5	15.925	25	TO-15		7/25/2019	CJR	1
1,3-Butadiene	< 3.575	ug/m3	3.575	11.35	25	TO-15		7/25/2019	CJR	1
Carbon Disulfide	< 3.45	ug/m3	3.45	11	25	TO-15		7/25/2019	CJR	1
Carbon Tetrachloride	< 7.675	ug/m3	7.675	24.45	25	TO-15		7/25/2019	CJR	1
Chlorobenzene	< 6.275	ug/m3	6.275	19.95	25	TO-15		7/25/2019	CJR	1
Chloroethane	< 3.975	ug/m3	3.975	12.675	25	TO-15		7/25/2019	CJR	1
Chloroform	< 7.5	ug/m3	7.5	23.825	25	TO-15		7/25/2019	CJR	1
Chloromethane	< 20.775	ug/m3	20.775	66	25	TO-15		7/25/2019	CJR	1
Cyclohexane	< 5.3	ug/m3	5.3	16.85	25	TO-15		7/25/2019	CJR	1
Dibromochloromethane	< 9.4	ug/m3	9.4	30	25	TO-15		7/25/2019	CJR	1
1,4-Dichlorobenzene	< 7.55	ug/m3	7.55	24	25	TO-15		7/25/2019	CJR	1
1,3-Dichlorobenzene	< 7.55	ug/m3	7.55	24	25	TO-15		7/25/2019	CJR	1
1,2-Dichlorobenzene	< 5.875	ug/m3	5.875	18.725	25	TO-15		7/25/2019	CJR	1
Dichlorodifluoromethane	< 6.575	ug/m3	6.575	20.9	25	TO-15		7/25/2019	CJR	1
1,2-Dichloroethane	< 6	ug/m3	6	19.075	25	TO-15		7/25/2019	CJR	1
1,1-Dichloroethane	< 4.675	ug/m3	4.675	14.9	25	TO-15		7/25/2019	CJR	1
1,1-Dichloroethene	< 5.25	ug/m3	5.25	16.7	25	TO-15		7/25/2019	CJR	1
cis-1,2-Dichloroethene	2360	ug/m3	4.925	15.65	25	TO-15		7/25/2019	CJR	1
trans-1,2-Dichloroethene	135	ug/m3	5.775	18.35	25	TO-15		7/25/2019	CJR	1
1,2-Dichloropropane	< 7	ug/m3	7	22.25	25	TO-15		7/25/2019	CJR	1
trans-1,3-Dichloropropene	< 4.95	ug/m3	4.95	15.75	25	TO-15		7/25/2019	CJR	1
cis-1,3-Dichloropropene	< 5.85	ug/m3	5.85	18.625	25	TO-15		7/25/2019	CJR	1
1,2-Dichlorotetrafluoroethane	< 11.15	ug/m3	11.15	35.5	25	TO-15		7/25/2019	CJR	1
1,4-Dioxane	< 3.925	ug/m3	3.925	12.5	25	TO-15		7/25/2019	CJR	1
EDB (1,2-Dibromoethane)	< 8.55	ug/m3	8.55	27.25	25	TO-15		7/25/2019	CJR	1
Ethanol	65	ug/m3	3.8	12.05	25	TO-15		7/25/2019	CJR	1
Ethyl Acetate	< 4.4	ug/m3	4.4	13.975	25	TO-15		7/25/2019	CJR	1
Ethylbenzene	7.6 "J"	ug/m3	5.075	16.125	25	TO-15		7/25/2019	CJR	1
4-Ethyltoluene	< 5.35	ug/m3	5.35	17.025	25	TO-15		7/25/2019	CJR	1
Heptane	8.2 "J"	ug/m3	6.625	21.125	25	TO-15		7/25/2019	CJR	1
Hexachlorobutadiene	< 12.225	ug/m3	12.225	39	25	TO-15		7/25/2019	CJR	1
Hexane	14.1 "J"	ug/m3	5.875	18.7	25	TO-15		7/25/2019	CJR	1
2-Hexanone	< 5.55	ug/m3	5.55	17.675	25	TO-15		7/25/2019	CJR	1
Isopropyl Alcohol	7.4 "J"	ug/m3	2.725	8.675	25	TO-15		7/25/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.45	ug/m3	4.45	14.175	25	TO-15		7/25/2019	CJR	1
Methyl isobutyl ketone (MIBK)	< 4.2	ug/m3	4.2	13.4	25	TO-15		7/25/2019	CJR	1
Methyl Methacrylate	< 5.425	ug/m3	5.425	17.25	25	TO-15		7/25/2019	CJR	1
Methylene chloride	< 375	ug/m3	3.975	12.65	25	TO-15		7/25/2019	CJR	1

**Project Name** SUSIES RESTAURANT  
**Project #**

**Invoice #** E36505

**Lab Code** 5036505D  
**Sample ID** VP-2  
**Sample Matrix** Air  
**Sample Date** 7/18/2019

	<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>
Methyl tert-butyl ether (MTBE)	< 4	ug/m3	4	12.725	25	TO-15		7/25/2019	CJR	1
Naphthalene	< 16.875	ug/m3	16.875	53.75	25	TO-15		7/25/2019	CJR	1
Propene	8.6	ug/m3	1.975	6.275	25	TO-15		7/25/2019	CJR	1
Styrene	< 4.525	ug/m3	4.525	14.425	25	TO-15		7/25/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 8.125	ug/m3	8.125	25.75	25	TO-15		7/25/2019	CJR	1
Tetrachloroethene	117	ug/m3	6.95	22.1	25	TO-15		7/25/2019	CJR	1
Tetrahydrofuran	< 3.275	ug/m3	3.275	10.425	25	TO-15		7/25/2019	CJR	1
Toluene	24.5	ug/m3	4.6	14.625	25	TO-15		7/25/2019	CJR	1
1,2,4-Trichlorobenzene	< 16.425	ug/m3	16.425	52.25	25	TO-15		7/25/2019	CJR	1
1,1,1-Trichloroethane	< 6.225	ug/m3	6.225	19.825	25	TO-15		7/25/2019	CJR	1
1,1,2-Trichloroethane	< 6.45	ug/m3	6.45	20.55	25	TO-15		7/25/2019	CJR	1
Trichloroethene (TCE)	1160	ug/m3	5.925	18.85	25	TO-15		7/25/2019	CJR	1
Trichlorofluoromethane	< 8.425	ug/m3	8.425	26.75	25	TO-15		7/25/2019	CJR	1
Trichlorotrifluoroethane	< 10.05	ug/m3	10.05	32	25	TO-15		7/25/2019	CJR	1
1,2,4-Trimethylbenzene	13.5 "J"	ug/m3	7.075	22.475	25	TO-15		7/25/2019	CJR	1
1,3,5-Trimethylbenzene	< 5.8	ug/m3	5.8	18.475	25	TO-15		7/25/2019	CJR	1
Vinyl acetate	< 5.075	ug/m3	5.075	16.125	25	TO-15		7/25/2019	CJR	1
Vinyl Chloride	10.2 "J"	ug/m3	3.7	11.8	25	TO-15		7/25/2019	CJR	1
m&p-Xylene	19.5 "J"	ug/m3	9.425	30	25	TO-15		7/25/2019	CJR	1
o-Xylene	8.7 "J"	ug/m3	5.45	17.375	25	TO-15		7/25/2019	CJR	1



# Understanding Chemical Vapor Intrusion Testing Results

## From the Lab to You

Chemical vapor samples were taken from underneath your house or building and possibly indoors as well. These samples have been tested by a certified laboratory and a report was issued. The Wisconsin Department of Natural Resources (DNR) uses these test results to determine if people in the building are being exposed to chemical vapors coming from nearby contaminated soil or groundwater, and to decide what, if any, action is needed to prevent this exposure.

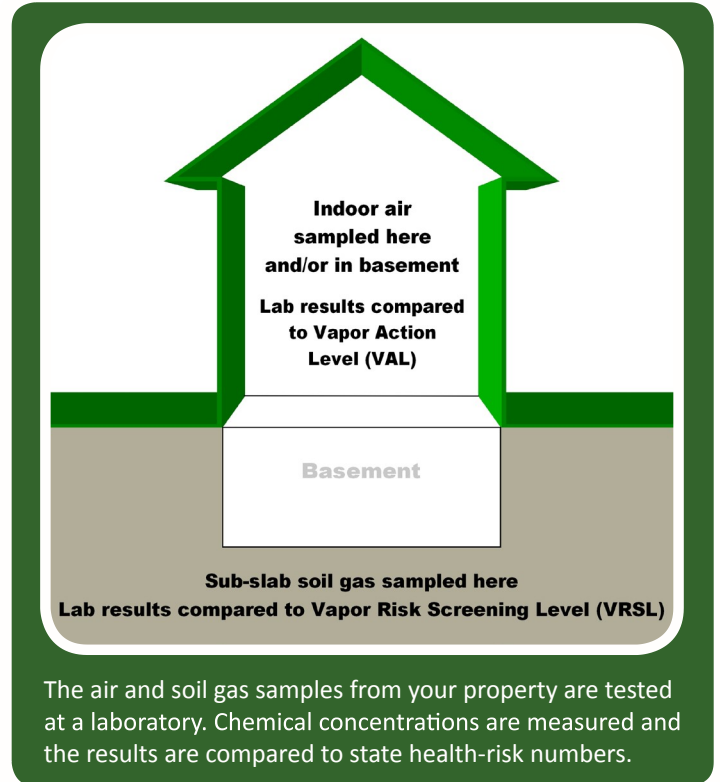
## Indoor Air Testing Results

If indoor air samples were collected in your house or building, test results from the lab will be compared to the state Vapor Action Level (VAL) for chemicals of concern. The VAL is a chemical compound's numerical value that represents a health hazard risk to no more than 1 in 100,000 people during a lifetime of exposure. If test results show chemical concentrations in your air below the VAL then adverse health effects are extremely rare, even if you were to breathe the chemical at this concentration for your entire life.

Test results showing chemical concentrations in the air at or above the VAL prompt DNR to recommend that exposure to these chemical vapors be reduced. If test results show concentrations significantly above the VAL, or more than one type of chemical vapor is identified in your indoor air, the risk from exposure increases. If the concentration of any indoor chemical vapor greatly exceeds the VAL, DNR is concerned about even short-term exposure and will typically require immediate action to address the problem.

The VAL for each chemical is set by scientific research. It is protective of all people, including those who are most susceptible to adverse health effects.

If test results identify chemicals in your air that are not present in nearby soil or groundwater contamination, it is likely that these vapors are coming from some product or activity in or near your house or building. Many everyday consumer products (e.g., cleaners, solvents, polish, adhesives, lubricants, aerosols, insect repellants, etc.); combustion processes (e.g., smoking, home heating); fuels in attached garages; dry cleaned clothing or draperies; and occupant activities (e.g., craft hobbies), also release chemical vapors into the air.



## Sub-slab Soil Gas Testing Results

Soil gas samples were collected from the ground beneath the concrete slab of your building foundation or basement. The lab measured the concentrations of various chemicals in these samples. DNR compares these measurements to the state Vapor Risk Screening Level (VRSL), which identifies the concentration of a chemical in soil gas that scientific research suggests can be a health risk if vapor enters a building. If soil gas measurements exceed the VRSL for a chemical of concern, action to reduce exposure is strongly recommended.

The VRSL is a higher number (higher chemical concentration) than the VAL because it is presumed that concrete building foundations and basement walls will prevent most soil gas from entering a building. Further, any soil gas that does enter a building through cracks, holes, sump pumps, drains, etc., will be diluted to some extent by the indoor air. So, people inside will not be breathing air that includes the full concentration of chemical vapors that exist in the ground.



DNR generally relies on the test results of the sub-slab soil gas samples when determining what, if any, action should be taken related to chemical vapors coming from nearby soil or groundwater contamination. Indoor air quality is highly variable, and it is difficult to make a definitive decision about vapor intrusion based on indoor air sampling alone.

### Follow-Up Actions

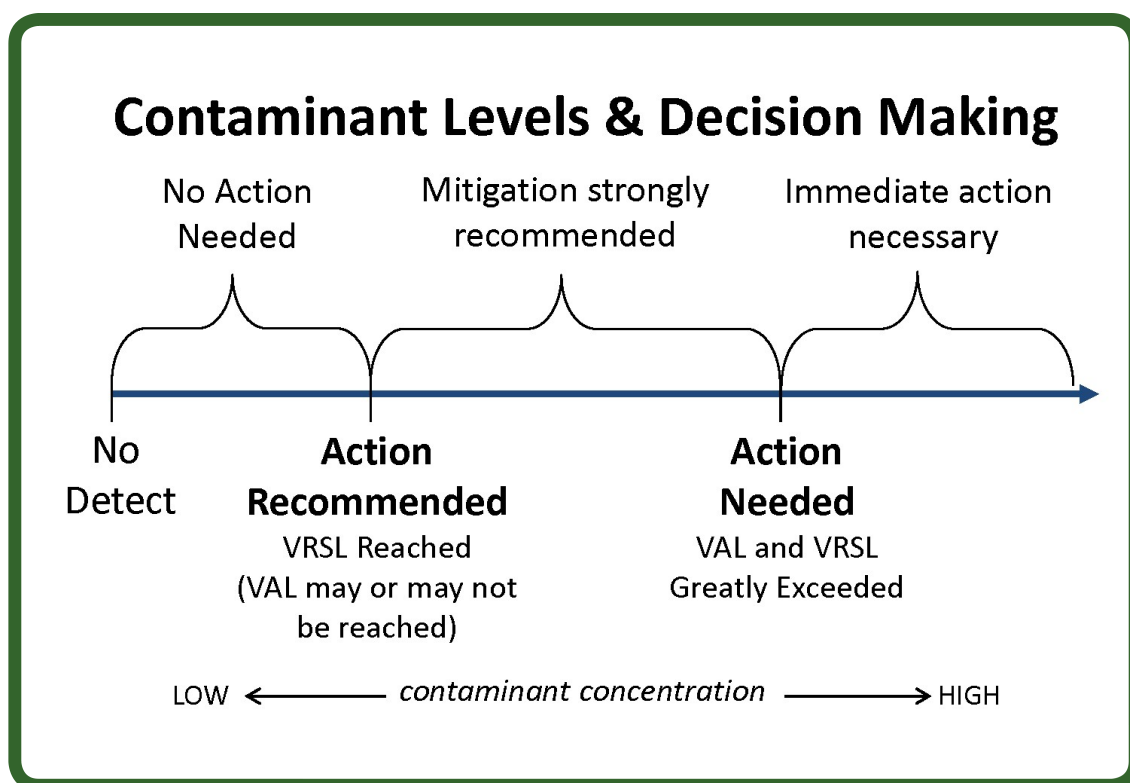
If your test results are less than a VAL for indoor air, or a VRSL for sub-slab soil gas, then the air in the house or building should not present a health concern. Follow-up sampling and testing may be necessary to confirm the results, but no other action is typically suggested.

When test results show soil gas chemical concentrations above a VRSL, both DNR and the Wisconsin Department of

Health Services recommend that owners take action to reduce potential exposure. This typically involves installing a vapor mitigation system that vents chemical vapors from beneath your home or building to the outdoors, similar to a radon mitigation system.

If indoor air concentrations exceed a VAL, but sub-slab concentrations are less than a VRSL, then the chemical vapors are most likely coming from indoor sources. Steps should be taken by the house or building owner to identify the products and practices causing the problem and implement appropriate remedies.

If soil gas mitigation is recommended, a representative of the party who is responsible for the soil or groundwater contamination will contact you to discuss your options.



**A Note about Measurement Units:** The lab report may include some unfamiliar technical language. The most important point to note is whether or not the test result for a specific chemical exceeds a VAL or VRSL, which are also sometimes referred to, generically, as “screening levels.”

The concentration of gaseous pollutants in air is typically described in two different ways: 1) as units of mass per volume, where  $\mu\text{g}/\text{m}^3$  represents micrograms of gaseous pollutant per cubic meter of ambient air; and 2) as parts per billion by volume (ppbv), where the volume of a gaseous pollutant is compared to a set volume of ambient air. These are the numbers that are compared to the VAL and VRSL.

For more information, visit [dnr.wi.gov/topic/Brownfields/Vapor.html](http://dnr.wi.gov/topic/Brownfields/Vapor.html)