

**From:** Brian Youngwirth <[byoungwirth@generalengineering.net](mailto:byoungwirth@generalengineering.net)>  
**Sent:** Thursday, September 2, 2021 10:54 AM  
**To:** Schultz, Josie M - DNR  
**Cc:** keegan.pries@gmail.com; Garritt R. Bader  
**Subject:** You Are My Sunshine Vapor Testing-Green Bay  
**Attachments:** Vapor 8.19.21.pdf; COC Vapor 8.19.21.pdf; Vapor.pdf; Vapor Testing Locations.pdf

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Good morning Josie,

Attached please find the laboratory results for the vapor testing at You Are My Sunshine Daycare, a table, and a test location map. The work was performed in accordance with the email Work Plan submitted to you on August 17, 2021, and your return comments also on August 17, 2021. The ambient air samples did not report detectable concentrations of CVOCs. The sub-slab samples reported low levels of tetrachloroethene or 1,1 dichloroethane at concentrations well below their residential or small commercial sub-slab or indoor air standards. Please let Garritt or I know if anything further will be requested regarding vapor testing at this Site. Based on the testing results, it is anticipated that the system will be activated and run as a preventive measure but not be required.

Thank you,

Brian L. Youngwirth  
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**TABLE 1**  
**SUMMARY OF SUB-SLAB/AMBIENT VAPOR ANALYTICAL RESULTS**  
**YOU ARE MY SUNSHINE DAYCARE**  
**GEC PROJECT NO. 2-0721-355**

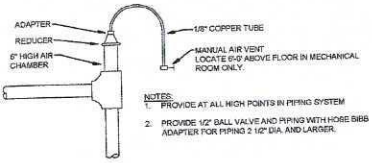
**TABLE 1 REGIONAL SCREENING LEVEL SUMMARY**

Sample No.	Residential Indoor Air VAL	Residential Sub-Slab Vapor VAL	Small Commercial Indoor Air VAL	Small Commercial Sub-Slab Vapor VRSL	Large Commercial Indoor Air VAL	Large Commercial Sub-Slab Vapor VRSL	SUB-SLAB KITCHEN BETWEEN ZONE 3 AND ZONE 4 - 0.5 HOUR (VP-1)	SUB-SLAB KITCHEN BETWEEN ZONE 1 AND ZONE 2 - 0.5 HOUR (VP-2)	AMBIENT ZONE 1 8 HOUR (AMB-1)	AMBIENT ZONE 4 8 HOUR (AMB-2)
							08/19/21	08/19/21	08/19/21	08/19/21
Sampling Date	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3			
<b>VOLATILE ORGANIC COMPOUNDS (VOC) (ug/m3)</b>										
1,1 Dichloroethane	18	600	77	2,600	77	7,700	2.24	<0.187	<0.187	<0.187
cis-1,2-Dichloroethene	NE	NE	NE	NE	NE	NE	<0.197	<0.197	<0.197	<0.197
trans-1,2-Dichloroethene	NE	NE	NE	NE	NE	NE	<0.231	<0.231	<0.231	<0.231
Tetrachloroethylene	42	1,400	180	6,000	180	18,000	3.5	0.61J	<0.278	<0.278
1,1,1-Trichloroethane	5,200	170,000	22,000	730,000	22,000	2,200,000	<0.249	<0.249	<0.249	<0.249
Trichloroethylene	2.1	70	8.8	290	8.8	880	<0.237	<0.237	<0.237	<0.237
Vinyl chloride	1.7	57	28	930	28	2,800	<0.148	<0.148	<0.148	<0.148

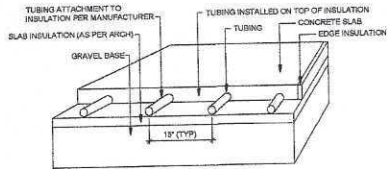
UG/M<sup>3</sup> - Micrograms per Cubic Meter of Air

Bold indicates analytical results exceeding relevant standard

NE= Not Established



**3** MANUAL AIR VENT DETAIL  
SCALE: NTS

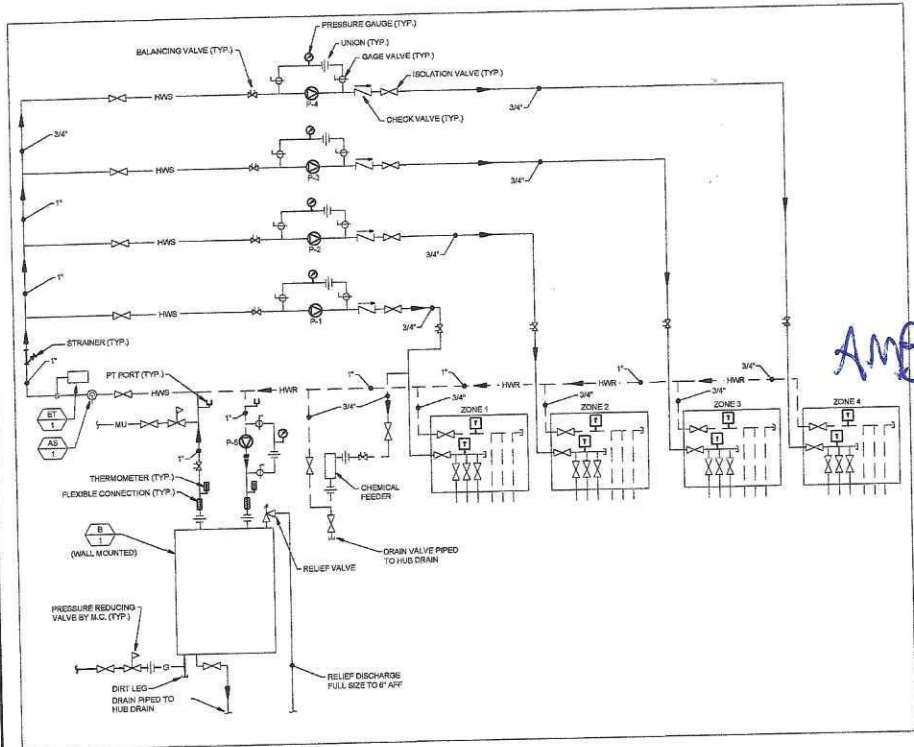


**4** RADIANT TUBING DETAIL  
SCALE: NTS

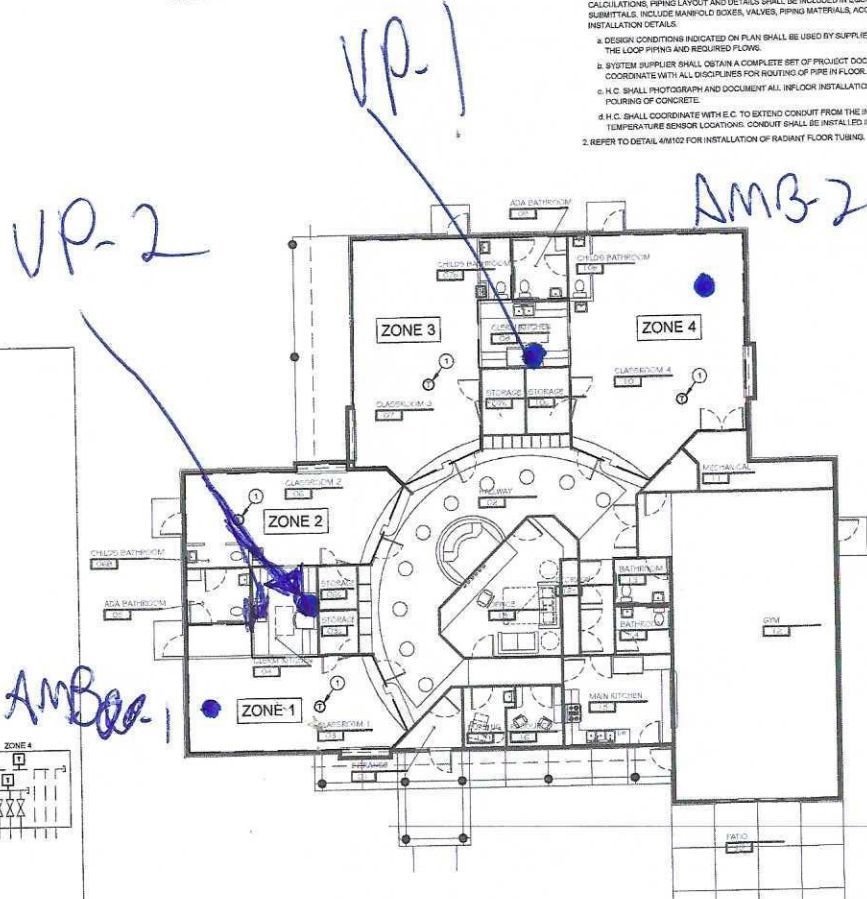
**KEYNOTES**  
 1. PROVIDE IN-FLOOR TEMPERATURE SENSORS FOR CONTROL OF PUMP. AVERAGE THE OUTPUTS TO MAINTAIN AN 83-85°F FLOOR TEMPERATURE.

**GENERAL NOTES**

1. HEATING CONTRACTOR SHALL ENGAGE THE SERVICES OF THE SELECTED INFLOOR SYSTEM SUPPLIER TO PROVIDE A FULLY ENGINEERED IN FLOOR HEATING SYSTEM. COMPLETE CALCULATIONS, PIPING LAYOUT AND DETAILS SHALL BE INCLUDED IN EQUIPMENT SUBMITTALS. INCLUDE MANFOLD BOXES, VALVES, PIPING MATERIALS, ACCESSORIES AND INSTALLATION DETAILS.
  2. DESIGN CONDITIONS INDICATED ON PLAN SHALL BE USED BY SUPPLIER FOR DESIGN OF THE LOOP PIPING AND REDUCED FLOWS.
  3. SYSTEM SUPPLIER SHALL OBTAIN A COMPLETE SET OF PRODUCT DOCUMENTS AND COORDINATE WITH ALL DISCIPLINES FOR ROUTING OF PIPE IN FLOOR.
  4. H.C. SHALL PHOTOGRAPH AND DOCUMENT ALL INFLOOR INSTALLATION PRIOR TO POURING OF CONCRETE.
  5. H.C. SHALL COORDINATE WITH E.C. TO EXTEND CONDUIT FROM THE INFLOOR TEMPERATURE SENSOR LOCATIONS. CONDUIT SHALL BE INSTALLED INSIDE WALLS.
2. REFER TO DETAIL 44102 FOR INSTALLATION OF RADIANT FLOOR TUBING.



**2** IN-FLOOR HEATING SYSTEM PIPING SCHEMATIC  
SCALE: NTS



**1** IN-FLOOR HEATING SYSTEM ZONING  
SCALE: 1/8" = 1'-0"

**DIMENSION IV**  
 Mechanical Engineering  
 1000 4th Street  
 Madison, WI 53703  
 Phone: 608-241-3344  
 Fax: 608-241-3345  
 www.dimensioniv.com

**YOU ARE MY SUNSHINE**  
 New Construction  
 Allouez, WI  
 1324 S. Webster Ave.

Sheet Index:  
 FLOOR PLAN HVAC  
 DUCTWORK AND  
 PIPING

**OTIE**  
 An Oneida ESC Group Company  
 5100 Evergreen Blvd., Suite 300, Madison, WI 53718  
 Ph. 608-241-6725 JOSH 2023024

M102

# 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 24-Aug-21

Project Name SUNSHINE/GREEN BAY  
Project #

Invoice # E39847

Lab Code 5039847A  
Sample ID AMB-1  
Sample Matrix Air  
Sample Date 8/19/2021

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
Air Samples										
1,1-Dichloroethane	< 0.187	ug/m3	0.187	0.596	1	TO-15		8/20/2021	CJR	1
cis-1,2-Dichloroethene	< 0.197	ug/m3	0.197	0.626	1	TO-15		8/20/2021	CJR	1
trans-1,2-Dichloroethene	< 0.231	ug/m3	0.231	0.734	1	TO-15		8/20/2021	CJR	1
Tetrachloroethene	< 0.278	ug/m3	0.278	0.884	1	TO-15		8/20/2021	CJR	1
1,1,1-Trichloroethane	< 0.249	ug/m3	0.249	0.793	1	TO-15		8/20/2021	CJR	1
Trichloroethene (TCE)	< 0.237	ug/m3	0.237	0.754	1	TO-15		8/20/2021	CJR	1
Vinyl Chloride	< 0.148	ug/m3	0.148	0.472	1	TO-15		8/20/2021	CJR	1

Lab Code 5039847B  
Sample ID AMB-2  
Sample Matrix Air  
Sample Date 8/19/2021

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
Air Samples										
1,1-Dichloroethane	< 0.187	ug/m3	0.187	0.596	1	TO-15		8/20/2021	CJR	1
cis-1,2-Dichloroethene	< 0.197	ug/m3	0.197	0.626	1	TO-15		8/20/2021	CJR	1
trans-1,2-Dichloroethene	< 0.231	ug/m3	0.231	0.734	1	TO-15		8/20/2021	CJR	1
Tetrachloroethene	< 0.278	ug/m3	0.278	0.884	1	TO-15		8/20/2021	CJR	1
1,1,1-Trichloroethane	< 0.249	ug/m3	0.249	0.793	1	TO-15		8/20/2021	CJR	1
Trichloroethene (TCE)	< 0.237	ug/m3	0.237	0.754	1	TO-15		8/20/2021	CJR	1
Vinyl Chloride	< 0.148	ug/m3	0.148	0.472	1	TO-15		8/20/2021	CJR	1

**Lab Code** 5039847C  
**Sample ID** VP-1  
**Sample Matrix** Air  
**Sample Date** 8/19/2021

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
Air Samples										
1,1-Dichloroethane	2.24	ug/m3	0.187	0.596	1	TO-15		8/20/2021	CJR	1
cis-1,2-Dichloroethene	< 0.197	ug/m3	0.197	0.626	1	TO-15		8/20/2021	CJR	1
trans-1,2-Dichloroethene	< 0.231	ug/m3	0.231	0.734	1	TO-15		8/20/2021	CJR	1
Tetrachloroethene	3.5	ug/m3	0.278	0.884	1	TO-15		8/20/2021	CJR	1
1,1,1-Trichloroethane	< 0.249	ug/m3	0.249	0.793	1	TO-15		8/20/2021	CJR	1
Trichloroethene (TCE)	< 0.237	ug/m3	0.237	0.754	1	TO-15		8/20/2021	CJR	1
Vinyl Chloride	< 0.148	ug/m3	0.148	0.472	1	TO-15		8/20/2021	CJR	1

**Lab Code** 5039847D  
**Sample ID** VP-2  
**Sample Matrix** Air  
**Sample Date** 8/19/2021

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
Air Samples										
1,1-Dichloroethane	< 0.187	ug/m3	0.187	0.596	1	TO-15		8/20/2021	CJR	1
cis-1,2-Dichloroethene	< 0.197	ug/m3	0.197	0.626	1	TO-15		8/20/2021	CJR	1
trans-1,2-Dichloroethene	< 0.231	ug/m3	0.231	0.734	1	TO-15		8/20/2021	CJR	1
Tetrachloroethene	0.61 "J"	ug/m3	0.278	0.884	1	TO-15		8/20/2021	CJR	1
1,1,1-Trichloroethane	< 0.249	ug/m3	0.249	0.793	1	TO-15		8/20/2021	CJR	1
Trichloroethene (TCE)	< 0.237	ug/m3	0.237	0.754	1	TO-15		8/20/2021	CJR	1
Vinyl Chloride	< 0.148	ug/m3	0.148	0.472	1	TO-15		8/20/2021	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**





## Environmental Lab, Inc.

www.synergy-lab.net  
 1990 Prospect Ct. • Appleton, WI 54914  
 920-830-2455 • mrsynergy@wi.twcbc.com

**Sample Handling Request**

Rush Analysis Date Required: \_\_\_\_\_  
 (Rushes accepted only with prior authorization)  
 Normal Turn Around

Lab I.D. # \_\_\_\_\_  
 QUOTE # : \_\_\_\_\_  
 Project #: \_\_\_\_\_  
 Sampler: (signature) *[Signature]*

Project (Name / Location): *Sunshine / Green Bay*

Reports To: *Brian Youngward* Invoice To: \_\_\_\_\_  
 Company: *GEC* Company: \_\_\_\_\_  
 Address: *916 Silver Lake Dr* Address: *C/O GEC*  
 City State Zip: *Portage WI 53901* City State Zip: \_\_\_\_\_  
 Phone: *608 697 8010* Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_ Email: \_\_\_\_\_

Analysis Requested											Other Analysis				
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	VOC AIR (TO - 15)	8-PCRA METALS	PID/ FID
														<i>XXXX CUOC</i>	

Lab I.D.	Sample I.D.	Collection Date	Time	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
<i>5039847A</i>	<i>AMB-1</i>	<i>8/19/21</i>	<i>8-4</i>	<i>N</i>	<i>1</i>	<i>Air</i>	<i>/</i>
<i>B</i>	<i>AMB-2</i>	<i>8/19/21</i>	<i>8-4</i>	<i>N</i>	<i>1</i>	<i>Air</i>	
<i>C</i>	<i>VP-1</i>	<i>↓</i>	<i>AM</i>	<i>↓</i>	<i>↓</i>	<i>↓</i>	
<i>D</i>	<i>VP-2</i>	<i>↓</i>	<i>AM</i>	<i>↓</i>	<i>↓</i>	<i>↓</i>	

Comments/Special Instructions (\*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge, etc.)

Sample Integrity - To be completed by receiving lab.  
 Method of Shipment: *[Signature]*  
 Temp. of Temp. Blank: \_\_\_\_\_ °C On Ice:   
 Cooler seal intact upon receipt:  Yes  No

Relinquished By: (sign) *[Signature]* Time \_\_\_\_\_ Date *8/19/21*  
 Received By: (sign) \_\_\_\_\_ Time \_\_\_\_\_ Date \_\_\_\_\_  
 Received in Laboratory By: *[Signature]* Time: *16:30* Date: *8/19/21*