

From: Welch, Tim <Tim.Welch@terracon.com>
Sent: Wednesday, February 22, 2023 11:35 AM
To: Schultz, Josie M - DNR
Cc: qefli neziri; Benjamin Brand
Subject: OHM-Green Bay: Ambient Results
Attachments: OHM_Ambient Table_02222023-pdf.pdf

**CAUTION: This email originated from outside the organization.
Do not click links or open attachments unless you recognize the sender and know the content is safe.**

Morning Josie,
Updated table with 2/2/2023 ambient air results is attached.
Regards,

Timothy P. Welch, P.G.
Senior Project Manager | Environmental



4900 South Pennsylvania Avenue, Suite 100 | Cudahy, Wisconsin 53110
D (414) 209.7634 | M (262) 617.6809
Tim.Welch@terracon.com | Terracon.com

Terracon provides environmental, facilities, geotechnical, and materials consulting engineering services delivered with responsiveness, resourcefulness, and reliability.

Private and confidential as detailed here (www.terracon.com/disclaimer). If you cannot access the hyperlink, please e-mail sender.

Table 4
Vapor Analytical Test Results Summary for Ambient Air CVOCs

Martinizing Dry Cleaning and Laundry Service
1233 South Military Avenue
Green Bay, Wisconsin
Terracon Project No. 58217038

Sample ID	Sample Type	Sampling Location	First Floor/ Basement	Sample Date	Sampling Method	Flow Regulator Calibrated Sampling Time	CVOCs (ug/m ³)					
							Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	
Jim's Music & Teaching Center (1219 Military)												
AA1	Ambient Air	Jim's Music Retail (Front/West)	First Floor	3/4/2020	6-Liter Summa Canister	8-Hour	338	1.4	<0.793	<0.793	<0.511	
				4/2/2020	6-Liter Summa Canister	30-minute	555 / 365	1.9	0.65 J	<0.52	<0.23	
				5/20/2020	6-Liter Summa Canister	8-Hour	940	1.4	<0.19	<0.27	<0.15	
AA2	Ambient Air	Jim's Music Retail (Back/East)	First Floor	3/4/2020	6-Liter Summa Canister	8-hour	411	1.93	<0.793	<0.793	<0.511	
AA4	Ambient Air	Jim's Music Retail	North Basement	3/4/2020	6-Liter Summa Canister	8-Hour	382	2.18	<0.793	<0.793	<0.511	
				4/2/2020	6-Liter Summa Canister	30-minute	1,230	3.6	1.40 J	<0.50	<0.22	
				5/20/2020	6-Liter Summa Canister	8-Hour	861	0.77	<0.17	<0.52	<0.14	
AMB-1	Ambient Air	Jim's Music Retail (Basement)	Basement	8/25/2021	6-Liter Summa Canister	8-hour	685	2.4	<0.30	1.9	<0.13	
AMB-Jims Teaching Center (1219)	Ambient Air	Jim's Music Retail (Front/West)	First Floor	12/30/2022	6-Liter Summa Canister	8-hour	1,350	2.2	<0.34	<0.67	<0.15	
	Ambient Air	Jim's Music Retail (Front/West)	First Floor	2/2/2023	6-Liter Summa Canister	8-hour	751	2.4	<0.31	<0.60	<0.14	
AMB-Basement (1219)	Ambient Air	Jim's Music Retail (Basement)	Basement	12/30/2022	6-Liter Summa Canister	8-hour	931	3.5	<0.34	<0.67	<0.15	
	Ambient Air	Jim's Music Retail (Basement)	Basement	2/2/2023	6-Liter Summa Canister	8-hour	404	4.5	<0.30	<0.58	<0.13	
Jim's Music Lesson (1231 Military)												
AA3	Ambient Air	Jim's Music Lesson	First Floor	3/4/2020	6-Liter Summa Canister	8-Hour	827/983	6.23	2.0	<0.793	<0.511	
				4/2/2020	6-Liter Summa Canister	30-minute	2,510	4.3	1.7	<0.50	<0.22	
				5/20/2020	6-Liter Summa Canister	8-Hour	4,390	1.1	<0.17	<0.25	<0.14	
AA5	Ambient Air	Jim's Music Lesson	South Basement	3/4/2020	6-Liter Summa Canister	8-hour	807 / 909	15.2	4.84	<0.793	<0.511	
AMB-2	Ambient Air	Jim's Music Lesson	Basement	8/25/2021	6-Liter Summa Canister	8-hour	1,990	4.6	<0.25	0.91J	<0.13	
AMB-Jims Music Lesson (1231)	Ambient Air	Jim's Music Lesson	First Floor	12/30/2022	6-Liter Summa Canister	8-hour	2,040	3.5	<0.34	<0.67	<0.15	
	Ambient Air	Jim's Music Lesson	First Floor	2/2/2023	6-Liter Summa Canister	8-hour	1,120	3.5	<0.31	<0.60	<0.14	
Edward Jones Financial/Wakanda African Shop (1239 Military)												
AA6	Ambient Air	Edward Jones Financial	First Floor	3/4/2020	6-Liter Summa Canister	8-Hour	292	<1.07	<0.793	<0.793	<0.511	
				5/20/2020	6-Liter Summa Canister	8-Hour	422	<0.36	<0.19	<0.27	<0.15	
AMB-Wakanda (1239)	Ambient Air	Wakanda African Shop	First Floor	12/30/2022	6-Liter Summa Canister	8-hour	216	<0.47J	<0.33	<0.64	<0.15	
	Ambient Air	Wakanda African Shop	First Floor	2/2/2023	6-Liter Summa Canister	8-hour	28.2	<0.34	<0.31	<0.60	<0.14	
Former William's Taekwondo/East Spa (1235 Military)												
AA8	Ambient Air	Former William's Taekwondo	First Floor	3/4/2020	6-Liter Summa Canister	8-Hour	1,420 / 2,270	<1.07	<0.793	<0.793	<0.511	
				4/2/2020	6-Liter Summa Canister	30-minute	805	<0.43	<0.37	<0.48	<0.21	
				5/20/2020	6-Liter Summa Canister	8-Hour	408	<0.53	<0.28	<0.63	<0.23	
AMB-Spa (1235)	Ambient Air	East Spa	First Floor	12/30/2022	6-Liter Summa Canister	8-hour	959	2.0	<0.32	<0.62	<0.14	
	Ambient Air	East Spa	First Floor	2/2/2023	6-Liter Summa Canister	8-hour	284	0.72J	<0.31	<0.60	<0.14	
Outdoors Near Vent												
AA7	Ambient Air	Outdoor Near Vent	Outdoors	3/4/2020	6-Liter Summa Canister	8-hour	23	<1.07	<0.793	<0.793	<0.511	
Residential Indoor Air VAL¹							ug/m³	42	2.1	42	42	1.7
Residential Sub-slab Vapor/Soil Gas VRSL²							ug/m³	1,400	70	1,400	1,400	57
Small Commercial Building Indoor Air VAL¹							ug/m³	180	8.8	180	180	28
Small Commercial Building Sub-slab Vapor/Soil Gas VRSL²							ug/m³	5,800	290	5,800	5,800	930
Large Commercial/Industrial Building Indoor Air VAL¹							ug/m³	180	8.8	180	180	28
Large Commercial/Industrial Building Sub-slab Vapor/Soil Gas VRSL³							ug/m³	18,000	880	18,000	18,000	2,800
Notes:												
Results expressed in micrograms per cubic meter (ug/m ³)												
VAL = Vapor Action Limit												
VRSL = Vapor Risk Screening Level												
CVOCs = Chlorinated Volatile Organic Compounds												
J= Estimated concentration at or above the limit of detection (LOD) and below the Limit of Quantitation (LOQ)												
* < " Indicates not detected at or above the LOD												
¹ VAL given as the lesser of 1:100,000 lifetime cancer risk or noncancer hazard index of 1 value in generic U.S. EPA Tables at the web address: http://www.epa.gov/re3hwm/risk/human/rb-concentratio_table/Generic_Tables/index.htm and modified for Wisconsin Vapor Intrusion Guidance PUB-RR-800 lifetime cancer risk (1:100,000)(Nov 2022)												
² VRSL is the VAL adjusted for sub-slab vapor to indoor air by applying an attenuation factor of 0.03 for comparison with the analytical results.												
³ VRSL is the VAL adjusted for sub-slab vapor to indoor air by applying an attenuation factor of 0.01 for comparison with analytical results.												
Sampled by GEI in March 2020 and May 2020 performed on behalf of Innovative Properties Group												
Sampled by SCS Engineers in April 2020 performed on behalf of EPA												
Previous consultants focused their vapor results tables on CVOCs. Other constituents were detected above their LODs, however, they were all detected below a VAL or VRSL.												
Bold = Exceedance of Residential Indoor Air VAL												
<i>Italicized</i> = Exceedance of Small-Commercial Building Indoor Air VAL												
<u>Underlined</u> = Exceedance of Large Commercial/Industrial Building Indoor Air VAL												
Blue Shaded values indicate exceedance of applicable residential VRSLs (sub-slab)												
Brown Shaded values indicate exceedance of applicable small commercial VRSLs (sub-slab)												
Red Shaded values indicate exceedance of applicable Large commercial building VRSLs (sub-slab)												