Volkert, David G - DNR

From:

Welch, Tim <Tim.Welch@terracon.com>

Sent:

Monday, October 10, 2016 9:22 AM

To:

Volkert, David G - DNR

Cc:

Williams, Michelle L. MLW (6231); Margie Kidder

Subject:

Clare Central Supplementary Investigation: Ambient Air Sampling

Attachments:

CVOC Air 10.6.16.pdf

Morning Dave,

Attached for your review/records is a historical summary of CVOC ambient/sub-slab analytical at Clare Central, including the September 2016 sampling.

Positive is there are no VAL exceedances.

Thank you,

Tim

Timothy P. Welch, P.G.
Department Manager I Environmental Services

Terracon

9856 South 57th Street I Franklin, Wisconsin 53132 D (414) 209.7634 I F (414) 423.0566 I M (262) 617.6809 <u>tpwelch@terracon.com</u>I terracon.com

From: Volkert, David G - DNR [mailto:David.Volkert@wisconsin.gov]

Sent: Thursday, September 22, 2016 3:39 PM **To:** Welch, Tim <<u>Tim.Welch@terracon.com</u>>

Subject: RE: Data Transmittal: Clare Central Supplementary Investigation

Please send a hard copy Tim.

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Dave Volkert

Phone: (262) 574-2166
David.Volkert@wisconsin.gov

From: Welch, Tim [mailto:Tim.Welch@terracon.com]

Sent: Thursday, September 22, 2016 3:27 PM

To: Volkert, David G - DNR

Cc: Margie Kidder; Williams, Michelle L. MLW (6231); Schroyer, Blaine R. **Subject:** Data Transmittal: Clare Central Supplementary Investigation

Hi Dave,

Attached is the supplementary site investigation data transmittal for review/comment.

Let me know if you have questions, and/or you'd like a hard copy.

Thanks,

Tim

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Table 2 Air Analytical Test Results Summary CVOCs Clare Central 1003 and 1033 West Atkinson Avenue

Milwaukee, Wisconsin

	1	1	Terra		Wisconsin No. 58107058A				
Sample ID	Sample Type	Sample Depth (inches)	Sample Date	Sampling Method -Slab Samp	cis-1,2-Dichloroethene	frans-1,2-	Tetrachloroethene	Trichloroethene	Vinyl Chloride
SS-1 (1003 West Atkinson)	Sub-slab	6	2/11/2011	1-Liter Summa Canister with 24-hour grab sample	47.7	2.8	3.1	<u>5,130</u>	<0.86
Ambient 1003	Ambient air	surface	3/17/2011	1-Liter Summa Canister with 24-hour grab sample	3.6	<3.2	2.3	80	<2.0
Subslab 1003	Sub-slab	6	3/17/2011	1-Liter Summa Canister with 24-hour grab sample	56	<3.6	<4.9	2,500	<9,3
SS-2 (1033 West Atkinson)	Sub-slab	6	2/11/2011	1-Liter Summa Canister with 24-hour grab sample	<29.2	<29.2	<50.4	<u>89,8</u>	<18.7
Ambient 1033	Ambient air	surface	3/17/2011	1-Liter Summa Canister with 24-hour grab sample	<0.95	<0.79	<1.1	3.1	2.0
Subsiab 1033	Sub-slab	6	3/17/2011	1-Liter Summa Canister with 24-hour grab sample	<18	<15	<21	44	<14
			Amb	ient Air Sar 1-Liter	nples: July	2012			
Ambient 1003 Atkinson	Ambient air	surface	1/30/2012	Summa Canister with 24-hour grab sample 1-Liter	0.40	<0.20	0.17	5.5	<0.20
Ambient 1033 Atkinson	Amblent air	surface	1/30/2012 Ambient	Summa Canister with 24-hour grab sample	<0.20	<0.20	<0.20	<0.20	<0.20
			Ambien	Air Sample	ss. warch-J	ury 2013			
1003 Ambient	Ambient air	surface	3/28/2013	Summa Canister with 24-hour grab sample 1-Liter	37.9	<8.4	<7.2	841	<2.7
1033 Ambient	Ambient air	surface	3/28/2013	Summa Canister with 24-hour grab sample 1-Liter	<1.6	<1.6	4.7	<1.1	<0.52
Unit #1 Kitchen Counter -1st Floor	Ambient air	surface	7/17/2013	Summa Canister with 24-hour grab sample 1-Liter	<2.35	<2.35	<2.35	<2.35	<2.35
IA2 (1003) Sump Closet - 1st Floor	Ambient air	surface	7/17/2013	Summa Canister with 24-hour grab sample 1-Liter	<2.35	<2.35	<2.35	4.86	<2.35
IA3 (1003) Mechanical Closet - 2nd floor	Ambient air	surface	7/17/2013	Summa Canister with 24-hour grab sample 1-Liter	<2.35	<2,35	<2.35	<2.35	<2.35
IA4 (1003) Storage Room - Second Floor	Ambient air	surface	7/17/2013	Summa Canister with 24-hour grab sample 1-Liter	<2.35	<2.35	<2.35	<2.35	<2.35
Unit #2 Kitchen Counter - 1st Floor IA6 (1033)	Ambient air	surface	7/17/2013	Summa Canister with 24-hour grab sample 1-Liter	<2.35	<2.35	<2.35	<2.35	<2.35
Unit #5 Kitchen Counter - 2nd Floor	Ambient air	surface	7/17/2013	Summa Canister with 24-hour grab sample 1-Liter	<2.35	<2.35	<2.35	<2.35	<2.35
OA (1033) Unit #5 Porch - 2nd Floor	Ambient air	surface	7/17/2013 Ambient	Summa Canister with 24-hour grab sample Air Sample	 es: Septemi	 per 2016		<2,35	
Sump Closet - 1st floor (1003)	Ambient air	surface	9/15/2016	1-Liter Summa Canister with 24-hour grab sample	<0.37	<0.57	<0.41	<0.41	<0.29
Unit #1 Kitchen - 1st floor (1003)	Ambient air	surface	9/15/2016	1-Liter Summa Canister with 24-hour grab sample	<0.38	<0.60	<0.43	<0.43	<0.30
Mechanical Closet - 2nd Floor (1003)	Ambient air	surface	9/15/2016	1-Liter Summa Canister with 24-hour grab sample	<0.40	<0.62	<0.45	2.0	<0.31
Storage Room - 2nd Floor (1003)	Ambient air	surface	9/15/2016	1-Liter Summa Canister with 24-hour grab sample	<0.40	<0.62	<0.45	<0.44	<0.31
Unit #2 Kitchen - 1st Floor (1033)	Ambient air	surface	9/15/2016	1-Liter Summa Canister with 24-hour grab sample	<0.40	<0.62	<0.45	<0.44	<0.31
Unit #5 - 2nd Floor (1033)	Ambient air	surface	9/15/2016	1-Liter Summa Canister with 24-hour grab sample 1-Liter	<0.40	<0.62	<0.45	<0.44	<0.31
Unit #5 - Outdoor Air (1033)	Ambient air	surface	9/15/2016	Summa Canister with 24-hour grab sample	<0.40	<0.62	<0.45	<0.44	<0.31
Sub-Slab	Vapor Risk So	creening Levels		μg/m³			1400	70.0	<u>57</u>
Vapor Action Level ² μg/m ³							42	2.1	1.7

Notes:
All concentrations are in micrograms per cubic meter (ug/m³)
CVOCs = Chlorinated Volatile Organic Compounds
" < " Indicates not detected above listed method detection limit (MDL)
" -- " Indicates standard not established, not calculated or not analyzed

¹ Screening value is the Vapor Action Level adjusted for sub-slab residential indoor air
by applying an attenuation factor of 0.03 (dilution factor of 33) for comparison with the analytical results.

² Vapor Action Level for residential indoor air given as the lesser of 1:100,000 lifetime cancer risk or noncancer at hazard index value of 1 in generic U.S EPA Tables at the web address:
https://www.epa.gov/risk/regional-screening-levels-rsis-generic-tables-may-2016
and modified for Wisconsin Vapor Intrusion Guidance PUB-RR-800 lifetime cancer risk (1:100,000)
BOLD TYPE = Values indicate EPA residential indoor air Vapor Action Level (VAL) exceedances
Underlined/Italic Type = Values indicate EPA residential sub-slab Vapor Risk Screening Level (VRSL) exceedances