

Table 20  
Soil Gas Analytical Results Summary  
Madison-Kipp Corporation  
Madison, Wisconsin

SAMPLE LOCATION	DEEP SOIL GAS		VP-102	VP-102	VP-102	VP-102	VP-102	VP-102	VP-102	VP-102 DUP
	NON-RES. <sup>1,2</sup>	RES. <sup>1,2</sup>	11/25/2011	10/24/2012	1/29/2014	7/23/2014	7/22/2015	7/20/2016	07/25/2017	07/25/2017
<b>VOC</b>										
cis-1,2-Dichloroethene	NE	NE	1,940 *IS	45	0.56	< 0.16	0.24	< 0.46	< 0.39	< 0.39
trans-1,2-Dichloroethene	NE	NE	< 400 *IS*D	< 3.4	< 0.14	< 0.16	< 0.17	< 0.28	< 0.77	< 0.76
1,2-Dichloroethene	NE	NE	1,940	45	0.56	< 0.16	NA	NA	NA	NA
Tetrachloroethene	27,000	620	4,620 *IS	1,200	2	0.17	< 0.17	400	820	810
Trichloroethene	1,600	39	1,770 *IS	240	1.2	< 0.16	0.17	56	75	74
Vinyl chloride <sup>3</sup>	11,000	65	< 400 *IS*D	< 3.4	< 0.14	< 0.16	< 0.017	< 0.42	< 0.30	< 0.30

**Footnotes:**

1 = VALs in accordance with *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin*, <http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf>

2 = Non-Res. Deep Soil Gas VAL used 0.001 AF; Res. Deep Soil Gas VAL used 0.01 AF

3 = Vinyl chloride was analyzed using the modified EPA Method TO-15 GC/MS SIM for the July 22, 2015 and July 24, 2015 monitoring event. For monitoring points where no detection was present, the concentration is noted less than the reporting limit.

Updated By: P. Popp 9/13/2017

Checked By: A. Stehn 9/14/2017

**Notes:**

All concentrations presented in this table are reported in parts per billion by volume (ppbv) unless otherwise noted.

Res./Non-Res. VAL provided for comparison purposes.

VP-3 through VP-6 compared to Non-Res. Deep Soil Gas VAL due to probe location (large commercial/industrial building, >5 feet below nearest building foundation).

100	= exceeds Wisconsin Res. Deep Soil Gas VAL with 0.01 AF
100	= exceeds Wisconsin Non-Res. Deep Soil Gas VAL with 0.001 AF

<= constituent not detected above noted laboratory method detection limit

> = greater than

-- = not designated

\*D = limit of detection not achievable due to dilution

\*IS = the internal standard quality control limit is exceeded

AF = Attenuation Factor

NE = Criteria Not Established

NA= Not Analyzed

DUP = Duplicate sample collected

Res. = Residential

VAL = Vapor Action Level

VOCs = Volatile Organic Compounds