

Friess Environmental Consulting, Inc.
Guide to Abbreviations
in Laboratory Data Tables

< = Less than the specified detection limit.

DO = Dissolved Oxygen

ES = Enforcement Standard

DRO = Diesel range organics

GRO = Gasoline range organics

iu = instrument units

MTBE = Methyl-tert butyl ether

mV = Millivolts

NA = Not analyzed for indicated parameter

NM = Not measured for indicated parameter

NR = No recovery or not reported at this interval.

NR 140 ES = Wisconsin Administrative Code NR 140 Groundwater Quality
Enforcement Standard

NR 140 PAL = Wisconsin Administrative Code NR 140 Groundwater Quality
Preventive Action Limit

NR 720 Groundwater RCL = Wisconsin Administrative Code NR 720 Residual Contaminant Level for the protection of groundwater
via the U.S. EPA's Regional Screening Level Web-Calculator per DNR draft document RR-890

NR 720 Non-Industrial DC RCL = Wisconsin Administrative Code NR 720 Non-Industrial Residual Contaminant Level for direct contact
via the U.S. EPA's Regional Screening Level Web-Calculator per DNR draft document RR-890

Note: NR 720 values are calculated utilizing the U.S. EPA's Regional Screening Level Web-Calculator per DNR draft document RR-890.

NS = No NR 140 ES/PAL or NR 720 RCL standard has been established.

ORP = Oxidation-reduction potential

PAL = Preventive Action Limit

PID = Photoionization detector

ppb = parts per billion

ppm = parts per million

RCL = Residual contaminant level as established in WAC Chapter NR 720

S/US = Saturated/Unsaturated soil sample interval

TMBs = Trimethylbenzenes (combined 1,2,4- and 1,3,5-trimethylbenzene)

umhos = Micromhos

Table A.4.
Vapor Analytical Results
VPI Property - 3123 S. 9th Street
Sheboygan, Wisconsin

Sample Location	Sampling Date	Acetone (ug/m ³)	Benzene (ug/m ³)	Carbon Disulfide (ug/m ³)	Chloro-methane (ug/m ³)	Cyclo-hexane (ug/m ³)	DEHP (ug/m ³)	Dichloro-difluoro-methane (ug/m ³)	cis-1,2-DCE (ug/m ³)	Ethanol (ug/m ³)	Ethyl-benzene (ug/m ³)	Heptane (ug/m ³)	Hexane (ug/m ³)	2-Hexanone (ug/m ³)
VP-1	1/8/20	36.3	1.60	2.80	1.10	1.30 J	NA	2.60	0.99 J	14.4	<0.56	<0.70	1.80	<1.40
	9/11/20	140	1.69	3.80	<0.831	<0.212	<45.0	3.11	<0.197	34.0	1.69	2.04	4.20	3.20
VP-2	1/8/20	1,760	6.00	7.80	<0.27	21.9	NA	0.98 J	<0.38	47.3	1.10 J	15.8	44.8	19.1
	9/11/20	2,090	80.0	43.0	3.30	37.0	<45.0	2.92	<0.197	250	27.9	141	108	164
<i>Residential VRSL</i>		<i>10,666,667</i>	<i>120</i>	<i>243,333</i>	<i>3,130</i>	<i>2,100,000</i>	<i>390</i>	<i>3,300</i>	<i>600</i>	<i>NS</i>	<i>370</i>	<i>140,000</i>	<i>243,333</i>	<i>1,043</i>
<i>Commercial VRSL</i>		<i>46,666,667</i>	<i>530</i>	<i>1,033,333</i>	<i>13,133</i>	<i>8,666,667</i>	<i>1,730</i>	<i>15,000</i>	<i>2,600</i>	<i>NS</i>	<i>1,600</i>	<i>600,000</i>	<i>1,033,333</i>	<i>4,367</i>
<i>Industrial VRSL</i>		<i>140,000,000</i>	<i>1,600</i>	<i>3,100,000</i>	<i>39,400</i>	<i>26,000,000</i>	<i>5,110</i>	<i>44,000</i>	<i>7,700</i>	<i>NS</i>	<i>4,900</i>	<i>1,800,000</i>	<i>3,100,000</i>	<i>13,100</i>

Sample Location	Sampling Date	MEK (ug/m ³)	MIBK (ug/m ³)	Methylene Chloride (ug/m ³)	Naphthalene (ug/m ³)	2-Propanol (ug/m ³)	PCE (ug/m ³)	Tetrahydro-furan (ug/m ³)	Toluene (ug/m ³)	TCE (ug/m ³)	Trichloro-fluoro-methane (ug/m ³)	1,2,4-TMB (ug/m ³)	1,3,5-TMB (ug/m ³)	Xylenes (ug/m ³)
VP-1	1/8/20	2.90 J	<0.95	5.10 J	<2.40	10.3	0.75 J	1.90	1.90	3.60	1.30 J	<0.83	<0.73	<1.93
	9/11/20	5.30	2.01	18.2	1.52 J	20.0	1.09	<0.131	81.0	<0.237	1.85	2.94	0.69 J	6.12
VP-2	1/8/20	234	152	3.60 J	6.80	138	<0.55	<0.46	9.90	2.00	<0.64	2.90	0.92 J	10.6
	9/11/20	610	450	<15.0	0.99 J	360	<0.278	<0.131	143	<0.237	1.40	9.70	3.30	57.6
<i>Residential VRSL</i>		<i>1,733,333</i>	<i>1,033,333</i>	<i>21,000</i>	<i>28</i>	<i>6,967</i>	<i>1,400</i>	<i>69,667</i>	<i>170,000</i>	<i>70</i>	<i>NS</i>	<i>2,100</i>	<i>2,100</i>	<i>3,300</i>
<i>Commercial VRSL</i>		<i>7,333,333</i>	<i>4,333,333</i>	<i>87,000</i>	<i>120</i>	<i>29,200</i>	<i>6,000</i>	<i>292,000</i>	<i>730,000</i>	<i>290</i>	<i>NS</i>	<i>8,700</i>	<i>8,700</i>	<i>15,000</i>
<i>Industrial VRSL</i>		<i>22,000,000</i>	<i>13,000,000</i>	<i>260,000</i>	<i>360</i>	<i>87,600</i>	<i>18,000</i>	<i>876,000</i>	<i>2,200,000</i>	<i>880</i>	<i>NS</i>	<i>26,000</i>	<i>26,000</i>	<i>44,000</i>

Note: Only the detected compounds are presented.

Note: "J" indicates slight detection above the level of detection but less than the level of quantification.

Note: Concentrations in **blue italics** exceed their respective residential sub-slab vapor risk screening levels (VRSLs).

Note: Concentrations in **red** exceed their respective commercial sub-slab VRSLs.

Note: Concentrations in **red bold** exceed their respective industrial sub-slab VRSLs.

Note: NA means not analyzed during that sampling period