

**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.3.**  
**Residual Soil Contamination Table**  
**VPI Property - 3123 South 9th Street**  
**Sheboygan, Wisconsin**

Sample Location	Sampling Date	Fill or Native	PID (iu)	S/US	VOCS											SVOCs				
					Benzene (ppb)	cis-1,2-Dichloro-ethene (ppb)	Ethyl-benzene (ppb)	Methyl tert-butyl ether (ppb)	Naphthalene (ppb)	Tetra-chloro-ethene (ppb)	Toluene (ppb)	1,1,1-Trichloro-ethane (ppb)	Trichloro-ethene (ppb)	Combined Trimethyl-benzenes (ppb)	Total Xylenes (ppb)	Bis-2-ethylhexyl phthalate (ppb)	Butyl Benzyl Phthalate (ppb)	Dinocetyl Phthalate (ppb)	Phenol (ppb)	Diisononyl Phthalate (ppb)
GP-9: 6-8 FT	1995	Native	NR	S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<u>[360,000]</u>	NR	NR	NR	NR
GP-9: 8-10 FT	1995	Native	NR	S	<61.0	<61.0	<61.0	NA	<300	<120	<61.0	<61.0	<61.0	<122	<180	<u>11,000</u>	NR	NR	NR	NR
GP-18: 4-6 FT	1995	Native	NR	S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<u>16,000</u>	NR	NR	NR	NR
P-1: 3 FT	12/10/2019	Fill	<1.0	US	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<u>[16,400,000]</u>	NA	NA	NA	NA
P-9: 2 FT	1/8/2020	Fill	<1.0	US	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<u>[843,000]</u>	47.0	13,900	NA	26,000
P-9: 4 FT	1/8/2020	Fill	<1.0	US	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<u>7,750</u>	NA	NA	NA	NA
P-10: 2 FT	1/8/2020	Fill	<1.0	US	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<u>[1,680,000]</u>	3,450	<50	NA	41,200,000
P-10: 4 FT	1/8/2020	Native	<1.0	US	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<u>[22,400,000]</u>	NA	NA	NA	NA
P-12: 2 FT	1/8/2020	Fill	<1.0	US	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<u>[532,000]</u>	153	<50	NA	256,000
P-12: 6 FT	1/8/2020	Native	<1.0	S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<u>6,020</u>	NA	NA	NA	NA
P-25: 1 FT	10/27/2020	Fill	<1.0	US	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<u>[167,000]</u>	<26.5	<24.4	25.9 J	NA
P-27: 2-4 FT	5/6/2021	Fill	<1.0	US	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<u>[196,000]</u>	<35.0	<45.0	<16.0	NA
NR 720 Groundwater RCL					5.1	41.2	1,570	27	658	4.5	1,107	140	3.6	1,379	3,960	2,880	NS	NS	2,000	NS
NR 720 Residential DC RCL					1,600	156,000	8,020	63,800	5,520	33,000	818,000	640,000	1,300	219K/182K	260,000	38,800	286,000	NS	19,000	NS
NR 720 Industrial DC RCL					7,070	2,340,000	35,400	282,000	24,100	145,000	818,000	640,000	8,410	219K/182K	260,000	164,000	1,210,000	NS	100,000	NS

Note: Only the detected compounds are presented.

Note: NR 720 values are calculated utilizing the U.S. EPA's Regional Screening Level Web-Calculator per DNR draft document RR-890 (updated December 2017) .

Note: Concentrations that exceed their respective RCLs for the protection of groundwater are in blue italics .

Note: Concentrations that exceed their respective non-industrial RCLs for direct contact are underlined.

Note: Concentrations that exceed their respective industrial RCLs for direct contact are in [brackets].

Note "J" indicates estimated concentration above the level of detection but less than the level of quantification.