

**Table 2**  
**Soil Chemistry Data - Soil Borings**  
**WDNR PCE Contamination Investigation - Three Lakes, WI (BRRTS #02-44-000267)**

July 2020  
Page 1 of 2

SAMPLE I.D.	MW1P-4	MW1P-6	MW2-5	MW2-7	MW3-2	MW3-4	MW4-5	MW4-8	MW4-12	MW5-4	MW5-12	MW6-5	MW6-10	MW6-15	MW7P-4	
SAMPLE DEPTH (Ft.)	6-8'	10-12'	8-10'	12-14'	2-4'	6-8'	8-10'	14-16'	22-24'	6-8'	22-24'	8-10'	18-20'	28-30'	6-8'	
SAMPLE COLLECTION DATE	6/16/2020	6/16/2020	6/16/2020	6/16/2020	6/16/2020	6/16/2020	6/17/2020	6/17/2020	6/17/2020	6/17/2020	6/17/2020	6/17/2020	6/17/2020	6/17/2020	6/18/2020	
PID Reading (instrument units - i.u.)	0	0	0	0	0	0	0	Too Wet	121*	0	0	0	0	0	0	
ANALYTICAL PARAMETERS	WDNR NR 720 RCLs															
VOCs (mg/kg)	mg/kg															
Benzene	0.0051	<0.014	<0.013	<0.012	<0.013	<0.012	<0.011	<0.012	<0.011	<0.0091	<0.012	<0.011	<0.011	<0.011	<0.012	<0.012
Ethylbenzene	1.57	<0.014	<0.013	<0.012	<0.013	<0.012	<0.011	<0.012	<0.011	<0.0091	<0.012	<0.011	<0.011	<0.011	<0.012	<0.012
Methyl-tert-butyl ether	0.027	<0.020	<0.020	<0.018	<0.019	<0.018	<0.016	<0.017	<0.016	<0.031	<0.017	<0.016	<0.016	<0.016	<0.018	<0.017
Toluene	1.1072	<0.020	<0.020	<0.018	<0.019	<0.018	<0.016	<0.017	<0.016	<0.013	<0.017	<0.016	<0.016	<0.016	<0.018	<0.017
1,2,4-Trimethylbenzene		<0.014	<0.013	<0.012	<0.013	<0.012	<0.011	<0.012	<0.011	<0.0091	<0.012	<0.011	<0.011	<0.011	<0.012	<0.012
1,3,5-Trimethylbenzene	1.3787	<0.016	<0.016	<0.014	<0.016	<0.015	<0.013	<0.014	<0.013	<0.0111	<0.014	<0.013	<0.013	<0.013	<0.014	<0.014
o -Xylenes		<0.0087	<0.0085	<0.0078	<0.0084	<0.0079	<0.0070	<0.0074	<0.0076	<0.0058	<0.0075	<0.0070	<0.0070	<0.0068	<0.0078	<0.0075
m & p - xylenes	3.96	<0.031	<0.030	<0.028	<0.030	<0.028	<0.025	<0.026	<0.025	<0.021	<0.027	<0.025	<0.025	<0.024	<0.028	<0.027
1,2-Dibromoethane	0.0000282	<0.014	<0.013	<0.012	<0.013	<0.012	<0.011	<0.012	<0.011	<0.0091	<0.012	<0.011	<0.011	<0.011	<0.012	<0.012
1,2-Dichloroethane	0.0028	<0.027	<0.027	<0.024	<0.027	<0.025	<0.022	<0.023	<0.022	<0.018	<0.024	<0.022	<0.022	<0.021	<0.024	<0.024
Tetrachloroethene	0.0045	<0.014	<0.013	<0.012	<0.013	<0.012	<0.011	<0.012	<0.011	<0.0091	<0.012	<0.011	<0.011	<0.011	<0.012	<0.012
Trichloroethene	0.0036	<0.024	<0.023	<0.021	<0.023	<0.021	<0.019	<0.020	<0.019	<0.016	<0.020	<0.019	<0.019	<0.018	<0.021	<0.020

VOCs = Volatile Organic Compounds EPA Method 8260 (No Other Compounds Analyzed Were Detected Above Lab Detection Limits - See Lab Report for Complete Results)

Results presented as milligrams per kilogram (mg/Kg), which is equivalent to parts per million (ppm)

Photoionization Detector (PID) calibrated to 100 parts per million isobutylene

1,2-Dibromoethane is also known as Ethylene Dibromide

1,2-Dichloroethane is also known as Ethylene Dichloride

Tetrachloroethene is also known as Tetrachloroethylene / Perchloroethene / Perchloroethylene / PERC / or PCE

Trichloroethene is also known as Trichloroethylene or TCE

Ch. NR 720 Residual Contaminant Levels established by Wisconsin Department of Natural Resources for the Protection of Groundwater Quality

Residual Contaminant Levels (RCLs) calculated from WDNR Excel Spreadsheet at the Following website address: <http://dnr.wi.gov/topic/Brownfields/documents/tech/RCLs1213.xlsm>

\* PID May not have been working properly due to wet soil in previous sample.

**Table 2 Continued**  
**Soil Chemistry Data - Soil Borings**  
**WDNR PCE Contamination Investigation - Three Lakes, WI (BRRTS #02-44-000267)**

July 2020  
Page 1 of 2

SAMPLE I.D.		MW-7P	DUPLICATE	MeOH Blank											
SAMPLE DEPTH (Ft.)		18-20'													
SAMPLE COLLECTION DATE		6/18/2020													
PID Reading (instrument units - i.u.)		0	0	0											
ANALYTICAL PARAMETERS	WDNR NR 720 RCLs														
VOCs (mg/kg)	mg/kg														
Benzene	0.0051	<0.010	<0.011	<0.011											
Ethylbenzene	1.57	<0.010	<0.011	<0.011											
Methyl-tert-butyl ether	0.027	<0.015	<0.016	<0.016											
Toluene	1.1072	<0.015	<0.016	<0.016											
1,2,4-Trimethylbenzene		<0.010	<0.011	<0.017											
1,3,5-Trimethylbenzene	1.3787	<0.012	<0.013	<0.013											
o -Xylenes		<0.0068	<0.0068	<0.0070											
m & p - xylenes	3.96	<0.025	<0.024	<0.025											
1,2-Dibromoethane															
1,2-Dichloroethane															
Tetrachloroethene	0.0045	<0.010	<0.011	<0.011											
Trichloroethene															

VOCs = Volatile Organic Compounds EPA Method 8260 (No Other Compounds Analyzed Were Detected Above Lab Detection Limits - See Lab Report for Complete Results)

Results presented as milligrams per kilogram (mg/Kg), which is equivalent to parts per million (ppm)

Photoionization Detector (PID) calibrated to 100 parts per million isobutylene

1,2-Dibromoethane is also known as Ethylene Dibromide

1,2-Dichloroethane is also known as Ethylene Dichloride

Tetrachloroethene is also known as Tetrachloroethylene / Perchloroethene / Perchloroethylene / PERC / or PCE

Trichloroethene is also known as Trichloroethylene or TCE

Ch. NR 720 Residual Contaminant Levels established by Wisconsin Department of Natural Resources

Residual Contaminant Levels (RCLs) calculated from WDNR Excel Spreadsheet at the Following website address:

**Table 2**  
**Summary of Groundwater Chemistry Data - Monitoring Wells**  
**WDNR PCE Contamination Investigation - Three Lakes, WI (BRRTS #02-44-000267)**

Sample ID			MW-1	MW-1P	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-7P	DUPLICATE	FIELD BLANK
Well Type			Pro-Top	Pro-Top	Pro-Top	Pro-Top	Flushmount	Pro-Top	Flushmount	Flushmount	Flushmount		
Well Depth (Ft. from Surface)			17'	37'	20'	15'	30'	32'	35'	32'	47.7'		
Ground Elevation (MSL)			1643.08	1643.14	1647.84	1640.41	1660.91	1659.94	1664.18	1662.46	1662.39		
Depth to Groundwater			12	11.07	15.76	8.43	24.82	26.97	27.72	26.76	26.68		
Screened Interval (Ft.)			7-17'	32-37'	10-20'	5-15'	20-30'	22-32'	25-35'	22-32'	42.7-47.7'		
Top of PVC (MSL)			1645.32	1645.37	1650.34	1642.74	1660.38	1662.29	1663.82	1662.29	1662.21		
Water Elevation (MSL)			1633.32	1634.3	1634.58	1634.31	1635.56	1635.32	1636.1	1635.53	1635.53		
Sample Collection Date			06/30/20	06/30/20	06/30/20	06/30/20	06/30/20	06/30/20	06/30/20	06/30/20	06/30/20	06/30/20	06/30/20
<b>ANALYTICAL PARAMETERS</b>	<b>NR 140 PAL</b>	<b>NR 140 ES</b>										Duplicate of MW-4	
<b>VOCs (µg/L)</b>													
Benzene	0.5	5	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylbenzene	140	700	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Methyl-tertiary-butyl ether	12	60	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Toluene	160	800	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Trimethylbenzenes (combined)	96	480	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Xylenes (combined)	400	2,000	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96
1,2-Dibromoethane (EDB)	0.005	0.050	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
1,2-Dichloroethane	0.5	5	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
Tetrachloroethene (PCE)	0.5	5	<0.27	<0.27	<0.27	0.47	<b>1.5</b>	<b>0.73</b>	0.28	<b>1.2</b>	<0.27	<b>1.6</b>	<0.27
Trichloroethene (TCE)	0.5	5	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
<b>FIELD PARAMETERS</b>													
Odor			None	None	None	None	None	None	None	None	None	None	None
Color			Slight	Slight	Slight	Slight	Slight	Slight	Slight	Slight	Slight	Slight	Slight
Turbidity			None	None	None	None	None	None	None	None	None	None	None

**Notes:**

Results presented as micrograms per liter (µg/L), which is equivalent to parts per billion (ppb), unless otherwise noted.

VOCs = Volatile Organic Compounds (Groundwater Samples analyzed using Method EPA 8260); no other compounds analyzed were detected above the laboratory detection limits. See lab report for complete results.

MSL = Mean Sea Level

1,2-Dibromoethane (EDB) is also known as Ethylene Dibromide

1,2-Dichloroethane is also known as Ethylene Dichloride

Tetrachloroethene is also known as Tetrachloroethylene / Perchloroethylene / Perc /and PCE

Trichloroethene is also known as Trichloroethylene or TCE

ch. NR 140 Preventive Action Limit (PAL) Exceedance

<b>23</b>
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ch. NR 140 Enforcement Standard (ES) Exceedance

<b>157</b>
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