

Attachment A.2
SOIL ANALYTICAL RESULTS
Additional Site Investigation
Chippewa Quick Mart
Glidden, Wisconsin

SAMPLE/BORING #	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	P-1	D-1	D-2	D-3	D-4	Soil RCLs (mg/kg)		
DEPTH to Water Table (ft BGS)	4.00	4.00	4.00	4.00	4.00	4.00	3.00	3.00	3.00	10.00	12.00	10.00	10.00	10.00	Calculated 12/2018		
Date Collected	6-Sep-17	6-Sep-17	6-Sep-17	6-Sep-17	6-Sep-17	6-Sep-17	6-Sep-17	6-Sep-17	6-Sep-17	6-Sep-17	6-Sep-17	6-Sep-17	6-Sep-17	6-Sep-17			
DEPTH (ft BGS)	10	10	10	10	10	10	11	11	11	4	2	4	4	4			
SOIL TYPE	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand			
	Soil Concentrations in mg/kg (or ppm)														Non-Industrial Direct Contact	Industrial Direct Contact	Soil to GW
PVOCs+Naphthalene																	
Benzene	<0.0266	<0.0262	<0.0303	<0.0315	<i>0.254</i>	<0.0363	<0.0267	<0.0262	<0.0296	<0.0282	<0.0274	<i>0.0639</i>	<0.0359	<0.0291	1.6	7.07	0.0051
Ethylbenzene	<0.0266	<0.0262	<0.0303	<0.0315	0.338	<0.0363	<0.0267	<0.0262	<0.0296	<0.0282	<0.0274	<0.0298	<0.0359	<0.0291	8.02	35.4	1.57
Toluene	<0.266	<0.262	<0.303	<0.315	0.981	<0.363	<0.267	<0.262	<0.296	<0.282	<0.274	<0.298	<0.359	<0.291	818	818	1.1072
M&P Xylene	<0.0532	<0.0525	<0.0606	<0.0631	1.37	<0.0727	<0.0534	<0.0525	<0.0591	<0.0563	<0.0547	<0.0595	<0.0717	<0.0581	260*	260*	3.96*
O-Xylene	<0.0266	<0.0262	<0.0303	<0.0315	0.671	<0.0363	<0.0267	<0.0262	<0.0296	<0.0282	<0.0274	<0.0298	<0.0359	<0.0291	260*	260*	3.96*
1,2,4-Trimethylbenzene	<0.0532	<0.0525	<0.0606	<0.0631	<i>1.88</i>	<0.0727	<0.0534	<0.0525	<0.0591	<0.0563	<0.0547	<0.0595	<0.0717	<0.0581	219	219	1.3787*
1,3,5-Trimethylbenzene	<0.0532	<0.0525	<0.0606	<0.0631	0.334	<0.0727	<0.0534	<0.0525	<0.0591	<0.0563	<0.0547	<0.0595	<0.0717	<0.0581	182	182	1.3787*
Naphthalene	<0.266	<0.262	<0.303	<0.315	<0.388	<0.363	<0.267	<0.262	<0.296	<0.282	<0.274	<0.298	<0.359	<0.291	5.52	24.1	0.6582
Methyl tert-butyl ether	<0.0532	<0.0525	<0.0606	<0.0631	<0.0775	<0.0727	<0.0534	<0.0525	<0.0591	<0.0563	<0.0547	<0.0595	<0.0717	<0.0581	63.8	282	0.027
GRO	<5.32	<5.25	<6.06	<6.31	47.6	<7.27	<5.34	<5.25	<5.91	<5.63	<5.47	<5.95	<7.17	<5.81			
No. of Individual Exceedances (DC)																	
Cumulative Hazard Index (DC)																	
Cumulative Cancer Risk (DC)																	

Exceedance Highlights:

Italicized values indicate a Soil to GW RCL exceedance

Bold font indicates a Direct Contact RCL exceedance within 4 feet of the ground surface.

Blanks indicate parameter was not analyzed. Only compounds detected in at least one sample are included in table. See laboratory report for all results.

* = standard is for total analytes of compound.

ND = parameter not detected above respective laboratory limit of detection (LOD).

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SAMPLE/BORING #	S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8	S-9	S-10	S-11	S-12	S-13	S-14	Soil RCLs (mg/kg)		
DEPTH to Water Table (ft BGS)	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	Calculated 12/2018		
Date Collected	6-Sep-17	6-Sep-17	6-Sep-17	6-Sep-17	6-Sep-17	6-Sep-17	6-Sep-17	6-Sep-17	6-Sep-17	6-Sep-17	6-Sep-17	6-Sep-17	6-Sep-17	6-Sep-17			
DEPTH (ft BGS)	6	6	6	6	6	6	6	6	6	6	6	6	6	6			
SOIL TYPE	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand			
	Soil Concentrations in mg/kg (or ppm)														Non-Industrial Direct Contact	Industrial Direct Contact	Soil to GW
PVOCs+Naphthalene																	
Benzene	<0.0317	<0.0266	<0.0272	<0.0261	<i>0.217</i>	<0.0310	<0.0298	<0.0326	<0.0269	<0.0262	<0.0275	<0.0264	<0.0262	<0.0267	1.6	7.07	0.0051
Ethylbenzene	<0.0317	<0.0266	<0.0272	<0.0261	<i>1.57</i>	<0.0310	<0.0298	<0.0326	<0.0269	<0.0262	<0.0275	<0.0264	<0.0262	<0.0267	8.02	35.4	1.57
Toluene	<0.317	<0.266	<0.272	<0.261	<i>2.5</i>	<0.310	<0.298	<0.326	<0.269	<0.262	<0.275	<0.264	<0.262	<0.267	818	818	1.1072
M&P Xylene	<0.0633	<0.0533	<0.0545	<0.0522	<i>5.98</i>	<0.0620	<0.0596	<0.0652	<0.0539	<0.0524	<0.0550	<0.0529	<0.0523	<0.0535	260*	260*	3.96*
O-Xylene	<0.0317	<0.0266	<0.0272	<0.0261	<i>2.59</i>	<0.0310	<0.0298	<0.0326	<0.0269	<0.0262	<0.0275	<0.0264	<0.0262	<0.0267	260*	260*	3.96*
1,2,4-Trimethylbenzene	<0.0633	<0.0533	<0.0545	<0.0522	<i>6.56</i>	<0.0620	<0.0596	<0.0652	<0.0539	<0.0524	<0.0550	<0.0529	<0.0523	<0.0535	219	219	1.3787*
1,3,5-Trimethylbenzene	<0.0633	<0.0533	<0.0545	<0.0522	<i>1.7</i>	<0.0620	<0.0596	<0.0652	<0.0539	<0.0524	<0.0550	<0.0529	<0.0523	<0.0535	182	182	1.3787*
Naphthalene	<0.317	<0.266	<0.272	<0.261	<0.299	<0.310	<0.298	<0.326	<0.269	<0.262	<0.275	<0.264	<0.262	<0.267	5.52	24.1	0.6582
Methyl tert-butyl ether	<0.0633	<0.0533	<0.0545	<0.0522	<i>0.0853</i>	<0.0620	<0.0596	<0.0652	<0.0539	<0.0524	<0.0550	<0.0529	<0.0523	<0.0535	63.8	282	0.027
GRO	<6.33	<5.33	<5.45	<5.22	166	<6.20	<5.96	<6.52	<5.39	<5.24	<5.50	<5.29	<5.23	<5.35			
No. of Individual Exceedances (DC)																	
Cumulative Hazard Index (DC)																	
Cumulative Cancer Risk (DC)																	

Exceedance Highlights:

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SAMPLE/BORING #	GP-1	GP-1	GP-2	GP-2	GP-3	GP-3	GP-4	GP-4	GP-5	GP-5	GP-6	GP-6	Soil RCLs (mg/kg)			
DEPTH to Water Table (ft BGS)	14.05	14.05	14.69	14.69	14.50	14.50	14.00	14.00	14.50	14.50	14.50	14.50	Calculated 12/2018			
Date Collected	20-Sep-22	20-Sep-22	20-Sep-22	20-Sep-22	20-Sep-22	20-Sep-22	20-Sep-22	20-Sep-22	20-Sep-22	20-Sep-22	20-Sep-22	20-Sep-22				
DEPTH (ft BGS)	0-4	8-10	0-4	8-10	0-4	8-10	0-4	8-10	0-4	12-14	0-4	10-12				
SOIL TYPE	Sand	Silty Sand	Sand	Sand	Sand	Silty Sand	Sand	Silty Sand	Sand	Silty Sand	Sand	Silty Sand				
	Soil Concentrations in mg/kg (or ppm)												Non-Industrial Direct Contact	Industrial Direct Contact	Soil to GW	
PVOCs+Naphthalene																
Benzene	<0.0291	<0.031	<0.0258	<0.0307	<0.0261	<0.0293	<0.0274	<0.0305	<0.0300	<0.0268	<0.0278	<0.0295	1.6	7.07	0.0051	
Ethylbenzene	<0.0291	<0.031	<0.0258	<0.0307	<0.0261	<0.0293	<0.0274	<0.0305	<0.0300	<0.0268	<0.0278	<0.0295	8.02	35.4	1.57	
Toluene	<0.291	<0.310	<0.258	<0.307	<0.261	<0.293	<0.274	<0.305	<0.300	<0.268	<0.278	<0.295	818	818	1.1072	
M&P Xylene	<0.0582	<0.0619	<0.0516	<0.0614	<0.0520	<0.586	<0.0548	<0.0609	<0.0599	<0.0537	<0.0556	<0.0589	260*	260*	3.96*	
O-Xylene	<0.0291	<0.031	<0.0258	<0.0307	<0.0261	<0.0293	<0.0274	<0.305	<0.0268	<0.0268	<0.0278	<0.0289	260*	260*	3.96*	
1,2,4-Trimethylbenzene	<0.0582	<0.0619	<0.0516	<0.0614	<0.0520	<0.0586	<0.0548	<0.0609	<0.0599	<0.0537	<0.0556	<0.0589	219	219	1.3787*	
1,3,5-Trimethylbenzene	<0.0582	<0.0619	<0.0516	<0.0614	<0.0520	<0.0586	<0.0548	<0.0609	<0.0599	<0.0537	<0.0556	<0.0589	182	182	1.3787*	
Naphthalene	<0.291	<0.310	<0.258	<0.307	<0.261	<0.293	<0.274	<0.305	<0.300	<0.268	<0.278	<0.295	5.52	24.1	0.6582	
Methyl tert-butyl ether	<0.0582	<0.0619	<0.0516	<0.0614	<0.0520	<0.0586	<0.0548	<0.0609	<0.0599	<0.0537	<0.0556	<0.0589	63.8	282	0.027	
GRO	<5.02	<6.19	<5.16	<6.14	<5.20	<5.86	<5.48	<5.99	<5.99	<5.37	<5.56	<5.89				
No. of Individual Exceedances (DC)																
Cumulative Hazard Index (DC)																
Cumulative Cancer Risk (DC)																

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