

Table 1

## SOIL ANALYTICAL DATA - BTEX/MTBE

TN #1921  
25809 North Midlothian Road  
Mundelein, Illinois

Tier 1 Soil Remediation Objectives for Residential Properties			Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)
<i>Ingestion - residential</i>			12	16,000	7,800	16,000	780
<i>Ingestion - construction worker</i>			2,300	410,000	20,000	41,000	2,000
<i>Inhalation - residential</i>			0.8	650	400	320	8,800
<i>Inhalation - construction worker</i>			2.2	42	58	5.6	140
<i>Soil Component of Groundwater (I)</i>			0.03	12	13	150	0.32
<i>Soil Component of Groundwater (II)</i>			0.17	29	19	150	0.32
Soil Boring Description	Sample Date	Depth (feet)					
SB-1/MW-3	5/13/08	3	<b>2.26</b>	0.55	4.03	<b>6.86</b>	<0.058
SB-2/MW-2	5/13/08	5	<b>0.514</b>	<0.049	6.81	<b>15.41</b>	<0.049
SB-3/MW-5	5/13/08	5	<b>2.02</b>	0.224	4.04	<b>3.159</b>	<b>0.443</b>
SB-4/MW-1	5/13/08	5	<b>5.6</b>	<b>17.7</b>	<b>15.7</b>	<b>76.5</b>	0.112
SB-5/MW-4	5/13/08	5	<b>1.6</b>	2.13	6.35	<b>20.59</b>	0.103
SB-6/MW-6	9/4/08	4	0.0013	0.0043	0.0019	0.0047	<0.004
SB-6/MW-6	9/4/08	8	<b>0.4883</b>	<0.0839	8.715	<b>41.709</b>	<b>&lt;0.42</b>
SB-7/MW-7	9/4/08	3	0.0013	0.0038	0.0012	<0.0027	<0.005
SB-7/MW-7	9/4/08	7	0.0017	0.0038	0.0014	0.0043	<0.004
SB-8/MW-8	9/4/08	2	0.0056	0.0060	0.0031	0.0083	<0.005
SB-8/MW-8	9/4/08	7	0.0014	0.0042	0.0018	0.0032	0.04
SB-9/MW-9	3/30/10	2	0.0012	0.0017	<0.0011	<0.0011	<0.0054
SB-9/MW-9	3/30/10	6	<0.0011	<0.0011	<0.0011	<0.0011	<0.0057
SB-10/MW-10	3/30/10	2	<0.001	<0.001	<0.001	<0.001	<0.0052
SB-10/MW-10	3/30/10	8	<0.0009	<0.0009	<0.0009	<0.0009	<0.0045
SB-10/MW-10	3/30/10	12*	<0.0011	0.0014	<0.0011	<0.0011	<0.0057
SB-11/MW-11	3/30/10	4	<0.001	0.0015	<0.001	<0.001	<0.0052
SB-11/MW-11	3/30/10	6	<0.0012	<0.0012	<0.0012	<0.0012	<0.0061
SB-12/MW-12	3/30/10	4	<0.0013	0.0013	<0.0013	<0.0013	<0.0063
SB-12/MW-12	3/30/10	6	<0.0013	<0.0013	<0.0013	<0.0013	<0.0065
SB-13/MW-13	3/30/10	4	<0.0012	<0.0012	<0.0012	<0.0012	<0.006
SB-13/MW-13	3/30/10	8	<0.0008	<0.0008	<0.0008	<0.0008	<0.0041
SB-14/MW-14	3/30/10	2	<0.0008	0.0011	<0.0008	<0.0008	<0.004
EW	9/17/10	6	<b>0.1865</b>	0.0997	0.1549	0.2713	<0.1385
NEB	9/21/10	13*	<0.023	<0.023	<0.023	<0.023	<b>1.605</b>
SEB	9/21/10	13*	<0.0222	<0.0222	0.0425	0.3136	<b>1.505</b>
NB	9/21/10	13*	<0.0222	<0.0222	<0.0222	<0.0222	<b>0.4433</b>
SB	9/21/10	13*	0.0284	<0.0213	<0.0213	<0.0213	<b>2.368</b>
NWB	9/22/10	13*	<b>2.5100</b>	0.0720	<0.0220	0.1880	0.158
SWB	9/22/10	13*	<b>0.1140</b>	0.1016	0.6066	2.6860	<b>0.5699</b>
NEC	9/27/10	8	<b>3.747</b>	0.3264	7.076 D	<b>8.868</b>	<0.1116
NC	9/27/10	10*	<b>7.693 D</b>	0.2514	3.769	<b>9.2590</b>	<0.1186
EC	9/27/10	10*	<b>7.1440</b>	0.4659	4.893	<b>6.372</b>	<0.2049
CC	9/28/10	11*	<b>14.61</b>	0.8985	11.39	<b>19.67</b>	<b>&lt;0.5533</b>
NWC	9/28/10	12*	<b>4.992 D</b>	3.024	4.204	<b>10.121</b>	<0.1191
W1C	9/29/10	11*	<b>0.7253</b>	<0.0254	0.0496	0.0905	0.1271
WC	9/30/10	12*	<b>1.578</b>	1.207	0.7746	3.179	0.1679
W2	9/30/10	6	<b>&lt;0.0399</b>	<0.0399	<0.0399	0.1194	<0.1997
W3	9/30/10	6	<b>1.147</b>	0.6889	11.69 D	<b>45.59</b>	<0.1107
SWC	9/30/10	9	<b>2.836</b>	0.0440	0.0344	0.2448	<b>0.3315</b>
W4	9/30/10	6	<b>0.9231</b>	0.0623	7.551	<b>10.54</b>	<0.2037
W5	9/30/10	6	<b>1.261</b>	0.2844	9.398 D	<b>33.47</b>	<0.1300
W6	9/30/10	3	<b>0.1806</b>	0.0034	0.6196 D	1.399	0.0434
W7	9/30/10	6	<b>1.479</b>	0.0536	6.362 D	2.365	<b>0.8899</b>
B1	9/30/10	9	<b>0.4669</b>	0.0323	2.705	0.7356	0.1429
B2	9/30/10	9	<b>1.954</b>	0.0724	1.712	2.194	0.3171
W8	10/1/10	6	<b>0.3324</b>	0.1009	0.4492	0.7091	<0.1116
W9	10/1/10	6	<b>0.934</b>	0.1521	2.94	3.792	<0.11
W10	10/1/10	6	<b>5.118</b>	0.1656	4.516	3.007	<0.2306
W11	10/1/10	5	<b>0.2319</b>	<0.0225	0.1195	0.042	<0.1124
DSW	10/1/10	4	<0.0236	<0.0236	1.431	2.017	<0.1178
P-2	10/1/10	2	<b>1.005</b>	0.2349	7.363	<b>7.359</b>	<0.2457

## NOTES:

1. mg/kg = milligrams per kilogram or parts per million (ppm)
2. <# = Not detected above analytical method detection limit
3. **Bold** = Concentrations above Tier 1 Soil Remediation Objectives for Class I Groundwater
4. D = the result is from a diluted sample
5. Shaded cells = removed by excavation
6. \* = samples collected below apparent groundwater level

Table 2

## GROUNDWATER ANALYTICAL DATA - BTEX/MTBE

TN #1921  
25809 North Midlothian Road  
Mundelein, Illinois

Tier 1 Groundwater Remediation Objectives for the Groundwater Ingestion Exposure Route					Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)
Class I Groundwater Remediation Objectives					5	1,000	700	10,000	70
Sample Location	Sample Date	Referenced Elevation	Depth to Groundwater	Groundwater Elevation					
MW-1	06/10/2008	99.06	13.52	85.54	<b>1,640</b>	379	182	622	12
	09/24/2008	99.06	4.39	94.67	<b>2,062 D</b>	29.11	125.8	70.57	<b>137.4</b>
	02/11/2009	99.06	2.86	96.20	<b>3,285 D</b>	150.4	262.9	339	<b>148.1</b>
	10/22/2009	99.06	3.45	95.61	<b>5,246 D</b>	669.8 D	399.4	970.5	<b>184.7</b>
	03/31/2010	99.06	3.90	95.16	<b>3,175</b>	113.9	310.2	470.1	<b>193.2</b>
	06/22/2010	99.06	2.73	96.33	<b>2,771 D</b>	250.5	335.5	641.5	<b>237.8</b>
	09/08/2010	99.06	3.45	95.61	<b>3,922</b>	350.7	298.9	582.8	<b>223.1</b>
Removed by Excavation									
MW-2	06/10/2008	99.13	3.86	95.27	<b>268</b>	33	<2.0	18.6	20
	09/24/2008	99.13	2.17	96.96	<b>255.3</b>	1.14	89.83	23.68	<b>7,898 D</b>
	02/11/2009	99.13	0.00	99.13	<b>170.4</b>	<1	67.84	47	<b>3,984 D</b>
	10/22/2009	99.13	0.70	98.43	<b>233.5</b>	2.04	60.63	175.1	<b>4,790 D</b>
	03/31/2010	99.13	3.21	95.92	<b>55.28</b>	<1	22.49	11.56	<b>2,514 D</b>
	06/22/2010	99.13	3.17	95.96	<b>58.71</b>	<1	19.59	19.91	<b>4,885 D</b>
	09/08/2010	99.13	4.57	94.56	<b>244.3</b>	4.503	80.65	97.07	<b>3,987</b>
Removed by Excavation									
MW-3	06/10/2008	99.58	3.75	95.83	<b>180</b>	<25	<25	<25	<b>7,240</b>
	09/24/2008	99.58	1.60	97.98	<b>1,910 D</b>	35.77	288.5	372.5	<b>1,227</b>
	02/11/2009	99.58	2.68	96.90	<b>37.47</b>	7.483	6.144	14.605	<b>54.98</b>
	10/22/2009	99.58	4.31	95.27	<b>1,947</b>	296.2	311.4	720.8	<b>1,161</b>
	03/31/2010	99.58	4.13	95.45	<b>894.4</b>	5.45	155.2	110.1	<b>593.6</b>
	06/22/2010	99.58	4.45	95.13	<b>116.6</b>	7.1	12.07	17.03	<b>1,566</b>
	09/08/2010	99.58	5.03	94.55	<b>108.1</b>	3.496	10.55	7.844	<b>1,522</b>
Removed by Excavation									
MW-4	06/10/2008	99.29	3.88	95.41	<b>825</b>	501	88	415	<b>1,270</b>
	09/24/2008	99.29	4.89	94.40	<b>2,894 D</b>	470.5 D	379.5 D	732.9	<b>33.69</b>
	02/11/2009	99.29	3.85	95.44	<b>2,613 D</b>	386.5	282.3	569	<b>28.77</b>
	10/22/2009	99.29	4.34	94.95	<b>2,700 D</b>	390.1	409.2 D	684.1	<b>38.04</b>
	03/31/2010	99.29	3.77	95.52	<b>1,352 D</b>	39.53	175.7	227.6	<b>19.51</b>
	06/22/2010	99.29	4.02	95.27	<b>1,504 D</b>	74.35	293.5	335.5	<b>34.76</b>
	09/08/2010	99.29	4.67	94.62	<b>2,796 D</b>	230.2	433.4	552.4	<b>38.52</b>
Removed by Excavation									
MW-5	06/10/2008	97.63	7.63	90.00	3	<5	<5	<5	<b>565</b>
	09/24/2008	97.63	3.73	93.90	<b>268.8</b>	<1	150.5	86.32	<b>1,305</b>
	02/11/2009	97.63	0.00	97.63	NS	NS	NS	NS	NS
	10/22/2009	97.63	5.22	92.41	<b>216.8</b>	1.66	131.8	41.78	<b>1,234</b>
	03/31/2010	97.63	1.86	95.77	<b>150.3</b>	<1	176.7	18.45	<b>899.7</b>
	06/22/2010	97.63	4.27	93.36	<b>114.7</b>	<1	96.94	7.18	<b>900.7</b>
	09/08/2010	97.63	5.50	92.13	<b>36.43</b>	<1	32.73	2.658	<b>1,166</b>
Removed by Excavation									
MW-6	09/24/2008	98.77	9.35	89.42	<b>161.9</b>	7.2	54.78	123.53	<5
	02/11/2009	98.77	7.40	91.37	<b>139.9</b>	2.32	90.27	58.39	<5
	10/22/2009	98.77	9.69	89.08	<b>21.02</b>	<1	<1	<1	<5
	03/31/2010	98.77	6.98	91.79	<b>57.3</b>	<1	4.25	8.97	<5
	06/22/2010	98.77	8.68	90.09	<b>69.09</b>	<1	10.06	2.72	<5
	09/08/2010	98.77	9.90	88.87	<b>5,156</b>	<1	<1	<1	<5
	01/25/2011	98.77	9.88	88.89	<2	<2	<2	<2	<2
MW-7	09/24/2008	98.62	10.33	88.29	Insufficient water for sample				
	02/11/2009	98.62	10.51	88.11	Insufficient water for sample				
	10/22/2009	98.62	10.61	88.01	Insufficient water for sample				
	03/31/2010	98.62	10.67	87.95	<b>102.1</b>	<1	12.2	<1	<5
	06/22/2010	98.62	10.66	87.96	<b>10.84</b>	<1	3.86	<1	<5
	09/08/2010	98.62	NG	NG	NS	NS	NS	NS	NS
	09/16/2010	98.62	10.65	87.97	2.07	4	3.63	<1	<5
Unable to Locate									
MW-8	09/24/2008	97.87	5.71	92.16	3.45	<1	6.82	2.71	38.02
	02/11/2009	97.87	4.43	93.44	2.335	<1	8.657	2.213	32.4
	10/22/2009	97.87	6.00	91.87	<b>22.87</b>	<1	79.26	8.78	<b>262.2</b>
	03/31/2010	97.87	6.20	91.67	<b>30.19</b>	<1	38.81	3.41	<b>311.5</b>
	06/22/2010	97.87	5.75	92.12	<b>65.22</b>	<1	180.2	27.93	<b>326.1</b>
	09/08/2010	97.87	6.67	91.20	<b>36.06</b>	<1	87.93	19.01	<b>230.3</b>
	Removed by Excavation								
MW-9	03/31/2010	98.90	3.10	95.80	<b>31.9</b>	<1	38.76	135.2	<5
	06/22/2010	98.90	7.80	91.10	<b>129.9</b>	9.43	152.4	291.2	<5
	09/08/2010	98.90	9.93	88.97	<b>123.9</b>	1.489	43.33	22.81	<5
	01/25/2011	98.90	4.24	94.66	<2	<2	<2	<2	<2
MW-10	03/31/2010	98.48	13.48	85.00	<1	<1	<1	<1	<5
	06/22/2010	98.48	7.16	91.32	NS	NS	NS	NS	NS
	09/08/2010	98.48	8.23	90.25	NS	NS	NS	NS	NS
	01/25/2011	98.48	NG	NG	Unable to Locate				
MW-11	03/31/2010	96.76	15.09	81.67	<1	<1	<1	<1	5.76
	06/22/2010	96.76	5.60	91.16	NS	NS	NS	NS	NS
	09/08/2010	96.76	7.05	89.71	NS	NS	NS	NS	NS
	01/25/2011	96.76	NG	NG	Unable to Locate				
MW-12	03/31/2010	97.93	Dry	Dry	NS	NS	NS	NS	NS
	06/22/2010	97.93	7.24	90.69	<1	<1	<1	<1	<5
	09/08/2010	97.93	8.04	89.89	NS	NS	NS	NS	NS
	01/25/2011	97.93	7.30	90.63	NS	NS	NS	NS	NS
MW-13	03/31/2010	101.27	2.98	98.29	<1	<1	<1	<1	<5
	06/22/2010	101.27	2.52	98.75	NS	NS	NS	NS	NS
	09/08/2010	101.27	3.07	98.20	NS	NS	NS	NS	NS
	01/25/2011	101.27	NG	NG	Unable to Locate				
MW-14	03/31/2010	100.19	1.15	99.04	<1	<1	<1	<1	<5
	06/22/2010	100.19	1.15	99.04	NS	NS	NS	NS	NS
	09/08/2010	100.19	2.97	97.22	NS	NS	NS	NS	NS
	01/25/2011	100.19	3.30	96.89	NS	NS	NS	NS	NS

## NOTES:

1. ug/L = micrograms per liter
2. NS = Not Sampled
3. NG = Not Gauged
4. <# = Not detected above the method detection limit indicated
5. **Bold** values indicate concentrations above Title 35 IAC Part 742 Tier 1 Groundwater Remediation Objectives for Class I groundwater
6. D = The result is from a diluted sample