



**TETRA TECH**

**GROUNDWATER MONITORING REPORT**

**KONOP PROPERTY SITE  
110 BUSINESS HIGHWAY 141 N  
COLEMAN, WISCONSIN**

**Tetra Tech #114-330854  
WDNR BRRTS #03-38-548949  
WDCOM #54112-9792-10  
January 20, 2011**

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Received 01-24-11



1837 County Highway OO  
Chippewa Falls, WI 54729-6519

Office 715.832.0282  
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January 20, 2011

Kristin DuFresne  
WDNR  
2984 Shawano Avenue  
Green Bay, WI 54313-6727

Re: Groundwater Monitoring Report for the Konop Property Site,  
110 Business Highway 141 N, Coleman, Marinette County, Wisconsin.  
**WDNR BRRTS #03-38-548949.** WDCOM #54112-9792-10.  
Tetra Tech Project #114-330854.

Dear Ms. DuFresne:

This report documents three rounds of groundwater sampling at the Konop Property site, 110 Business Highway 141 N, Coleman, Wisconsin. See Figure 1.

Results of our groundwater monitoring show that petroleum constituents remain present on and off site at concentrations exceeding NR 140 enforcement standards (ESs). Contaminant trends in PZ-2, PZ-4, and MW-F are stable and decreasing. Mann-Kendall tests confirm the trends.

Besides the groundwater pathway, there are no other pathways or receptors, such as water supply pathways, surface waters, sensitive environments, utility trenches, or plant uptake and food chain, through which petroleum can move. There are two environmental factors as outlined in NR 746 including groundwater contamination within the limestone bedrock and the petroleum release is greater than 10 years old.

Based on these results, Tetra Tech recommends the Wisconsin Department of Natural Resources (WDNR) review the site for closure. If WDNR agrees Tetra Tech will submit a closure application.

#### ***Purpose and Scope***

This report documents the results of groundwater sampling events completed in May 2010, October 2010, and December 2010.

#### ***Well Installation and Groundwater Testing Methods***

Tetra Tech installed and developed one groundwater monitoring well (MW-12) and one piezometer (PZ-7) at the Konop Property site. The monitoring well was installed at a depth of 18 feet below ground surface (bgs) and screened from approximately 8 to 18 feet bgs. Piezometer depths are 32 feet bgs and screened from approximately 27 to 32 feet bgs. The wells were installed and developed according to Chapter NR 141 of the Wisconsin Administrative Code and are shown in Figure 2.

Tetra Tech collected two quarterly rounds of groundwater samples from 12 wells/piezometers and one round from four wells by purging each monitoring well and collecting a sample using a disposable bailer. Bailer contents were emptied into the appropriately preserved containers, and all samples were packed in a cooler and shipped with the chain of custody record. Groundwater samples collected were analyzed for petroleum volatile organic compounds (PVOCs), naphthalene, 1,2-dichloroethane (DCA), and lead. Samples collected from MW-12 and PZ-7 were initially analyzed for volatile organic compounds (VOCs). The samples were shipped to Siemens, Rothschild, Wisconsin.

Appendix A contains groundwater sampling procedures. Appendix B contains monitoring well/piezometer construction forms (Form 4400-113A) and well development forms (Form 4400-113B) for wells MW-12 & PZ-7.

### ***Recent Groundwater Results***

The Wisconsin Department of Natural Resources (WDNR) established groundwater preventive action limits (PALs) and ESs for selected compounds that are listed in Wisconsin Administrative Code NR 140. If a contaminant concentration exceeds the PAL, the WDNR may require monitoring or additional investigation. If the concentration exceeds the ES, the WDNR may require monitoring or remediation.

Benzene (1,550 parts per billion [ppb]), ethylbenzene (2,310 ppb), naphthalene (502 ppb), toluene (8,840 ppb), and total trimethylbenzenes (TMBs) (3,100 ppb) were detected above their respective ESs in monitoring well MW-F. Benzene (520 ppb), 1,2-DCA (8.92 ppb), and total TMBs (530 ppb) were detected above their respective ESs in monitoring well PZ-4.

A benzene concentration above its ES of 5 ppb was detected in well PZ-2 (377 ppb).

Several PVOCs were detected above their respective PALs in well MW-F, PZ-4, and PZ-2.

No PVOCs were detected above laboratory detection limits in wells MW-3, PZ-3, MW-10, PZ-5, MW-8, MW-11, PZ-6, MW-12, and PZ-7.

Groundwater analytical results are summarized in Table 1 and depicted in Figures 3 through 8. Complete laboratory results are included in Appendix C.

### ***Natural Attenuation Monitoring***

#### **Mann-Kendall Tests**

We calculated the stability of the groundwater plume at MW-F, PZ-2, and PZ-4 using the Mann-Kendall statistical test (WDNR Form 4400-215) to determine trends in the groundwater quality in these wells. The groundwater plume is decreasing or stable in wells MW-F, PZ-2, and PZ-4. Appendix D includes a copy of the Mann-Kendall Statistical test for wells MW-F, PZ-2, and PZ-4.

### ***Risk Assessment***

Tetra Tech completed a risk analysis based on the criteria outlined in Wisconsin Administrative Code Chapter 746. We evaluated the criteria to determine the appropriate remedial approach for the site. Based on our evaluation the following risks exist at the site:

- 746.06(2) (a)3 – Groundwater contamination is within the limestone bedrock.
- 746.06(2) (f) – The petroleum release is greater than 10 years old.

Appendix E includes a complete NR 746 analysis.

**Conclusions and Recommendations**

Results of our groundwater monitoring show that petroleum constituents remain present on and off site at concentrations exceeding NR 140 ESs. Contaminant trends in PZ-2, PZ-4, and MW-F are stable and decreasing. Mann-Kendall tests confirm the trends.

Besides the groundwater pathway, there are no other pathways or receptors, such as water supply pathways, surface waters, sensitive environments, utility trenches, or plant uptake and food chain, through which petroleum can move. There are two environmental factors as outlined in NR 746 including groundwater contamination within the limestone bedrock and the petroleum release is greater than 10 years old.

Based on these results, Tetra Tech recommends the WDNR review the site for closure. If WDNR agrees Tetra Tech will submit a closure application.

If you have any questions, I can be reached at 715-832-0282.

Sincerely,

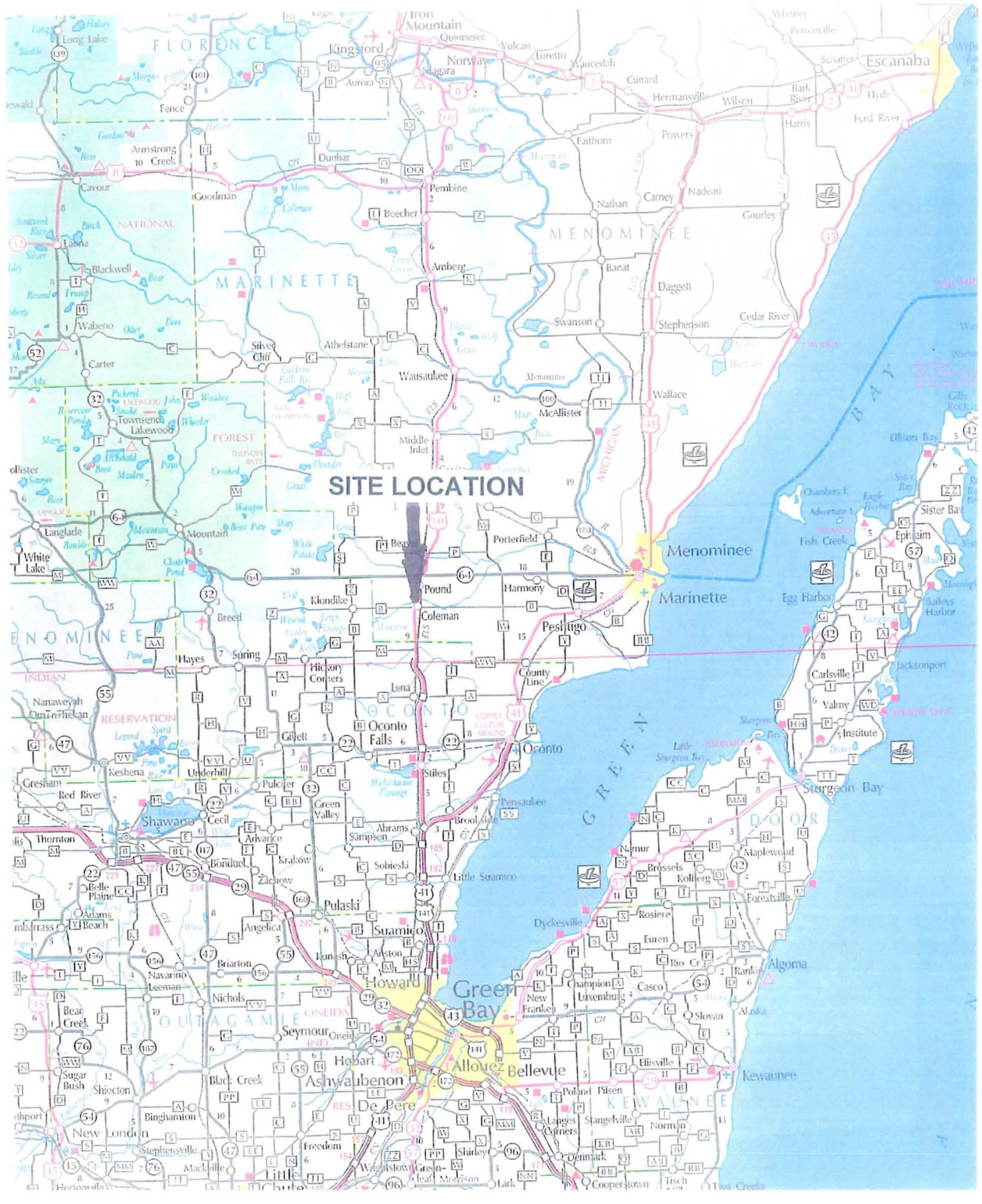


Michael K. Neal, Professional Hydrologist  
Geomorphologist



cc: Dale Konop, 7105 Konitzer Road, Oconto Falls, WI 54154

Beth A. Erdman, WDCOM, 375 City Center, Suite I, Oshkosh, WI 54901-1805



**SITE LOCATION**

**TETRA TECH**  
Chippewa Falls, WI

**FIGURE 1**  
SITE LOCATION MAP  
KONOP PROPERTY SITE  
COLEMAN, WISCONSIN

PROJECT# 114-330125  
DATE: 1/7/2010  
REV. BY: EPO  
SCALE: 1" = 2,100

**TABLE 1 (page 1 of 12)**  
**ANALYTICAL RESULTS - GROUNDWATER**  
**KONOP PROPERTY SITE, COLEMAN, WISCONSIN**

Date	MW-3							NR 140 Remedial Action Limits	
	May-06	Oct-06	Aug-07	Nov-07	Apr-08	May-10	Oct-10		
Relative Elevation (ft)	706.79	705.90	704.05	704.82	705.44	705.87	706.83		
<b>ANALYTE</b>								<i>ES</i>	<i>PAL</i>
Lead (ppb)	---	---	---	---	---	< 0.6	---	15	1.5
VOCs/PVOCs (ppb)									
Benzene	<b>1,600</b>	<b>700</b>	<b>165</b>	<b>116</b>	< 0.3	<b>0.64</b>	<0.2	5	0.5
1,2-DCA	< 6	9	3	7	< 0.5	< 0.2	<0.3	5	0.5
Ethylbenzene	< 6	9	3	7	< 0.5	< 0.2	<0.2	700	140
MTBE	<b>76</b>	<b>82</b>	<b>28</b>	< 3	1.32	< 0.5	<0.5	60	12
Naphthalene	---	---	---	---	---	< 1	<1	100	10
Toluene	<b>380</b>	44	4	< 3	< 0.3	< 0.4	<0.4	1,000	200
1,2,4- & 1,3,5-TMB	< 10	2	3	< 4	< 0.4	< 0.2	<0.2	480	96
Total Xylenes	< 18	110	11	< 6	< 0.6	< 0.4	<0.4	10,000	1,000

ND = Not Detected

--- = not analyzed or no standard

MTBE = methyl-tert-butylether

TMB = trimethylbenzene

DCA = dichloroethane

***Bold italic*** numbers indicate concentrations above the ES outlined in NR 140.10.

**Bold** numbers indicate concentrations above the PAL outlined in NR 140.10.

Well Depth (feet): 12

TOC Elevation (feet): 715.22

Date Installed: 28-Apr-06

Screen Length (feet): 10

**TABLE 1 (page 2 of 12)**  
**ANALYTICAL RESULTS - GROUNDWATER**  
**KONOP PROPERTY SITE, COLEMAN, WISCONSIN**

Date	PZ-3							NR 140 Remedial Action Limits	
	Jun-06	Oct-06	Aug-07	Nov-07	Apr-08	May-10	Oct-10		
Relative Elevation (ft)	701.25	702.43	699.44	699.35	704.18	701.48	703.77		
<b>ANALYTE</b>								<i>ES</i>	<i>PAL</i>
Lead (ppb)	---	---	---	---	---	< 0.6	---	15	1.5
<b>VOCs/PVOCs (ppb)</b>									
Benzene	< 0.4	< 0.1	< 0.3	< 0.3	< 0.3	<b>1.71</b>	<0.2	5	0.5
1,2-DCA	---	---	---	---	---	< 0.3	<0.3	5	0.5
Ethylbenzene	< 0.5	< 0.4	< 0.5	< 0.5	< 0.5	< 0.2	<0.2	700	140
MTBE	3.5	3.7	4	3	< 0.3	< 0.5	<0.5	60	12
Naphthalene	---	---	---	---	---	< 1	<1	100	10
Toluene	< 0.7	< 0.4	< 1	< 1	< 0.3	< 0.4	<0.4	1,000	200
1,2,4- & 1,3,5-TMB	< 1	<0.4	< 0.4	< 0.4	< 0.4	< 0.2	<0.2	480	96
Total Xylenes	< 2	< 1	< 0.6	< 0.6	< 0.6	< 0.4	<0.4	10,000	1,000

ND = Not Detected

--- = not analyzed or no standard

MTBE = methyl-tert-butylether

TMB = trimethylbenzene

DCA = dichloroethane

***Bold italic*** numbers indicate concentrations above the ES outlined in NR 140.10.

**Bold** numbers indicate concentrations above the PAL outlined in NR 140.10.

Well Depth (feet): 35

TOC Elevation (feet): 714.18

Date Installed: 6-Jun-06

Screen Length (feet): 10

**TABLE 1 (page 3 of 12)**  
**ANALYTICAL RESULTS - GROUNDWATER**  
**KONOP PROPERTY SITE, COLEMAN, WISCONSIN**

	MW-10					NR 140 Remedial Action Limits	
	Aug-07	Nov-07	Apr-08	May-10	Oct-10		
Date	Dry	703.54	708.04	706.24	707.49		
Relative Elevation (ft)							
<b>ANALYTE</b>						<i>ES</i>	<i>PAL</i>
Lead (ppb)	---	---	---	< 0.6	---	5	0.5
<b>VOCs/PVOCs (ppb)</b>							
Benzene	---	< 0.2	< 0.3	< 0.2	< 0.2	5	0.5
1,2-DCA	---	---	---	< 0.2	< 0.3	5	0.5
Ethylbenzene	---	< 0.1	< 0.5	< 0.2	< 0.2	700	140
MTBE	---	< 0.2	< 0.3	< 0.5	< 0.5	60	12
Naphthalene	---	< 1	---	< 1	< 1	100	10
Toluene	---	< 0.4	< 0.3	< 0.4	< 0.4	1,000	200
1,2,4- & 1,3,5-TMB	---	< 0.4	< 0.4	< 0.2	< 0.2	480	96
Total Xylenes	---	< 0.6	< 0.6	< 0.4	< 0.4	10,000	1,000

ND = Not Detected

--- = not analyzed or no standard

MTBE = methyl-tert-butylether

TMB = trimethylbenzene

DCA = dichloroethane

***Bold italic*** numbers indicate concentrations above the ES outlined in NR 140.10.

**Bold** numbers indicate concentrations above the PAL outlined in NR 140.10.

Well Depth (feet): 13  
 TOC Elevation (feet): 713.34  
 Date Installed: 30-Aug-07  
 Screen Length (feet): 10



**TABLE 1 (page 4 of 12)**  
**ANALYTICAL RESULTS - GROUNDWATER**  
**KONOP PROPERTY SITE, COLEMAN, WISCONSIN**

	PZ-5					<i>NR 140 Remedial Action Limits</i>	
	Aug-07	Nov-07	Apr-08	May-10	Oct-10		
Date	Aug-07	Nov-07	Apr-08	May-10	Oct-10		
Relative Elevation (ft)	713.30	701.42	705.67	703.10	705.25		
<u>ANALYTE</u>						<i>ES</i>	<i>PAL</i>
Lead (ppb)	---	---	---	< 0.6	---	15	1.5
VOCs/PVOCs (ppb)							
Benzene	<b>1.7</b>	< 0.3	< 0.3	< 0.2	< 0.2	5	0.5
Bromomethane	<b>2</b>	---	---	---	---	10	1
1,2-DCA	---	---	---	0.3	<0.3	5	0.5
Ethylbenzene	< 1	< 0.5	< 0.5	< 0.2	< 0.2	700	140
MTBE	< 0.2	< 0.3	< 0.3	< 0.5	< 0.5	60	12
Naphthalene	---	---	---	< 1	< 1	100	10
Toluene	< 1	< 0.3	< 0.3	< 0.4	< 0.4	1,000	200
1,2,4- & 1,3,5-TMB	< 0.5	< 0.4	< 0.4	< 0.2	< 0.2	480	96
Total Xylenes	< 0.4	< 0.6	< 0.6	< 0.4	< 0.4	10,000	1,000

ND = Not Detected

--- = not analyzed or no standard

MTBE = methyl-tert-butylether

TMB = trimethylbenzene

DCA = dichloroethane

***Bold italic*** numbers indicate concentrations above the ES outlined in NR 140.10.

**Bold** numbers indicate concentrations above the PAL outlined in NR 140.10.

Well Depth (feet): 30  
 TOC Elevation (feet): 713.30  
 Date Installed: 30-Aug-07  
 Screen Length (feet): 5

**TABLE 1 (page 5 of 12)**  
**ANALYTICAL RESULTS - GROUNDWATER**  
**KONOP PROPERTY SITE, COLEMAN, WISCONSIN**

MW-F											NR 140 Remedial Action Limits	
Date	Jun-02	Sep-02	Nov-03	Oct-06	Aug-07	Nov-07	Apr-08	May-10	Oct-10	Dec-10		
Relative Elevation (ft)	---	---	---	706.02	702.00	703.36	708.16	705.76	707.64	705.20		
<b>ANALYTE</b>											<i>ES</i>	<i>PAL</i>
Lead (ppb)	---	---	---	---	---	---	---	<b>4.15</b>	<b>3.82</b>	---	15	1.5
<b>VOCs/PVOCs (ppb)</b>												
Benzene	<b>7,400</b>	<b>3,400</b>	<b>2,400</b>	<b>770</b>	<b>803</b>	<b>1,370</b>	<b>2,910</b>	<b>2,030</b>	<b>1,690</b>	<b>1,550</b>	5	0.5
1,2-DCA	---	---	---	---	---	---	---	<b>45.8</b>	<30	< 60	5	0.5
Ethylbenzene	<b>2,600</b>	<b>2,700</b>	<b>230</b>	<b>2,300</b>	<b>292</b>	<b>1,670</b>	<b>2,960</b>	<b>2,540</b>	<b>2,060</b>	<b>2,310</b>	700	140
MTBE	< 100	< 43	36	< 18	<b>48</b>	< 15	< 150	< 50	<50	< 100	60	12
Naphthalene	---	---	---	---	---	---	---	<b>378</b>	<b>419</b>	<b>502</b>	100	10
Toluene	<b>18,000</b>	<b>13,000</b>	<b>9,200</b>	<b>5,100</b>	<b>2,660</b>	<b>6,230</b>	<b>12,800</b>	<b>9,220</b>	<b>9,150</b>	<b>8,840</b>	1,000	200
1,2,4- & 1,3,5-TMB	<b>2,150</b>	<b>2,140</b>	<b>1,670</b>	<b>2,630</b>	<b>823</b>	<b>1,750</b>	<b>2,305</b>	<b>1,662</b>	<b>1,700</b>	<b>3,100</b>	480	96
Total Xylenes	<b>11,200</b>	<b>9,600</b>	<b>8,300</b>	<b>7,300</b>	<b>3,420</b>	<b>10,690</b>	<b>10,060</b>	<b>8,880</b>	<b>8,400</b>	<b>9,960</b>	10,000	1,000

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--- = not analyzed or no standard

MTBE = methyl-tert-butylether

TMB = trimethylbenzene

DCA = dichloroethane

**Bold italic** numbers indicate concentrations above the ES outlined in NR 140.10.

**Bold** numbers indicate concentrations above the PAL outlined in NR 140.10.

Well Depth (feet): 13  
 TOC Elevation (feet): 715.06  
 Date Installed: 3-Jun-02  
 Screen Length (feet): 5

**TABLE 1 (page 6 of 12)**  
**ANALYTICAL RESULTS - GROUNDWATER**  
**KONOP PROPERTY SITE, COLEMAN, WISCONSIN**

Date	PZ-4						NR 140 Remedial Action Limits	
	Aug-07	Nov-07	Apr-08	May-10	Oct-10	Dec-10	ES	PAL
Relative Elevation (ft)	715.12	700.21	696.50	697.62	705.30	703.00		
<b>ANALYTE</b>								
Lead (ppb)	---	---	---	< 0.6	---	---	15	1.5
<b>VOCs/PVOCs (ppb)</b>								
Benzene	<b>132</b>	<b>563</b>	<b>869</b>	<b>1,010</b>	<b>941</b>	<b>520</b>	5	0.5
1,2-DCA	<b>3</b>	---	---	<b>25.4</b>	<15	<b>8.92</b>	5	0.5
Ethylbenzene	<b>213</b>	<b>848</b>	<b>1,120</b>	<b>1,270</b>	<b>1,090</b>	67.3	700	140
Isopropylbenzene	6	---	---	---	---	---	---	---
MTBE	6	< 15	< 30	< 25	<25	< 10	60	12
Naphthalene	<b>80</b>	---	---	<b>226</b>	<b>234</b>	<b>56.5</b>	100	10
Toluene	97	<b>891</b>	<b>1,820</b>	<b>2,380</b>	<b>3,140</b>	<b>703</b>	1,000	200
1,2,4- & 1,3,5-TMB	<b>253</b>	<b>749</b>	<b>944</b>	<b>1,473</b>	<b>860</b>	<b>530</b>	480	96
Total Xylenes	503	<b>2,215</b>	<b>2,739</b>	<b>3,960</b>	<b>3,600</b>	<b>1,054</b>	10,000	1,000

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MTBE = methyl-tert-butylether

TMB = trimethylbenzene

DCA = dichloroethane

**Bold italic** numbers indicate concentrations above the ES outlined in NR 140.10.

**Bold** numbers indicate concentrations above the PAL outlined in NR 140.10.

Well Depth (feet): 35  
 TOC Elevation (feet): 715.12  
 Date Installed: 30-Aug-07  
 Screen Length (feet): 5

**TABLE 1 (page 7 of 12)**  
**ANALYTICAL RESULTS - GROUNDWATER**  
**KONOP PROPERTY SITE, COLEMAN, WISCONSIN**

	MW-8									NR 140 Remedial Action Limits	
Date	Apr-99	Mar-00	Sep-00	Oct-06	Aug-07	Nov-07	Apr-08	May-10	Oct-10		
Relative Elevation (ft)	---	Dry	Dry	705.23	Dry	Dry	710.95	Dry	707.98		
<b>ANALYTE</b>										<i>ES</i>	<i>PAL</i>
<b>VOCs/PVOCs (ppb)</b>											
Benzene	< 0.2	---	---	< 0.2	---	---	< 0.3	---	<0.2	5	0.5
Ethylbenzene	< 0.3	---	---	< 0.3	---	---	< 0.5	---	<0.2	<b>700</b>	<b>140</b>
MTBE	< 0.3	---	---	< 0.3	---	---	< 0.3	---	<0.5	60	12
Toluene	< 0.4	---	---	< 0.4	---	---	< 0.3	---	<0.4	1,000	200
1,2,4- & 1,3,5-TMB	< 0.7	---	---	< 0.7	---	---	< 0.4	---	<0.4	480	96
Total Xylenes	2	---	---	< 2	---	---	< 0.6	---	<0.4	<b>10,000</b>	<b>1,000</b>

ND = Not Detected

--- = not analyzed or no standard

MTBE = methyl-tert-butylether

TMB = trimethylbenzene

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**Bold** numbers indicate concentrations above the PAL outlined in NR 140.10.

Well Depth (feet): 9  
 TOC Elevation (feet): 713.86  
 Date Installed: 1-Dec-98  
 Screen Length (feet): 5

**TABLE 1 (page 8 of 12)**  
**ANALYTICAL RESULTS - GROUNDWATER**  
**KONOP PROPERTY SITE, COLEMAN, WISCONSIN**

PZ-2																NR 140 Remedial Action Limits	
Date	Dec-99	Mar-00	Sep-00	Jul-01	Jun-02	Sep-02	Jan-03	May-03	Nov-03	Oct-06	Aug-07	Nov-07	Apr-08	May-10	Oct-10		
Relative Elevation (ft)	---	---	---	---	---	---	---	---	---	705.70	701.39	702.76	706.71	704.22	706.95		
<b>ANALYTE</b>																	
Lead (ppb)	---	---	---	---	---	---	---	---	---	---	---	---	---	< 0.6	---	15	1.5
<b>VOCs/PVOCs (ppb)</b>																	
Benzene	<b>34</b>	<b>300</b>	<b>2,200</b>	<b>350</b>	<b>210</b>	<b>450</b>	<b>450</b>	<b>46</b>	<b>460</b>	<b>100</b>	<b>9</b>	<b>133</b>	<b>39.6</b>	<b>235</b>	<b>377</b>	5	0.5
1,2-DCA	---	---	---	---	---	---	---	---	---	---	---	---	---	<b>6.01</b>	<0.3	5	0.5
Ethylbenzene	< 0.3	11	<b>330</b>	62	39	120	<b>240</b>	1	<b>250</b>	<b>170</b>	24	<b>449</b>	26.6	<b>240</b>	<b>142</b>	700	140
MTBE	0.7	< 3	< 5	< 6	< 5	3	< 1	6	<b>16</b>	1.5	2	< 6	< 0.3	< 5	<5	60	12
Naphthalene	---	---	---	---	---	---	---	---	---	---	---	---	---	<b>25.4</b>	<b>36.6</b>	100	10
Toluene	4	28	<b>1,400</b>	<b>440</b>	37	37	11	4	54	82	14	<b>569</b>	42.5	45.5	51.3	1,000	200
1,2,4- & 1,3,5-TMB	2	6	<b>277</b>	93	60	28	5	< 0.7	<b>120</b>	<b>213</b>	13	<b>515</b>	<b>163.57</b>	<b>132</b>	71	480	96
Total Xylenes	19	42	<b>1,200</b>	390	62	35	9	3	53	319	58	<b>1,211</b>	214.6	149.5	100	10,000	1,000

ND = Not Detected

--- = not analyzed or no standard

MTBE = methyl-tert-butylether

TMB = trimethylbenzene

DCA = dichloroethane

**Bold italic** numbers indicate concentrations above the ES outlined in NR 140.10.

**Bold** numbers indicate concentrations above the PAL outlined in NR 140.10.

Well Depth (feet): 25  
 TOC Elevation (feet): 713.92  
 Date Installed: 1-Nov-99  
 Screen Length (feet): 5

**TABLE 1 (page 9 of 12)**  
**ANALYTICAL RESULTS - GROUNDWATER**  
**KONOP PROPERTY SITE, COLEMAN, WISCONSIN**

	MW-11					<i>NR 140 Remedial Action Limits</i>	
Date	Aug-07	Nov-07	Apr-08	May-10	Oct-10		
Relative Elevation (ft)	Dry	703.58	710.28	705.13	706.58		
<u>ANALYTE</u>						<i>ES</i>	<i>PAL</i>
Lead (ppb)	---	---	---	< 0.6	---	<b>100</b>	<b>10</b>
VOCs/PVOCs (ppb)							
Benzene	---	< 0.2	< 0.3	< 0.2	< 0.2	<b>5</b>	<b>0.5</b>
1,2-DCA	---	---	---	< 0.2	< 0.3	<b>100</b>	<b>10</b>
Ethylbenzene	---	< 0.1	< 0.5	< 0.2	< 0.2	<b>700</b>	<b>140</b>
MTBE	---	< 0.2	< 0.3	< 0.5	< 0.5	<b>60</b>	<b>12</b>
Naphthalene	---	< 1	---	< 1	< 1	<b>100</b>	<b>10</b>
Toluene	---	< 0.4	< 0.3	< 0.4	< 0.4	<b>1,000</b>	<b>200</b>
1,2,4- & 1,3,5-TMB	---	< 0.4	< 0.4	< 0.2	< 0.2	<b>480</b>	<b>96</b>
Total Xylenes	---	< 0.6	< 0.6	< 0.4	< 0.4	<b>10,000</b>	<b>1,000</b>

ND = Not Detected

--- = not analyzed or no standard

MTBE = methyl-tert-butylether

TMB = trimethylbenzene

DCA = dichloroethane

***Bold italic*** numbers indicate concentrations above the ES outlined in NR 140.10.

**Bold** numbers indicate concentrations above the PAL outlined in NR 140.10.

Well Depth (feet): 13

TOC Elevation (feet): 714.93

Date Installed: 30-Aug-07

Screen Length (feet): 10

TABLE 1 (page 10 of 12)							
ANALYTICAL RESULTS - GROUNDWATER							
KONOP PROPERTY SITE, COLEMAN, WISCONSIN							
	PZ-6					NR 140 Remedial Action Limits	
Date	Aug-07	Nov-07	Apr-08	May-10	Oct-10		
Relative Elevation (ft)		702.85	707.97	706.03	706.95		
ANALYTE						ES	PAL
Lead (ppb)	---	---	---	<b>2</b>	---	15	1.5
VOCs/PVOCs (ppb)							
Benzene	<b>247</b>	<b>42</b>	<b>3.84</b>	< 0.2	<0.2	5	0.5
1,2-DCA	<b>6</b>	---	---	< 0.2	<0.3	5	0.5
1,1-Dichloropropylene	7	---	---	---	---	---	---
Ethylbenzene	<b>142</b>	<b>236</b>	0.734	< 0.2	<0.2	700	140
Isopropylbenzene	21	---	---	---	---	---	---
MTBE	< 2	< 6	< 0.3	< 0.5	<0.5	60	12
Naphthalene	<b>45</b>	---	---	< 1	<1	100	10
Toluene	98	59	1.06	< 0.4	<0.4	1,000	200
1,2,4- & 1,3,5-TMB	<b>725</b>	<b>782</b>	5.48	0.45	<0.2	480	96
Total Xylenes	481	<b>1,012</b>	5.69	< 0.4	<0.4	10,000	1,000

ND = Not Detected

--- = not analyzed or no standard

MTBE = methyl-tert-butylether

TMB = trimethylbenzene

DCA = dichloroethane

**Bold italic** numbers indicate concentrations above the ES outlined in NR 140.10.

**Bold** numbers indicate concentrations above the PAL outlined in NR 140.10.

Well Depth (feet): 30  
 TOC Elevation (feet): 715.03  
 Date Installed: 30-Aug-07  
 Screen Length (feet): 5

**TABLE 1 (page 11 of 12)**  
**ANALYTICAL RESULTS - GROUNDWATER**  
**KONOP PROPERTY SITE, COLEMAN, WISCONSIN**

	MW-12			<i>NR 140 Remedial Action Limits</i>	
Date	May-10	Oct-10	Dec-10		
Relative Elevation (ft)	703.83	707.91	705.15		
<u>ANALYTE</u>				<i>ES</i>	<i>PAL</i>
Lead (ppb)	1.33	1	---	15	1.5
VOCs/PVOCs (ppb)					
Benzene	< 2	<0.2	< 0.2	5	0.5
1,2-DCA	< 3	<0.3	< 0.3	100	10
Ethylbenzene	58.1	<0.2	< 0.2	700	140
MTBE	< 5	<0.5	< 0.5	60	12
Naphthalene	<b>28.6</b>	<1	< 1	100	10
Toluene	12.9	<0.4	< 0.4	1,000	200
1,2,4- & 1,3,5-TMB	<b>505</b>	4	< 0.2	480	96
Total Xylenes	188.8	1.39	< 0.4	10,000	1,000

ND = Not Detected

--- = not analyzed or no standard

MTBE = methyl-tert-butylether

TMB = trimethylbenzene

DCA = dichloroethane

Well Depth (feet): 18

TOC Elevation (feet): 716.13

Date Installed: 18-May-10

Screen Length (feet): 10

***Bold italic*** numbers indicate concentrations above the ES outlined in NR 140.10.

**Bold** numbers indicate concentrations above the PAL outlined in NR 140.10.



**TABLE 1 (page 12 of 12)**  
**ANALYTICAL RESULTS - GROUNDWATER**  
**KONOP PROPERTY SITE, COLEMAN, WISCONSIN**

	PZ-7			NR 140 Remedial Action Limits	
	May-10	Oct-10	Dec-10		
Date	May-10	Oct-10	Dec-10		
Relative Elevation (ft)	703.07	705.57	703.27		
<u>ANALYTE</u>				<i>ES</i>	<i>PAL</i>
Lead (ppb)	< 0.6	---	---	15	1.5
VOCs/PVOCs (ppb)					
Benzene	<b>0.56</b>	<0.2	< 0.2	5	0.5
1,2-DCA	< 0.3	<0.3	< 0.3	100	10
Ethylbenzene	2.22	<0.2	< 0.2	700	140
MTBE	< 0.5	<0.5	< 0.5	60	12
Naphthalene	1.53	<1	< 1	100	10
Toluene	1.16	<0.4	< 0.4	1,000	200
1,2,4- & 1,3,5-TMB	20	<0.2	< 0.2	480	96
Total Xylenes	13.3	<0.4	< 0.4	10,000	1,000

ND = Not Detected

--- = not analyzed or no standard

MTBE = methyl-tert-butylether

TMB = trimethylbenzene

DCA = dichloroethane

Well Depth (feet): 32

TOC Elevation (feet): 716.07

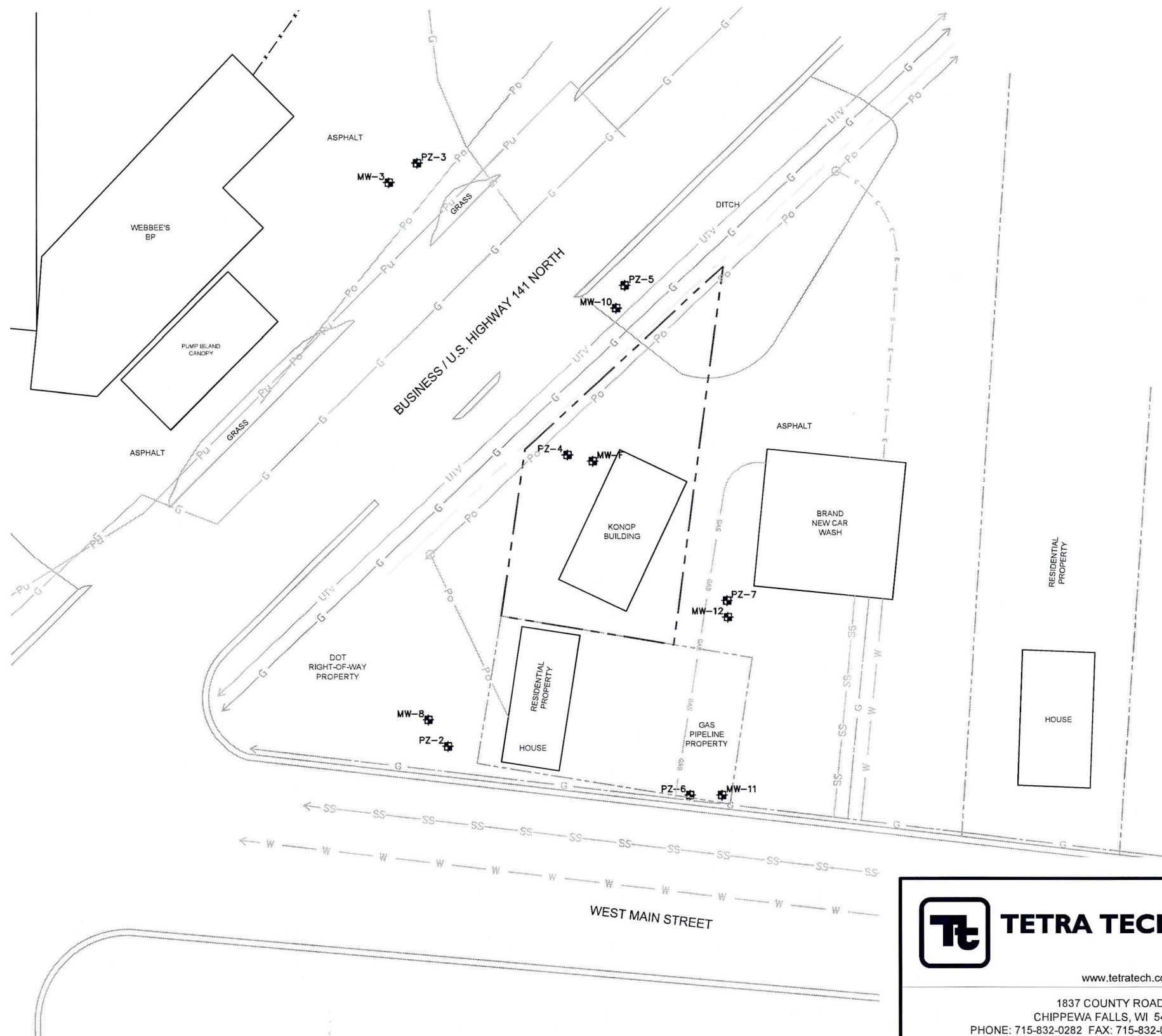
Date Installed: 18-May-10

Screen Length (feet): 5

***Bold italic*** numbers indicate concentrations above the ES outlined in NR 140.10.

**Bold** numbers indicate concentrations above the PAL outlined in NR 140.10.

Wednesday, January 12, 2011 8:42:43 AM DRAWING: C:\PROJECT FROM COMMON BACKUP\114-330854 Konop\B1.DWG LAYOUT: FIG 2 SITE USER NAME: ENGEN, LORI

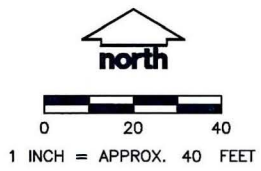



**LEGEND**

- W — WATERMAIN
- S — SANITARY SEWER
- - - - - APPROXIMATE PROPERTY BOUNDARY
- x - x - FENCE LINE
- G — NATURAL GAS LINE
- Po — OVERHEAD POWER LINE
- Pu — UNDERGROUND POWER LINE
- - - - - RIGHT-OF-WAY LINE
- MW-5 MONITORING WELL
- PZ-5 PIEZOMETER

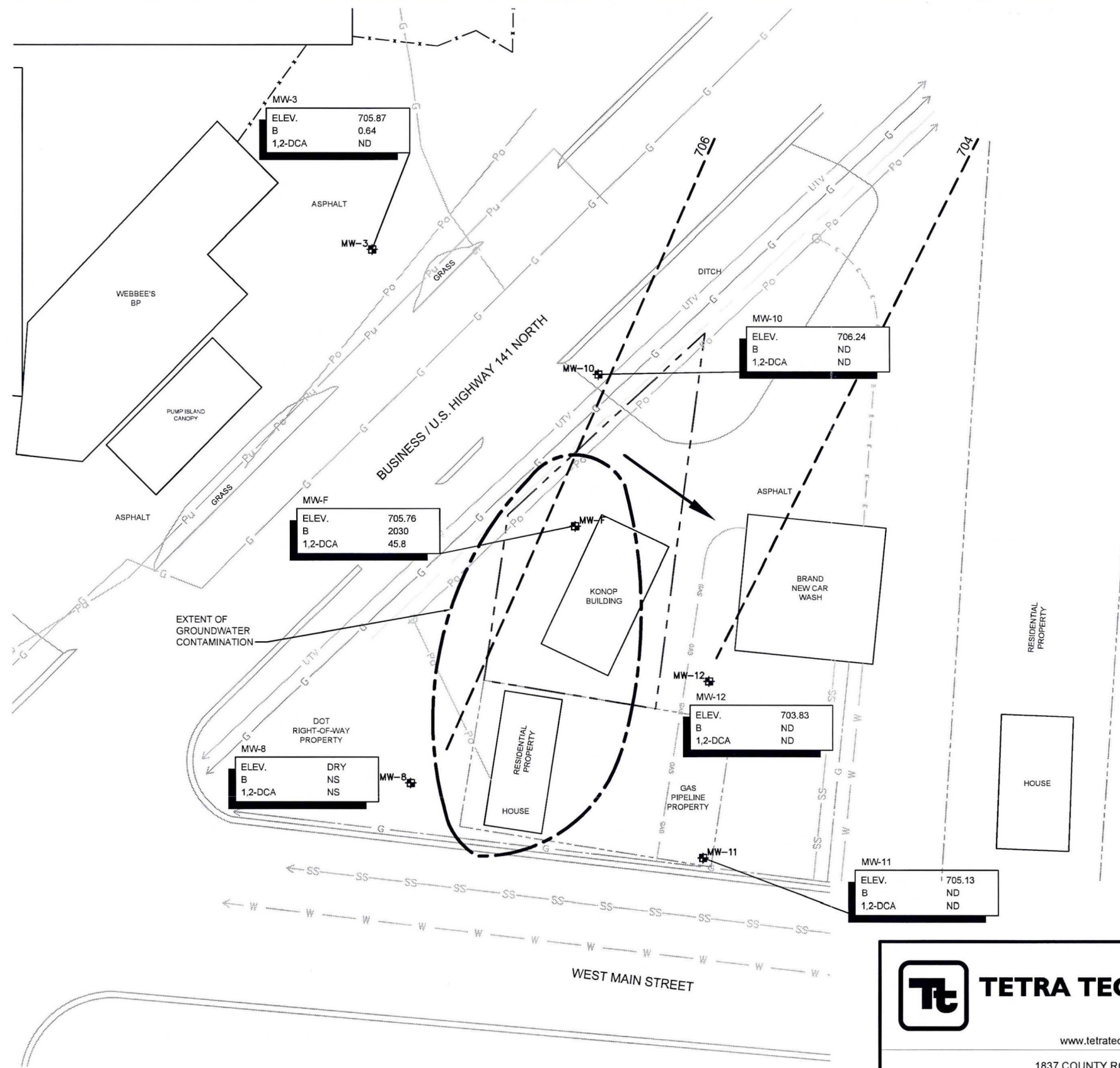
**NOTES**

1. BASE MAP DEVELOPED FROM A DRAWING BY NRP ENVIRONMENTAL CONSULTANTS, TITLED "GROUNDWATER FLOW: MONITORING WELLS MAY 23, 2006," DATED MAY 2006.



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	FIGURE 2	

Wednesday, January 12, 2011 9:44:49 AM DRAWING: C:\PROJECT FROM COMMON BACKUP\114-330854\_Konop\B1.DWG LAYOUT: FIG 3 MW USER NAME: ENGEN, LORI

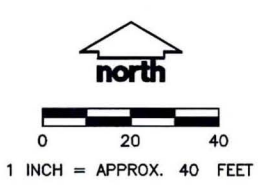


**LEGEND**

- W — WATERMAIN
- S — SANITARY SEWER
- - - - - APPROXIMATE PROPERTY BOUNDARY
- x - x - FENCE LINE
- G — G — NATURAL GAS LINE
- P<sub>O</sub> — P<sub>O</sub> — OVERHEAD POWER LINE
- P<sub>U</sub> — P<sub>U</sub> — UNDERGROUND POWER LINE
- - - - - RIGHT-OF-WAY LINE
- ⊕ MW-1 MONITORING WELL
- ⊕ PZ-1 PIEZOMETER
- 698 - - - - - GROUNDWATER CONTOUR
- 713.30 GROUNDWATER ELEVATION
- GROUNDWATER FLOW
- 1.7 BENZENE, in parts per billion
- DCA DICHLOROETHANE
- ND NOT DETECTED
- NS NO SAMPLE
- - - - - EXTENT OF GROUNDWATER CONTAMINATION

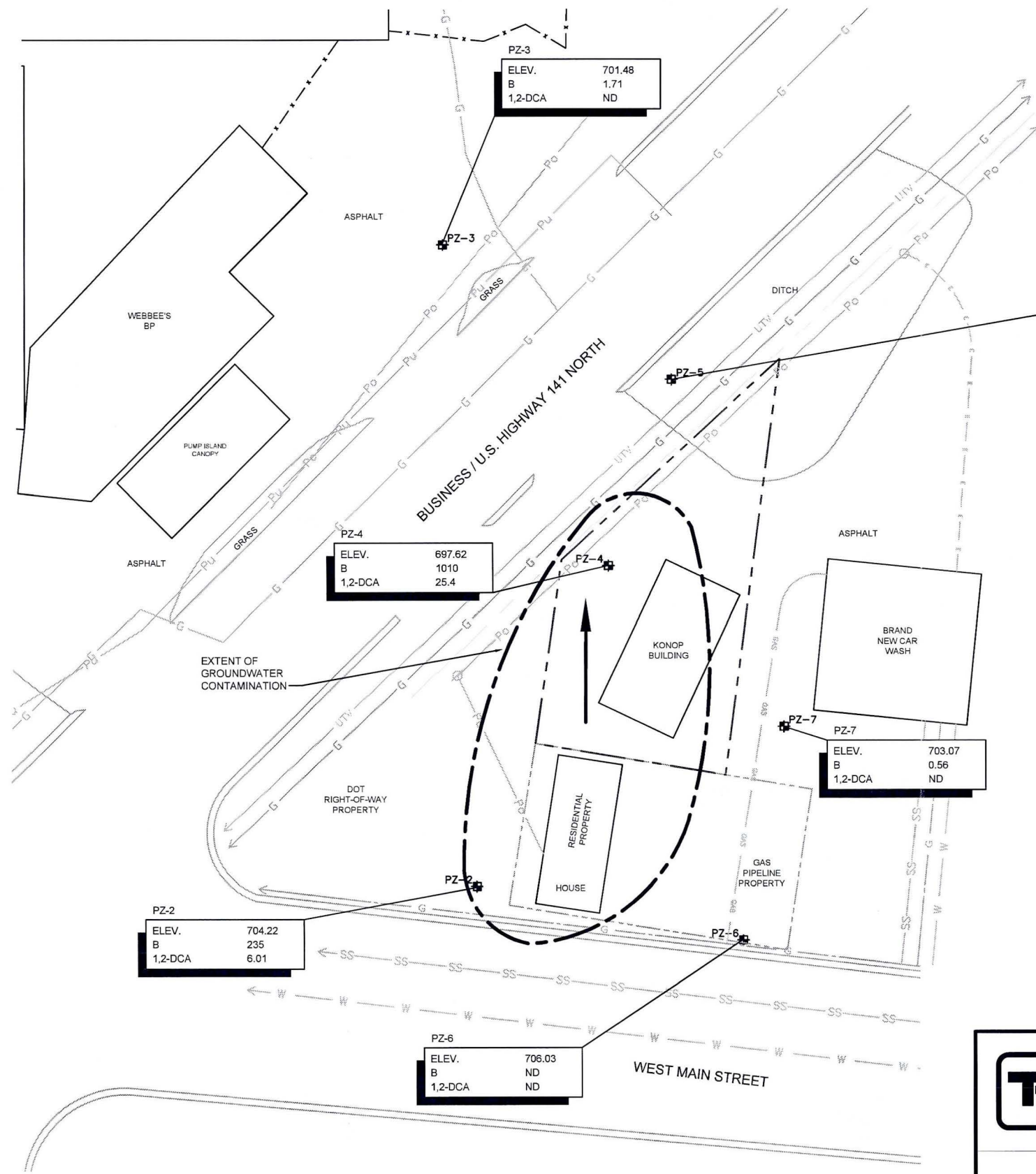
**NOTES**

1. BASE MAP DEVELOPED FROM A DRAWING BY NRP ENVIRONMENTAL CONSULTANTS, TITLED "GROUNDWATER FLOW: MONITORING WELLS MAY 23, 2006," DATED MAY 2006.



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		Date: 08-06-10
		Designed By: MN
		FIGURE 3

Wednesday, January 12, 2011 1:00:02 PM DRAWING: C:\PROJECT FROM COMMON BACKUP\114-330854 Konop\B1.DWG LAYOUT: FIG 4 PZ USER NAME: ENGEN, LORI

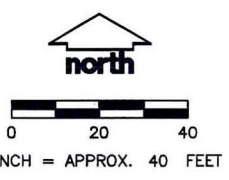



**LEGEND**

- W — WATERMAIN
- S — SANITARY SEWER
- - - - - APPROXIMATE PROPERTY BOUNDARY
- x - x - FENCE LINE
- G - G - NATURAL GAS LINE
- P<sub>o</sub> - P<sub>o</sub> - OVERHEAD POWER LINE
- P<sub>u</sub> - P<sub>u</sub> - UNDERGROUND POWER LINE
- - - - - RIGHT-OF-WAY LINE
- ⊕ MW-1 MONITORING WELL
- ⊕ PZ-1 PIEZOMETER
- 713.30 GROUNDWATER ELEVATION
- GROUNDWATER FLOW
- 1.7 BENZENE, in parts per billion
- DCA DICHLOROETHANE
- ND NOT DETECTED
- NS NO SAMPLE
- - - - - EXTENT OF GROUNDWATER CONTAMINATION

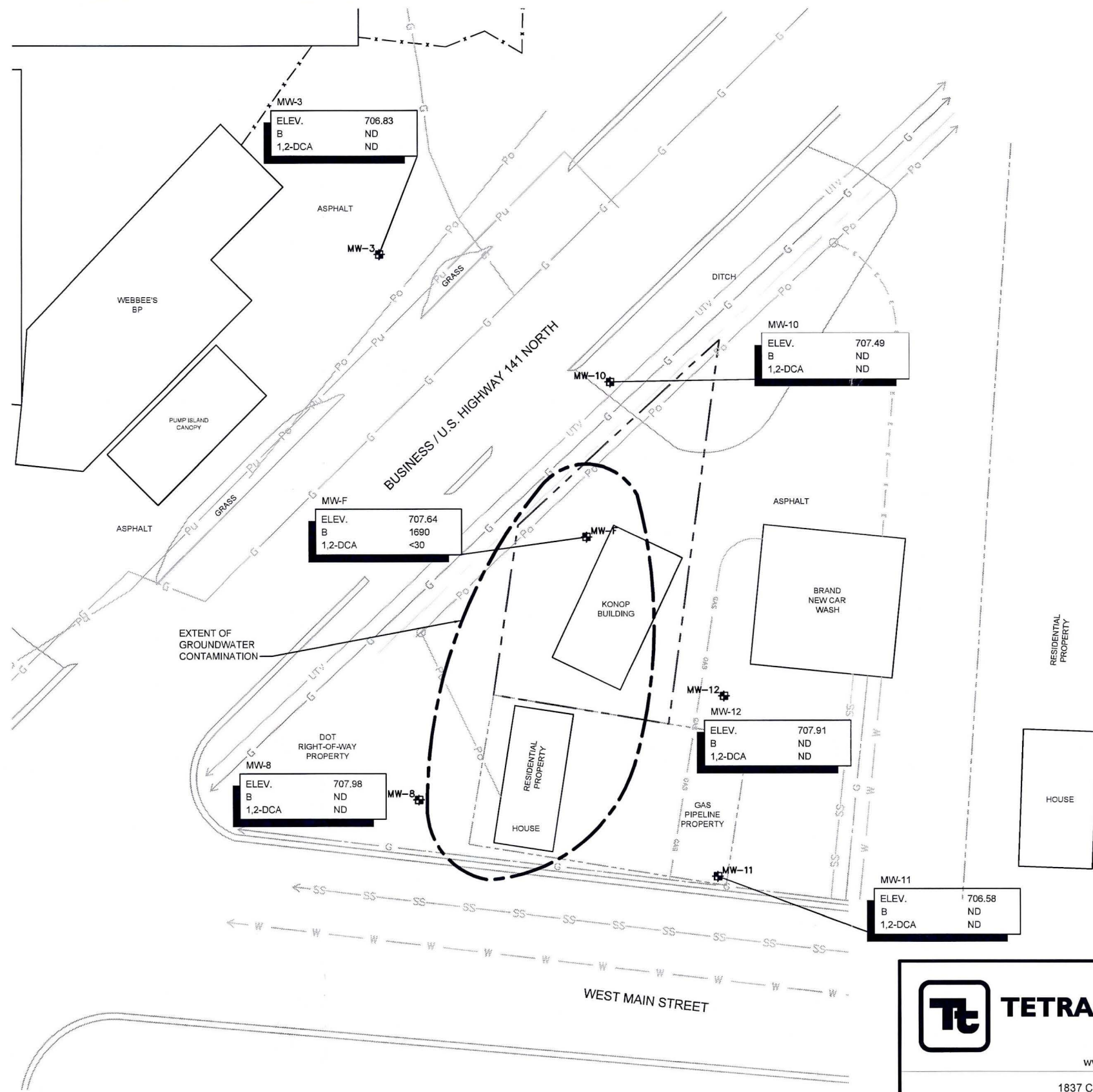
**NOTES**

1. BASE MAP DEVELOPED FROM A DRAWING BY NRP ENVIRONMENTAL CONSULTANTS, TITLED "GROUNDWATER FLOW: MONITORING WELLS MAY 23, 2006," DATED MAY 2006.



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	FIGURE 4	

Wednesday, January 12, 2011 1:00:46 PM DRAWING: C:\PROJECT FROM COMMON BACKUP\114-330854\_Konop\B1.DWG LAYOUT: FIG 5 MW USER NAME: ENGEN, LORI

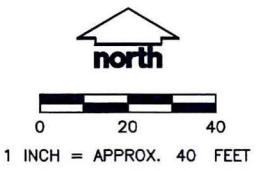


**LEGEND**

- W — W — WATERMAIN
- S — S — SANITARY SEWER
- - - - - APPROXIMATE PROPERTY BOUNDARY
- x - x - FENCE LINE
- G - G - NATURAL GAS LINE
- P<sub>o</sub> - P<sub>o</sub> - OVERHEAD POWER LINE
- P<sub>u</sub> - P<sub>u</sub> - UNDERGROUND POWER LINE
- - - - - RIGHT-OF-WAY LINE
- ⊕ MW-1 MONITORING WELL
- ⊕ PZ-1 PIEZOMETER
- 713.30 GROUNDWATER ELEVATION
- 1.7 BENZENE, in parts per billion
- DCA DICHLOROETHANE
- ND NOT DETECTED
- NS NO SAMPLE
- - - - - EXTENT OF GROUNDWATER CONTAMINATION

**NOTES**

1. BASE MAP DEVELOPED FROM A DRAWING BY NRP ENVIRONMENTAL CONSULTANTS, TITLED "GROUNDWATER FLOW: MONITORING WELLS MAY 23, 2006," DATED MAY 2006.



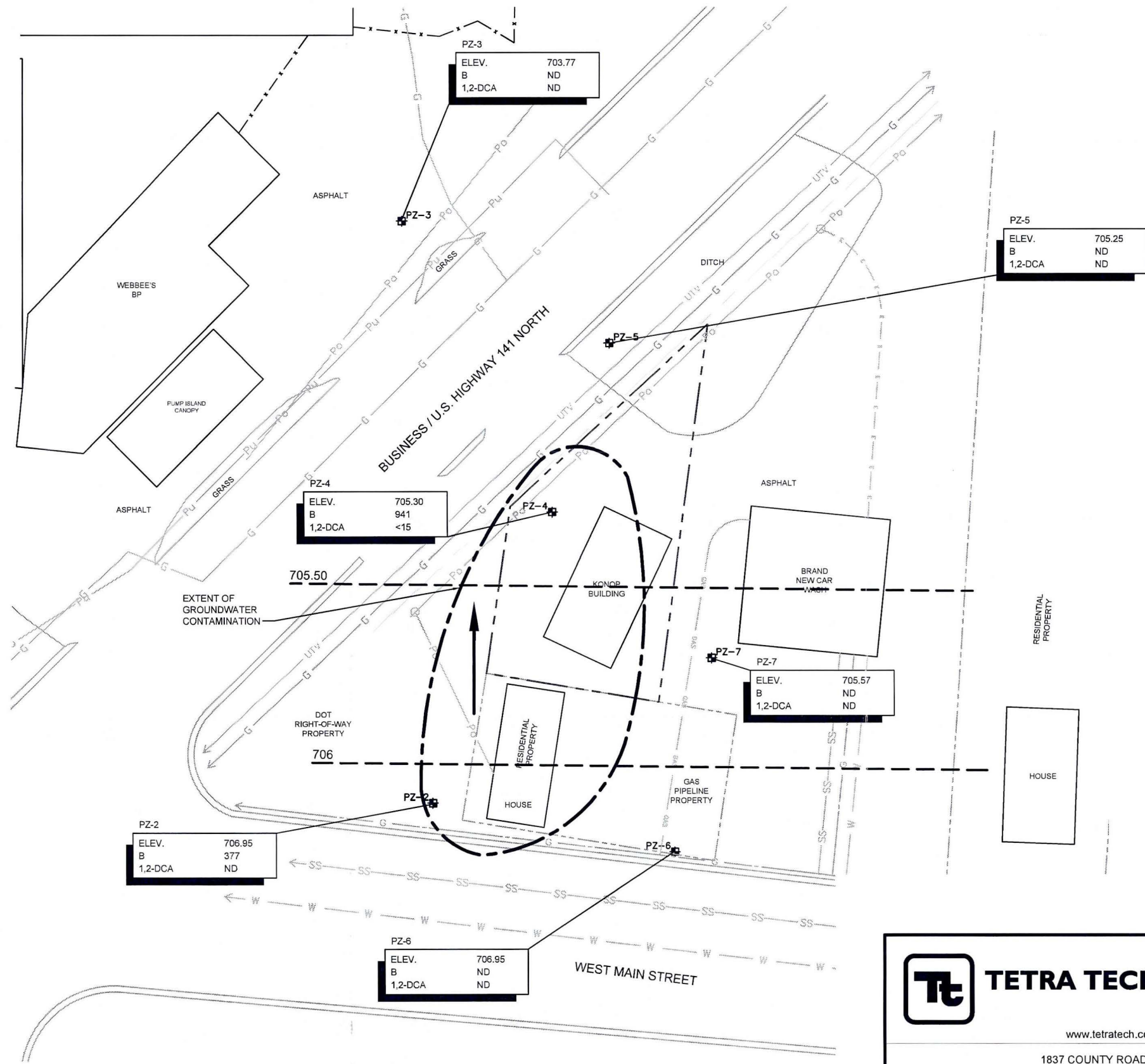
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Drawing Description  
**GROUNDWATER DATA  
 OCTOBER 2010  
 MONITORING WELLS**  
 KONOP PROPERTY  
 COLEMAN, WISCONSIN

Project No.:	114-330854
Date:	01-11-11
Designed By:	LE

FIGURE 5

Wednesday, January 12, 2011 1:01:16 PM DRAWING: C:\PROJECT FROM COMMON BACKUP\114-330854\_KonopB1.DWG LAYOUT: FIG 6 PZ USER NAME: ENGEN, LORI

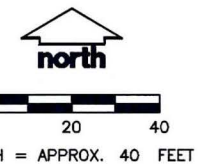


**LEGEND**

- W — WATERMAIN
- S — SANITARY SEWER
- - - - - APPROXIMATE PROPERTY BOUNDARY
- x - x - FENCE LINE
- G - G - NATURAL GAS LINE
- P<sub>o</sub> - P<sub>o</sub> - OVERHEAD POWER LINE
- P<sub>u</sub> - P<sub>u</sub> - UNDERGROUND POWER LINE
- - - - - RIGHT-OF-WAY LINE
- ⊕ MW-1 MONITORING WELL
- ⊕ PZ-1 PIEZOMETER
- 698 - - - - - GROUNDWATER CONTOUR
- 713.30 - - - - - GROUNDWATER ELEVATION
- GROUNDWATER FLOW
- 1.7 BENZENE, in parts per billion
- DCA DICHLOROETHANE
- ND NOT DETECTED
- NS NO SAMPLE
- - - - - EXTENT OF GROUNDWATER CONTAMINATION

**NOTES**

1. BASE MAP DEVELOPED FROM A DRAWING BY NRP ENVIRONMENTAL CONSULTANTS, TITLED "GROUNDWATER FLOW: MONITORING WELLS MAY 23, 2006," DATED MAY 2006.

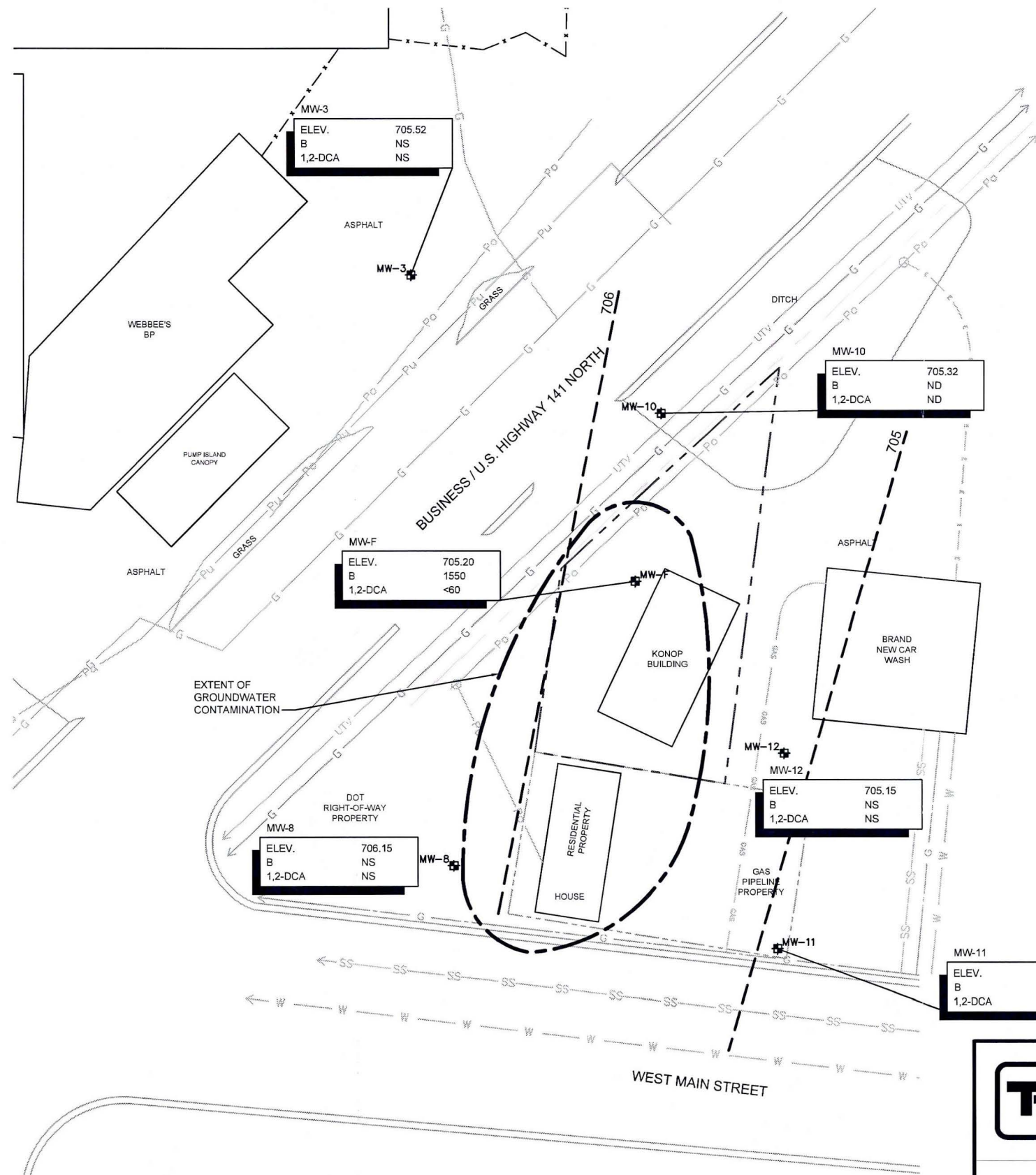


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 PHONE: 715-832-0282 FAX: 715-832-0541

Drawing Description  
**GROUNDWATER DATA**  
**OCTOBER 2010**  
**PIEZOMETER**  
 KONOP PROPERTY  
 COLEMAN, WISCONSIN

Project No.:	114-330854
Date:	01-11-11
Designed By:	LE
FIGURE 6	

Wednesday, January 12, 2011 1:01:43 PM DRAWING: C:\PROJECT FROM COMMON BACKUP\114-330854 Konop\B1.DWG LAYOUT: FIG 7 MW USER NAME: ENGEN, LORI

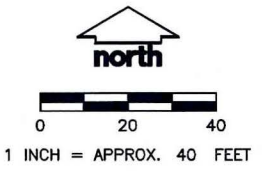


**LEGEND**

- WATERMAIN
- SANITARY SEWER
- APPROXIMATE PROPERTY BOUNDARY
- FENCE LINE
- NATURAL GAS LINE
- OVERHEAD POWER LINE
- UNDERGROUND POWER LINE
- RIGHT-OF-WAY LINE
- MONITORING WELL
- PIEZOMETER
- GROUNDWATER CONTOUR 698
- GROUNDWATER ELEVATION 713.30
- GROUNDWATER FLOW
- 1.7 BENZENE, in parts per billion
- DCA DICHLOROETHANE
- ND NOT DETECTED
- NS NO SAMPLE
- EXTENT OF GROUNDWATER CONTAMINATION

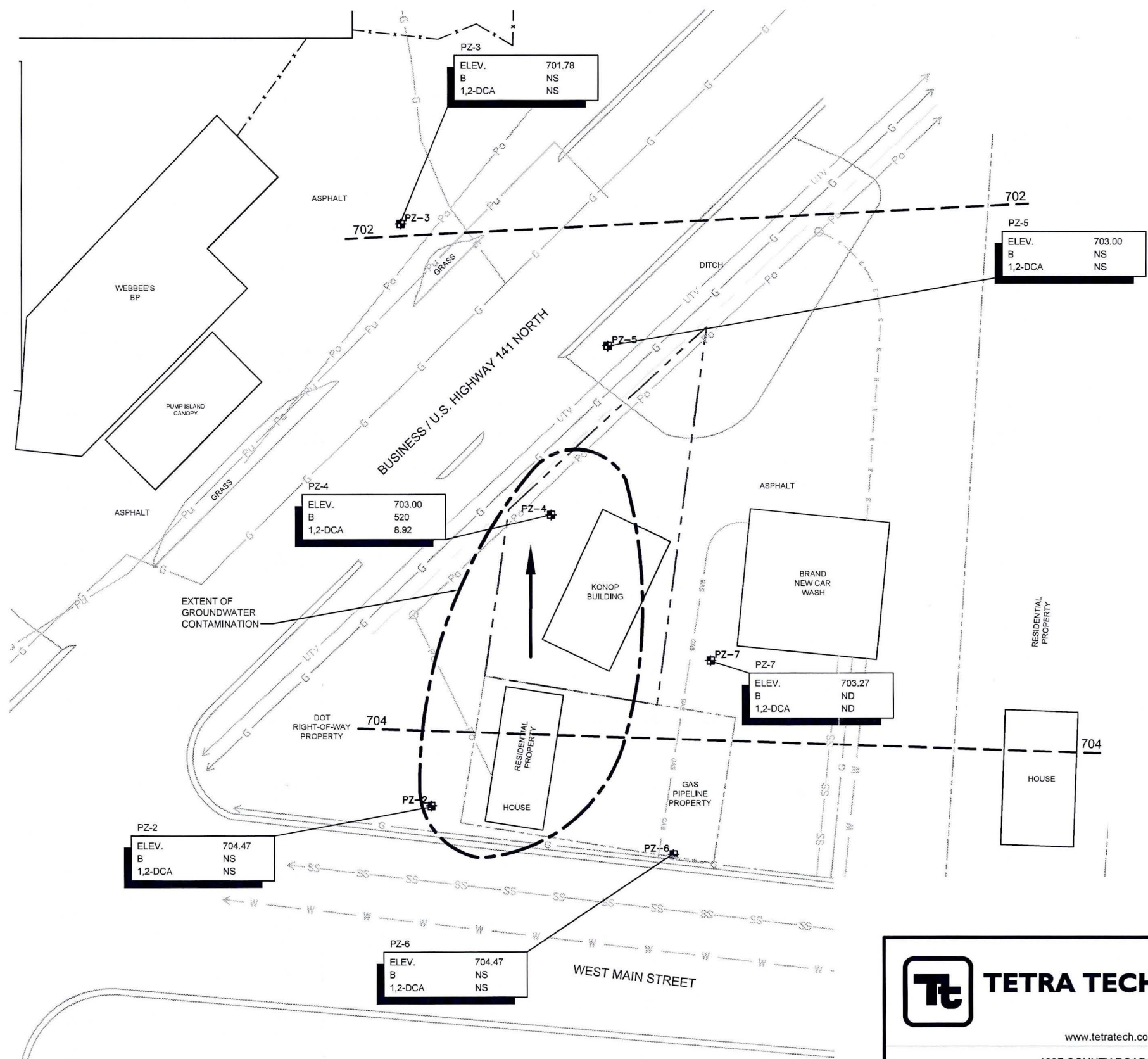
**NOTES**

1. BASE MAP DEVELOPED FROM A DRAWING BY NRP ENVIRONMENTAL CONSULTANTS, TITLED "GROUNDWATER FLOW: MONITORING WELLS MAY 23, 2006," DATED MAY 2006.



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		Date: 01-11-11
		Designed By: LE
		FIGURE 7

Wednesday, January 12, 2011 1:02:06 PM DRAWING: C:\PROJECT FROM COMMON BACKUP\114-330854\_Konop\B1.DWG LAYOUT: FIG 8 PZ USER NAME: ENGEN, LORI

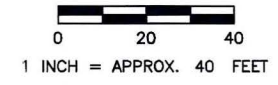


**LEGEND**

- W ——— WATERMAIN
- S ——— SANITARY SEWER
- - - - - APPROXIMATE PROPERTY BOUNDARY
- x - x - FENCE LINE
- G ——— NATURAL GAS LINE
- P<sub>o</sub> ——— OVERHEAD POWER LINE
- P<sub>u</sub> ——— UNDERGROUND POWER LINE
- - - - - RIGHT-OF-WAY LINE
- ⊕ MW-1 MONITORING WELL
- ⊕ PZ-1 PIEZOMETER
- 698 ——— GROUNDWATER CONTOUR
- 713.30 GROUNDWATER ELEVATION
- GROUNDWATER FLOW
- 1.7 BENZENE, in parts per billion
- DCA DICHLOROETHANE
- ND NOT DETECTED
- NS NO SAMPLE
- - - - - EXTENT OF GROUNDWATER CONTAMINATION

**NOTES**

1. BASE MAP DEVELOPED FROM A DRAWING BY NRP ENVIRONMENTAL CONSULTANTS, TITLED "GROUNDWATER FLOW: MONITORING WELLS MAY 23, 2006," DATED MAY 2006.



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PHONE: 715-832-0282 FAX: 715-832-0541

Drawing Description  
**GROUNDWATER DATA  
DECEMBER 2010  
PIEZOMETER**  
KONOP PROPERTY  
COLEMAN, WISCONSIN

Project No.: 114-330854  
Date: 01-11-11  
Designed By: LE

FIGURE 8



**Appendix A**  
**Standard Sampling Procedures and Documentation**

## STANDARD SAMPLING AND FIELD SCREENING PROCEDURES

### Soil Sampling Procedures

Soil samples were also collected with a truck-mounted rotary drill equipped with hollow stem augers and a 2-inch-diameter, 24-inch-long split spoon sampler. The split spoon was advanced at 2-foot intervals by conventional methods, including the attachment of the sampler to an AW rod and standard 140-pound hammer. The soil was split into two samples for field screening and laboratory analysis.

All drilling tools and equipment were steam cleaned prior to sampling. Sampling tools were washed with an Alconox™ and water solution between sampling points to prevent cross contamination.

### Field Screening Procedures

We field screened samples with a PID using the headspace procedure. We also recorded instrument readings and sample descriptions and remarks on a soil profile log at the appropriate depth intervals. Results from this screening survey were used to select samples for laboratory analysis. We checked PID calibration daily with isobutylene gas at recommended time intervals according to WDNR guidelines. We conducted the headspace procedure as follows:

- Headspace samples were collected in clean glass jars and filled half-full with the sample material.
- The mouth of the headspace jar was then covered with heavy-gauge aluminum foil and sealed with the lid of the jar.
- The sample was then agitated to break soil clods and release headspace vapors.
- When ambient air temperatures were below 70°F, we placed the headspace samples in a warm environment out of direct sunlight and allowed them to equilibrate to about 70°F. When ambient air temperatures were above 70°F, we placed the samples in a cooler environment out of direct sunlight and allowed them to equilibrate to about 70°F.
- Following equilibration, the sample headspace was analyzed by inserting the PID probe through a single, small hole in the foil seal to a position halfway between the seal and sample surface and then recording the highest instrument readings.
- New headspace jars were used for each site. After use, the headspace jars were cleaned with an Alconox™ and water solution and allowed to dry. If no VOC carryover was identified with a PID, the jars were reused; if VOC carryover was identified, the sample jars were discarded.

Laboratory Analysis

Split soil samples were put into the appropriate containers as follows:

<b>ANALYTE</b>	<b>CONTAINER TYPE</b>	<b>FIELD PRESERVATIVE</b>
GRO	2-oz. TLC jar	Methanol
DRO	2-oz. TLC jar	None
PVOC/VOC	2-oz. TLC jar	Methanol
PAH	2-oz. TLC jar	None
TOTAL LEAD	4-oz. TLC jar	None

TLC = Teflon-lined cap

Samples were then sealed and cooled to 4°C for transport to the laboratory. All samples were labeled with the following information:

- Site name
- Sample number
- Sample location
- Date and time of collection
- Analysis requested
- Name of sampler
- Other applicable information

Groundwater Monitoring Well Installation and Development Procedures

Monitoring wells were constructed and developed in accordance with Wisconsin Administrative Code - Chapter NR 141 requirements.

Groundwater Sampling Procedures

We collected groundwater samples from the permanent monitoring wells through 2-inch-diameter 0.010-inch slotted polyvinyl chloride (PVC) well casing. Temporary well samples were collected through 1-inch-diameter PVC well casing. We purged each groundwater monitoring well of three well volumes or sufficient water to achieve a sediment-free sample. A clean disposable polyethylene bailer was then inserted down the PVC piping and the contents of the bailer were transferred to the appropriate containers as follows:

<b>ANALYTE</b>	<b>CONTAINER TYPE</b>	<b>FIELD PRESERVATIVE</b>
GRO	40-ml vial	Hydrochloric acid
DRO	1-liter amber bottle	Hydrochloric acid
PVOC/VOC	40-ml vial	Hydrochloric acid
PAH	1-liter amber bottle	None
SULFATES	500-ml plastic bottle	None
NITRATES	500-ml plastic bottle	Sulfuric Acid
SOLUBLE IRON	250-ml plastic bottle	Nitric acid
LEAD	250-ml plastic bottle	Nitric acid

Care was taken to ensure that no air space was included. The water sample containers were then sealed and cooled to 4°C for transport to the laboratory. All collected samples were labeled with the following information:

- Site name
- Sample number
- Sample location
- Date and time of collection
- Analysis requested
- Name of sampler
- Other applicable information

#### Chain of Custody Procedures

Tetra Tech completed a chain of custody record in triplicate for the samples transported to the laboratory. When transferring sample custody, the individuals relinquishing and receiving the samples signed, dated, and noted the time on the chain of custody record. A designated sample custodian accepted custody of the shipped samples and verified that the sample identification numbers matched those on the chain of custody record. The laboratory then retained a copy of the chain of custody record until analyses were completed. The record was then transferred to Tetra Tech and is maintained in the project file with the analytical results.

#### Procedures for Abandoning a Borehole

After all necessary soil samples were collected, the borehole was completely backfilled with bentonite and abandoned according to procedures outlined in Chapter NR 141.25 of the Wisconsin Administrative Code. A WDNR borehole abandonment form (Form 3300-5W) was completed for each soil boring not completed as a monitoring well.

### Free Product Removal Procedures

We conducted free product removal procedure as follows:

- Remove well cover and scrape away excess dirt.
- Carefully remove test well plug, bailer, & sock from well casing. Remember that bailer and absorbent socks are tied to the plug.
- Set bailer aside and squeeze product from sock into bucket. After squeezing out sock set aside to dry.
- Measure depth to water/product with a product/groundwater interface probe. Record depth to product, groundwater, and thickness of product in feet.
- Secure bailer to rope or string and insert into well casing. Lower the bailer until contact with water table is made. Allow bailer to drop into the water for no more than one foot. Remove bailer and estimate product thickness. Empty contents of bailer into bucket and record product thickness.
- Continue to lower bailer into well and drop to the water table. Allow bailer to fill with no more than one foot of water/product. Remove bailer and empty contents into bucket. Continue fill bucket. Transfer filled buckets to drum.
- Repeat this process until thickness of free product is less than one inch. Record amount of water/product removed.
- If a groundwater sample will be collected use a new disposable bailer to obtain a water sample. Insert the bailers bottom emptying device and use to fill the appropriate sample bottle.
- Reattach string/rope to well plug, replace bailer and sock into well and cap with well plug. Replace well cover. Replace socks as needed.
- Secure cover on 55-gallon drum.

## Appendix B

### WDNR Well Construction (Form 4400-113A) and Well Development (Form 4400-113B) forms

Route To: Watershed/Wastewater  Waste Management   
Remediation/Revelopment  Other

Page 1 of 1

Facility/Project Name <u>Konop Property</u>		License/Permit/Monitoring Number		Boring Number <u>MW-12</u>	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <u>NA</u> Last Name: Firm: <u>Tetra Tech</u>		Date Drilling Started <u>05/18/2010</u> m m d d y y y y		Date Drilling Completed <u>05/18/2010</u> m m d d y y y y	
Drilling Method <u>HSA/Air Rotary</u>		Final Static Water Level Feet MSL		Surface Elevation Feet MSL	
Borehole Diameter <u>6</u> inches		WT Unique Well No.		DNR Well ID No.	
Well Name		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		Local Grid Location	
State Plane <u>SW</u> 1/4 of <u>SW</u> 1/4 of Section <u>14</u> , T <u>30</u> N, R <u>20E</u>		Lat <u>0</u> ' "		<input type="checkbox"/> N <input type="checkbox"/> E	
Long <u>0</u> ' "		<input type="checkbox"/> S <input type="checkbox"/> W		Feet <input type="checkbox"/> Feet <input type="checkbox"/>	
Facility ID		County <u>Marquette</u>		County Code <u>38</u>	
		Civil Town/City/ or Village <u>Coleman</u>			

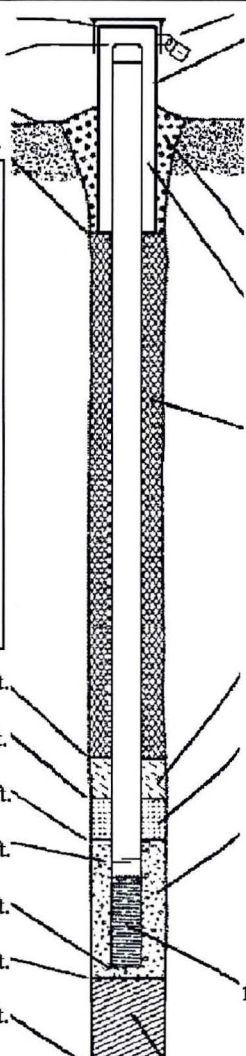
Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
				<u>Asphalt</u>											
			<u>5</u>	<u>Brown Sandy Clay</u>	<u>CL</u>										
			<u>10</u>												
			<u>15</u>	<u>Weathered lime stone Bedrock</u>	<u>R</u>										
			<u>20</u>	<u>EOB 18'</u>											

I hereby certify that the information on this form is true and correct to the best of my knowledge.


Signature: [Signature] Firm: Tetra Tech.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Facility/Project Name <b>Konop Property</b>		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name <b>MW-12</b>	
Facility License, Permit or Monitoring No.		Local Grid Origin (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/>		Wis. Unique Well No. DNR Well ID No.	
Facility ID		St. Plane ft. N. ft. E. S/C/N		Date Well Installed <b>05/18/2010</b> m m d d y y y y	
Type of Well Well Code <b>1</b>		Section Location of Waste/Source <b>SW 1/4 of SW 1/4 of Sec. 14, T. 30 N, R. 20</b> <input type="checkbox"/> E <input checked="" type="checkbox"/> W		Well Installed By: Name (first, last) and Firm <b>Nick A. Tetra Tech.</b>	
Distance from Waste/Source ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number	

<p>A. Protective pipe, top elevation ----- ft. MSL</p> <p>B. Well casing, top elevation ----- ft. MSL</p> <p>C. Land surface elevation ----- <b>0</b> ft. MSL</p> <p>D. Surface seal, bottom ----- ft. MSL or <b>0.5</b> ft.</p> <div style="border: 1px solid black; padding: 5px;"> <p>12. USCS classification of soil near screen:                  GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/>                  SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/>                  Bedrock <input checked="" type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50                  Hollow Stem Auger <input checked="" type="checkbox"/> 41                  Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01                  Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Describe _____</p> <p>17. Source of water (attach analysis, if required): _____</p> </div> <p>E. Bentonite seal, top ----- ft. MSL or <b>1</b> ft.</p> <p>F. Fine sand, top ----- ft. MSL or <b>6</b> ft.</p> <p>G. Filter pack, top ----- ft. MSL or <b>7</b> ft.</p> <p>H. Screen joint, top ----- ft. MSL or <b>8</b> ft.</p> <p>I. Well bottom ----- ft. MSL or <b>18</b> ft.</p> <p>J. Filter pack, bottom ----- ft. MSL or <b>18</b> ft.</p> <p>K. Borehole, bottom ----- ft. MSL or <b>18</b> ft.</p> <p>L. Borehole, diameter <b>6.0</b> in.</p> <p>M. O.D. well casing <b>2.25</b> in.</p> <p>N. I.D. well casing <b>2.0</b> in.</p>	 <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe:                  a. Inside diameter: <b>6</b> in.                  b. Length: <b>0.5</b> ft.                  c. Material: Steel <input checked="" type="checkbox"/> 04                  Other <input type="checkbox"/></p> <p>d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No                  If yes, describe: _____</p> <p>3. Surface seal:                  Bentonite <input type="checkbox"/> 30                  Concrete <input checked="" type="checkbox"/> 01                  Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe:                  Bentonite <input checked="" type="checkbox"/> 30                  Other <input type="checkbox"/></p> <p>5. Annular space seal:                  a. Granular/Chipped Bentonite <input type="checkbox"/> 33                  b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35                  c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31                  d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50                  e. _____ Ft<sup>3</sup> volume added for any of the above                  f. How installed: Tremie <input type="checkbox"/> 01                  Tremie pumped <input type="checkbox"/> 02                  Gravity <input checked="" type="checkbox"/> 08</p> <p>6. Bentonite seal:                  a. Bentonite granules <input type="checkbox"/> 33                  b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32                  c. _____ Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name &amp; mesh size                  a. <b>Red Flint Sand</b>                  b. Volume added _____ ft<sup>3</sup></p> <p>8. Filter pack material: Manufacturer, product name &amp; mesh size                  a. <b>Red Flint Sand #30</b>                  b. Volume added _____ ft<sup>3</sup></p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23                  Flush threaded PVC schedule 80 <input type="checkbox"/> 24                  Other <input type="checkbox"/></p> <p>10. Screen material: <b>PVC</b>                  a. Screen type: Factory cut <input checked="" type="checkbox"/> 11                  Continuous slot <input type="checkbox"/> 01                  Other <input type="checkbox"/></p> <p>b. Manufacturer _____                  c. Slot size: <b>0.10</b> in.                  d. Slotted length: <b>10</b> ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14                  Other <input type="checkbox"/></p>
---	---

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:  Firm: **Tetra Tech.**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.



Route to: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <u>Konop Property</u>	County Name <u>Marinette</u>	Well Name <u>MW-12</u>
Facility License, Permit or Monitoring Number	County Code <u>38</u>	Wis. Unique Well Number _____
		DNR Well ID Number _____

1. Can this well be purged dry?  Yes  No

2. Well development method
- surged with bailer and bailed  41
  - surged with bailer and pumped  61
  - surged with block and bailed  42
  - surged with block and pumped  62
  - surged with block, bailed and pumped  70
  - compressed air  20
  - bailed only  10
  - pumped only  51
  - pumped slowly  50
  - Other \_\_\_\_\_

3. Time spent developing well 60 min.

4. Depth of well (from top of well casing) 18 ft.

5. Inside diameter of well 2.0 in.

6. Volume of water in filter pack and well casing \_\_\_\_\_ gal.

7. Volume of water removed from well 20.0 gal.

8. Volume of water added (if any) 0 gal.

9. Source of water added \_\_\_\_\_

10. Analysis performed on water added?  Yes  No  
(If yes, attach results)

17. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>12.30</u> ft.	<u>12.50</u> ft.
Date	b. <u>05/18/2010</u> m m d d y y y y	<u>05/18/2010</u> m m d d y y y y
Time	c. <u>5:30</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	<u>6:30</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	<u>1.0</u> inches	<u>0.1</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe)	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids \_\_\_\_\_ mg/l \_\_\_\_\_ mg/l

15. COD \_\_\_\_\_ mg/l \_\_\_\_\_ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Mike Last Name: N.

Firm: Tetra Tech.

Name and Address of Facility Contact /Owner/Responsible Party

First Name: Dale Last Name: Konop

Facility/Firm: Konop Builders

Street: 110 Busn. Hwy 141N

City/State/Zip: Coleman, WI 54112

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: [Signature]

Print Name: Michael K. Nerl

Firm: Tetra Tech.

Route To: Watershed/Wastewater  Waste Management   
Remediation/Revelopment  Other

Page 1 of 1

Facility/Project Name <u>Konop Property</u>		License/Permit/Monitoring Number		Boring Number <u>P2-7</u>	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <u>NA</u> Last Name: Firm: <u>Tetra Tech</u>		Date Drilling Started <u>05/18/2010</u> m m d d y y y y	Date Drilling Completed <u>05/18/2010</u> m m d d y y y y	Drilling Method <u>HSA/Air Rotary</u>	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter <u>6</u> inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		State Plane <u>N</u> , <u>E</u>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
<u>S.W.</u> 1/4 of <u>SW</u> 1/4 of Section <u>14</u> , T <u>30</u> N, R <u>20E</u>		Lat <u>0</u> ' "		Long <u>0</u> ' "	
Facility ID	County <u>Marmette</u>	County Code <u>38</u>	Civil Town/City/ or Village <u>Coleman</u>		

Sample Number and Type	Length Air. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
				<u>ASPHALT</u>											
			<u>5</u>	<u>Brown Sandy clay</u>	<u>CL</u>										
			<u>10</u>												
			<u>15</u>												
			<u>20</u>	<u>Weathered lime stone</u>	<u>R</u>										
			<u>25</u>	<u>Bedrock</u>											
			<u>30</u>												
				<u>EOB 32'</u>											

Blind Drill

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm Tetra Tech.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Facility/Project Name <b>Konop Property</b>	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name <b>P2-7</b>
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/>	Wis. Unique Well No. _____ DNR Well ID No. _____
Facility ID	Lat. _____ " Long. _____ " or _____	Date Well Installed <b>05/18/2010</b>
Type of Well Well Code _____ / _____	Section Location of Waste/Source <b>SW 1/4 of SW 1/4 of Sec. 14, T. 30 N, R. 20</b> <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <b>Nick A. Tetra Tech.</b>
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation _____ ft. MSL		1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL		2. Protective cover pipe: a. Inside diameter: <b>6</b> in. b. Length: <b>0.5</b> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation <b>0</b> ft. MSL		d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or <b>0.5</b> ft.		3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>		4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight . . . . . Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite . . . . . Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft <sup>3</sup> volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		7. Fine sand material: Manufacturer, product name & mesh size a. <b>Red Flint sand</b> b. Volume added _____ ft <sup>3</sup>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		8. Filter pack material: Manufacturer, product name & mesh size a. <b>Red Flint Sand #30</b> b. Volume added _____ ft <sup>3</sup>
Describe _____		9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
17. Source of water (attach analysis, if required): _____		10. Screen material: <b>PVC</b> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or <b>1</b> ft.		b. Manufacturer _____ c. Slot size: <b>0.10</b> in. d. Slotted length: <b>5</b> ft.
F. Fine sand, top _____ ft. MSL or <b>25</b> ft.		11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
G. Filter pack, top _____ ft. MSL or <b>26</b> ft.		
H. Screen joint, top _____ ft. MSL or <b>27</b> ft.		
I. Well bottom _____ ft. MSL or <b>32</b> ft.		
J. Filter pack, bottom _____ ft. MSL or <b>32</b> ft.		
K. Borehole, bottom _____ ft. MSL or <b>32</b> ft.		
L. Borehole, diameter <b>6.0</b> in.		
M. O.D. well casing <b>2.25</b> in.		
N. I.D. well casing <b>2.0</b> in.		

I hereby certify that the information on this form is true and correct to the best of my knowledge.  
Signature: *[Handwritten Signature]* Firm: **Tetra Tech.**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <u>Konop Property</u>	County Name <u>Marinette</u>	Well Name <u>P2-7</u>
Facility License, Permit or Monitoring Number	County Code <u>38</u>	Wis. Unique Well Number _____
		DNR Well ID Number _____

1. Can this well be purged dry?  Yes  No

2. Well development method
- surged with bailer and bailed  41
  - surged with bailer and pumped  61
  - surged with block and bailed  42
  - surged with block and pumped  62
  - surged with block, bailed and pumped  70
  - compressed air  20
  - bailed only  10
  - pumped only  51
  - pumped slowly  50
  - Other \_\_\_\_\_  \_\_\_\_\_

3. Time spent developing well 60 min.

4. Depth of well (from top of well casing) 32 ft.

5. Inside diameter of well 2.0 in.

6. Volume of water in filter pack and well casing \_\_\_\_\_ gal.

7. Volume of water removed from well 20.0 gal.

8. Volume of water added (if any) 0 gal.

9. Source of water added \_\_\_\_\_

10. Analysis performed on water added?  Yes  No  
(If yes, attach results)

17. Additional comments on development:

- |  | Before Development   | After Development  |
|--|--|--|
| 11. Depth to Water (from top of well casing) | a. <u>13.00</u> ft.  | <u>13.80</u> ft.   |
| Date   | b. <u>05/18/2010</u><br>m m d d y y y y  | <u>05/18/2010</u><br>m m d d y y y y   |
| Time   | c. <u>5:30</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.                  | <u>6:30</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.                     |
| 12. Sediment in well bottom                  | <u>1.0</u> inches  | <u>0.1</u> inches  |
| 13. Water clarity                            | Clear <input type="checkbox"/> 10<br>Turbid <input checked="" type="checkbox"/> 15<br>(Describe) _____ | Clear <input checked="" type="checkbox"/> 20<br>Turbid <input type="checkbox"/> 25<br>(Describe) _____ |

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended \_\_\_\_\_ mg/l \_\_\_\_\_ mg/l  
solids

15. COD \_\_\_\_\_ mg/l \_\_\_\_\_ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Mike Last Name: N.

Firm: Tetra Tech.

Name and Address of Facility Contact /Owner/Responsible Party

First Name: Dale Last Name: Konop

Facility/Firm: Konop Builders

Street: 110 Busn. Hwy 141 N

City/State/Zip: Coleman, WI 54112

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: [Signature]

Print Name: Michael K. Nerl

Firm: Tetra Tech.

## Appendix C

### Analytical Results and Chain of Custody Documentation



June 02, 2010

Tetra Tech., Inc.  
1837 County Highway 00  
Chippewa Falls, WI 54729

Attn: Michael Neal

**REPORT NO.: 1005389**

**PROJECT NO.: Konop Property 114-330854**


Please find enclosed the analytical report, including the Sample Summary, Sample Narrative and Chain of Custody for your sample set received May 21, 2010.

All analyses were performed in accordance with NELAC Standards using approved methods as indicated on this report.

If you have any questions about the results, please call. Thank you for using Siemens Water Technologies for your analytical needs.

Sincerely,

Siemens Water Technologies



Bruce Schertz  
Lab Manager  
Enviroscan Analytical™ Services

*I certify that the data contained in this report has been generated and reviewed in accordance with the Siemens Water Technologies Quality Assurance Program. Exceptions, if any, are discussed in the sample narrative. Samples will be retained for 30 days from the date of this report, then disposed in an appropriate manner. Siemens Water Technologies Corp. reserves the right to return samples identified as hazardous. Release of this Final Report is authorized as verified by the following signature. The contents of this report apply to the sample(s) analyzed. No duplication of this report is allowed except in its entirety.*

Reviewed by: James R. Salkowski

**Certifications:**

Wisconsin 737053130  
Minnesota 055-999-302  
Illinois 100317



Siemens Water Technologies Corp.

301 West Military Road  
Rothschild, WI 54474

Tel: 800-338-7226  
Fax: 715-355-3221

[www.siemens.com/enviroscan](http://www.siemens.com/enviroscan)



**SAMPLE SUMMARY**

<u>Lab Id</u>	<u>Client</u>	<u>Sample Id</u>	<u>Date/Time</u>	<u>Matrix</u>
1005389-01	MW-3		05/18/10 13:15	Ground Water
1005389-02	PZ-3		05/18/10 13:30	Ground Water
1005389-03	MW-10		05/18/10 15:30	Ground Water
1005389-04	PZ-5		05/18/10 15:45	Ground Water
1005389-05	MW-F		05/18/10 14:00	Ground Water
1005389-06	PZ-4		05/18/10 14:15	Ground Water
1005389-07	PZ-2		05/18/10 14:45	Ground Water
1005389-08	MW-11		05/18/10 12:30	Ground Water
1005389-09	PZ-6		05/18/10 12:45	Ground Water
1005389-10	MW-12		05/18/10 18:45	Ground Water
1005389-11	PZ-7		05/18/10 18:45	Ground Water
1005389-12	Trip Blank		05/18/10 00:00	Water



Tetra Tech., Inc.  
 1837 County Highway 00  
 Chippewa Falls, WI 54729

PROJECT NO. : Konop Property 114-330854  
 REPORT NO. : 1005389  
 DATE REC'D: 05/21/10 16:57  
 REPORT DATE : 06/02/10 10:51  
 PREPARED BY : BMS

Attn: Michael Neal  
 Sample ID: MW-3

Matrix: Ground Water

Sample Date/Time: 05/18/10 13:15

Lab No. : 1005389-01

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b><u>EPA 6020 - Diss.</u></b>								
Dissolved Lead	ND	ug/L	0.60	4.00	2		05/24/10	JCH
<b><u>EPA 8260B</u></b>								
1,2,4-Trimethylbenzene	ND	ug/L	0.20	0.67	1		05/27/10	MPM
1,2-Dichloroethane	ND	ug/L	0.30	1.00	1		05/27/10	MPM
1,3,5-Trimethylbenzene	ND	ug/L	0.20	0.67	1		05/27/10	MPM
Benzene	0.64	ug/L	0.20	0.67	1	J	05/27/10	MPM
Ethylbenzene	ND	ug/L	0.20	0.67	1		05/27/10	MPM
m,p-Xylenes	ND	ug/L	0.40	1.30	1		05/27/10	MPM
Methyl-tert-Butyl Ether	ND	ug/L	0.50	1.70	1		05/27/10	MPM
Naphthalene	ND	ug/L	1.00	3.30	1		05/27/10	MPM
o-Xylene	ND	ug/L	0.20	0.67	1		05/27/10	MPM
Toluene	ND	ug/L	0.40	1.30	1		05/27/10	MPM

Sample ID: PZ-3

Matrix: Ground Water

Sample Date/Time: 05/18/10 13:30

Lab No. : 1005389-02

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b><u>EPA 6020 - Diss.</u></b>								
Dissolved Lead	ND	ug/L	0.60	4.00	2		05/24/10	JCH
<b><u>EPA 8260B</u></b>								
1,2,4-Trimethylbenzene	ND	ug/L	0.20	0.67	1		05/27/10	MPM
1,2-Dichloroethane	ND	ug/L	0.30	1.00	1		05/27/10	MPM
1,3,5-Trimethylbenzene	ND	ug/L	0.20	0.67	1		05/27/10	MPM
Benzene	1.71	ug/L	0.20	0.67	1	S1H, S2H	05/27/10	MPM
Ethylbenzene	ND	ug/L	0.20	0.67	1		05/27/10	MPM
m,p-Xylenes	ND	ug/L	0.40	1.30	1	DUP	05/27/10	MPM
Methyl-tert-Butyl Ether	ND	ug/L	0.50	1.70	1	S1H, S2H	05/27/10	MPM
Naphthalene	ND	ug/L	1.00	3.30	1		05/27/10	MPM
o-Xylene	ND	ug/L	0.20	0.67	1	DUP	05/27/10	MPM
Toluene	ND	ug/L	0.40	1.30	1		05/27/10	MPM





Tetra Tech., Inc.  
1837 County Highway 00  
Chippewa Falls, WI 54729

PROJECT NO. : Konop Property 114-330854  
REPORT NO. : 1005389  
DATE REC'D: 05/21/10 16:57  
REPORT DATE : 06/02/10 10:51  
PREPARED BY : BMS

Attn: Michael Neal

Sample ID: **MW-10**

Matrix: **Ground Water**

Sample Date/Time: **05/18/10 15:30**

Lab No. : **1005389-03**

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b><u>EPA 6020 - Diss.</u></b>								
Dissolved Lead	ND	ug/L	0.60	4.00	2		05/24/10	JCH
<b><u>EPA 8260B</u></b>								
1,2,4-Trimethylbenzene	ND	ug/L	0.20	0.67	1		05/27/10	MPM
1,2-Dichloroethane	ND	ug/L	0.30	1.00	1		05/27/10	MPM
1,3,5-Trimethylbenzene	ND	ug/L	0.20	0.67	1		05/27/10	MPM
Benzene	ND	ug/L	0.20	0.67	1		05/27/10	MPM
Ethylbenzene	ND	ug/L	0.20	0.67	1		05/27/10	MPM
m,p-Xylenes	ND	ug/L	0.40	1.30	1		05/27/10	MPM
Methyl-tert-Butyl Ether	ND	ug/L	0.50	1.70	1		05/27/10	MPM
Naphthalene	ND	ug/L	1.00	3.30	1		05/27/10	MPM
o-Xylene	ND	ug/L	0.20	0.67	1		05/27/10	MPM
Toluene	ND	ug/L	0.40	1.30	1		05/27/10	MPM

Sample ID: **PZ-5**

Matrix: **Ground Water**

Sample Date/Time: **05/18/10 15:45**

Lab No. : **1005389-04**

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b><u>EPA 6020 - Diss.</u></b>								
Dissolved Lead	ND	ug/L	0.60	4.00	2		05/24/10	JCH
<b><u>EPA 8260B</u></b>								
1,2,4-Trimethylbenzene	ND	ug/L	0.20	0.67	1		05/27/10	MPM
1,2-Dichloroethane	0.30	ug/L	0.30	1.00	1	J	05/27/10	MPM
1,3,5-Trimethylbenzene	ND	ug/L	0.20	0.67	1		05/27/10	MPM
Benzene	ND	ug/L	0.20	0.67	1		05/27/10	MPM
Ethylbenzene	ND	ug/L	0.20	0.67	1		05/27/10	MPM
m,p-Xylenes	ND	ug/L	0.40	1.30	1		05/27/10	MPM
Methyl-tert-Butyl Ether	ND	ug/L	0.50	1.70	1		05/27/10	MPM
Naphthalene	ND	ug/L	1.00	3.30	1		05/27/10	MPM
o-Xylene	ND	ug/L	0.20	0.67	1		05/27/10	MPM
Toluene	ND	ug/L	0.40	1.30	1		05/27/10	MPM



Tetra Tech., Inc.  
1837 County Highway 00  
Chippewa Falls, WI 54729

PROJECT NO. : Konop Property 114-330854  
REPORT NO. : 1005389  
DATE REC'D: 05/21/10 16:57  
REPORT DATE : 06/02/10 10:51  
PREPARED BY : BMS

Attn: Michael Neal  
Sample ID: **MW-F**

Matrix: **Ground Water**

Sample Date/Time: **05/18/10 14:00**

Lab No. : **1005389-05**

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b><u>EPA 6020 - Diss.</u></b>								
Dissolved Lead	4.15	ug/L	0.60	4.00	2		05/24/10	JCH
<b><u>EPA 8260B</u></b>								
1,2,4-Trimethylbenzene	1360	ug/L	20.0	67.0	100		05/27/10	MPM
1,2-Dichloroethane	45.8	ug/L	30.0	100	100	J	05/27/10	MPM
1,3,5-Trimethylbenzene	302	ug/L	20.0	67.0	100		05/27/10	MPM
Benzene	2030	ug/L	20.0	67.0	100		05/27/10	MPM
Ethylbenzene	2540	ug/L	20.0	67.0	100		05/27/10	MPM
m,p-Xylenes	6480	ug/L	40.0	130	100		05/27/10	MPM
Methyl-tert-Butyl Ether	ND	ug/L	50.0	170	100		05/27/10	MPM
Naphthalene	378	ug/L	100	330	100		05/27/10	MPM
o-Xylene	2400	ug/L	20.0	67.0	100		05/27/10	MPM
Toluene	9220	ug/L	40.0	130	100		05/27/10	MPM

Sample ID: **PZ-4**

Matrix: **Ground Water**

Sample Date/Time: **05/18/10 14:15**

Lab No. : **1005389-06**

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b><u>EPA 6020 - Diss.</u></b>								
Dissolved Lead	ND	ug/L	0.60	4.00	2		05/24/10	JCH
<b><u>EPA 8260B</u></b>								
1,2,4-Trimethylbenzene	803	ug/L	10.0	33.5	50		05/28/10	MPM
1,2-Dichloroethane	25.4	ug/L	15.0	50.0	50	J	05/28/10	MPM
1,3,5-Trimethylbenzene	670	ug/L	10.0	33.5	50		05/28/10	MPM
Benzene	1010	ug/L	10.0	33.5	50		05/28/10	MPM
Ethylbenzene	1270	ug/L	10.0	33.5	50		05/28/10	MPM
m,p-Xylenes	2950	ug/L	20.0	65.0	50		05/28/10	MPM
Methyl-tert-Butyl Ether	ND	ug/L	25.0	85.0	50		05/28/10	MPM
Naphthalene	226	ug/L	50.0	165	50		05/28/10	MPM
o-Xylene	1010	ug/L	10.0	33.5	50		05/28/10	MPM
Toluene	2380	ug/L	20.0	65.0	50		05/28/10	MPM



Tetra Tech., Inc.  
1837 County Highway 00  
Chippewa Falls, WI 54729

PROJECT NO. : Konop Property 114-330854  
REPORT NO. : 1005389  
DATE REC'D: 05/21/10 16:57  
REPORT DATE : 06/02/10 10:51  
PREPARED BY : BMS

Attn: Michael Neal

Sample ID: PZ-2

Matrix: Ground Water

Sample Date/Time: 05/18/10 14:45

Lab No. : 1005389-07

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b><u>EPA 6020 - Diss.</u></b>								
Dissolved Lead	ND	ug/L	0.60	4.00	2		05/24/10	JCH
<b><u>EPA 8260B</u></b>								
1,2,4-Trimethylbenzene	76.8	ug/L	2.00	6.70	10		06/01/10	MPM
1,2-Dichloroethane	6.01	ug/L	3.00	10.0	10	J	06/01/10	MPM
1,3,5-Trimethylbenzene	55.2	ug/L	2.00	6.70	10		06/01/10	MPM
Benzene	235	ug/L	2.00	6.70	10		06/01/10	MPM
Ethylbenzene	240	ug/L	2.00	6.70	10		06/01/10	MPM
m,p-Xylenes	130	ug/L	4.00	13.0	10		06/01/10	MPM
Methyl-tert-Butyl Ether	ND	ug/L	5.00	17.0	10		06/01/10	MPM
Naphthalene	25.4	ug/L	10.0	33.0	10	J	06/01/10	MPM
o-Xylene	19.5	ug/L	2.00	6.70	10		06/01/10	MPM
Toluene	45.5	ug/L	4.00	13.0	10		06/01/10	MPM

Sample ID: MW-11

Matrix: Ground Water

Sample Date/Time: 05/18/10 12:30

Lab No. : 1005389-08

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b><u>EPA 6020 - Diss.</u></b>								
Dissolved Lead	ND	ug/L	0.60	4.00	2		05/24/10	JCH
<b><u>EPA 8260B</u></b>								
1,2,4-Trimethylbenzene	ND	ug/L	0.20	0.67	1		05/28/10	MPM
1,2-Dichloroethane	ND	ug/L	0.30	1.00	1		05/28/10	MPM
1,3,5-Trimethylbenzene	ND	ug/L	0.20	0.67	1		05/28/10	MPM
Benzene	ND	ug/L	0.20	0.67	1		05/28/10	MPM
Ethylbenzene	ND	ug/L	0.20	0.67	1		05/28/10	MPM
m,p-Xylenes	ND	ug/L	0.40	1.30	1		05/28/10	MPM
Methyl-tert-Butyl Ether	ND	ug/L	0.50	1.70	1		05/28/10	MPM
Naphthalene	ND	ug/L	1.00	3.30	1		05/28/10	MPM
o-Xylene	ND	ug/L	0.20	0.67	1		05/28/10	MPM
Toluene	ND	ug/L	0.40	1.30	1		05/28/10	MPM



Tetra Tech., Inc.  
1837 County Highway 00  
Chippewa Falls, WI 54729

PROJECT NO. : Konop Property 114-330854  
REPORT NO. : 1005389  
DATE REC'D: 05/21/10 16:57  
REPORT DATE : 06/02/10 10:51  
PREPARED BY : BMS

Attn: Michael Neal  
Sample ID: PZ-6

Matrix: Ground Water

Sample Date/Time: 05/18/10 12:45

Lab No. : 1005389-09

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b><u>EPA 6020 - Diss.</u></b>								
Dissolved Lead	2.00	ug/L	0.60	4.00	2	J	05/24/10	JCH
<b><u>EPA 8260B</u></b>								
1,2,4-Trimethylbenzene	0.24	ug/L	0.20	0.67	1	J	05/28/10	MPM
1,2-Dichloroethane	ND	ug/L	0.30	1.00	1		05/28/10	MPM
1,3,5-Trimethylbenzene	0.21	ug/L	0.20	0.67	1	J	05/28/10	MPM
Benzene	ND	ug/L	0.20	0.67	1		05/28/10	MPM
Ethylbenzene	ND	ug/L	0.20	0.67	1		05/28/10	MPM
m,p-Xylenes	ND	ug/L	0.40	1.30	1		05/28/10	MPM
Methyl-tert-Butyl Ether	ND	ug/L	0.50	1.70	1		05/28/10	MPM
Naphthalene	ND	ug/L	1.00	3.30	1		05/28/10	MPM
o-Xylene	ND	ug/L	0.20	0.67	1		05/28/10	MPM
Toluene	ND	ug/L	0.40	1.30	1		05/28/10	MPM

Sample ID: MW-12

Matrix: Ground Water

Sample Date/Time: 05/18/10 18:45

Lab No. : 1005389-10

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b><u>EPA 6020 - Diss.</u></b>								
Dissolved Lead	1.33	ug/L	0.60	4.00	2	J	05/24/10	JCH
<b><u>EPA 8260B</u></b>								
1,2,4-Trimethylbenzene	298	ug/L	2.00	6.70	10		05/28/10	MPM
1,2-Dichloroethane	ND	ug/L	3.00	10.0	10		05/28/10	MPM
1,3,5-Trimethylbenzene	207	ug/L	2.00	6.70	10		05/28/10	MPM
Benzene	ND	ug/L	2.00	6.70	10		05/28/10	MPM
Ethylbenzene	58.1	ug/L	2.00	6.70	10		05/28/10	MPM
m,p-Xylenes	152	ug/L	4.00	13.0	10		05/28/10	MPM
Methyl-tert-Butyl Ether	ND	ug/L	5.00	17.0	10		05/28/10	MPM
Naphthalene	28.6	ug/L	10.0	33.0	10	J	05/28/10	MPM
o-Xylene	36.8	ug/L	2.00	6.70	10		05/28/10	MPM
Toluene	12.9	ug/L	4.00	13.0	10	J	05/28/10	MPM



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 1837 County Highway 00  
 Chippewa Falls, WI 54729

PROJECT NO. : Konop Property 114-330854  
 REPORT NO. : 1005389  
 DATE REC'D: 05/21/10 16:57  
 REPORT DATE : 06/02/10 10:51  
 PREPARED BY : BMS

Attn: Michael Neal

Sample ID: PZ-7

Matrix: Ground Water

Sample Date/Time: 05/18/10 18:45

Lab No. : 1005389-11

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b><u>EPA 6020 - Diss.</u></b>								
Dissolved Lead	ND	ug/L	0.60	4.00	2		05/24/10	JCH
<b><u>EPA 8260B</u></b>								
1,2,4-Trimethylbenzene	9.82	ug/L	0.20	0.67	1		05/28/10	MPM
1,2-Dichloroethane	ND	ug/L	0.30	1.00	1		05/28/10	MPM
1,3,5-Trimethylbenzene	10.2	ug/L	0.20	0.67	1		05/28/10	MPM
Benzene	0.56	ug/L	0.20	0.67	1	J	05/28/10	MPM
Ethylbenzene	2.22	ug/L	0.20	0.67	1		05/28/10	MPM
m,p-Xylenes	10.3	ug/L	0.40	1.30	1		05/28/10	MPM
Methyl-tert-Butyl Ether	ND	ug/L	0.50	1.70	1		05/28/10	MPM
Naphthalene	1.53	ug/L	1.00	3.30	1	J	05/28/10	MPM
o-Xylene	2.99	ug/L	0.20	0.67	1		05/28/10	MPM
Toluene	1.16	ug/L	0.40	1.30	1	J	05/28/10	MPM

Sample ID: Trip Blank

Matrix: Water

Sample Date/Time: 05/18/10 0:00

Lab No. : 1005389-12

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b><u>EPA 8260B</u></b>								
1,2,4-Trimethylbenzene	ND	ug/L	0.20	0.67	1		05/28/10	MPM
1,2-Dichloroethane	ND	ug/L	0.30	1.00	1		05/28/10	MPM
1,3,5-Trimethylbenzene	ND	ug/L	0.20	0.67	1		05/28/10	MPM
Benzene	ND	ug/L	0.20	0.67	1		05/28/10	MPM
Ethylbenzene	ND	ug/L	0.20	0.67	1		05/28/10	MPM
m,p-Xylenes	ND	ug/L	0.40	1.30	1		05/28/10	MPM
Methyl-tert-Butyl Ether	ND	ug/L	0.50	1.70	1		05/28/10	MPM
Naphthalene	ND	ug/L	1.00	3.30	1		05/28/10	MPM
o-Xylene	ND	ug/L	0.20	0.67	1		05/28/10	MPM
Toluene	ND	ug/L	0.40	1.30	1		05/28/10	MPM



### Qualifier Descriptions

S2H	Second sample matrix spike recovery was high.
S1H	First sample matrix spike recovery was high.
J	Estimated concentration below laboratory quantitation level.
DUP	Result of duplicate analysis in this quality assurance batch exceeds the limits for precision.

### Definitions

LOD = Limit of Detection (Dilution Corrected)  
LOQ = Limit of Quantitation (Dilution Corrected)  
Reporting Limit = LOQ (Dilution Corrected)  
ND = Not Detected  
COMP = Complete  
SUBCON = Subcontracted analysis  
mv = millivolts  
pci/L = picocuries per Liter  
mL/L = milliliters per Liter  
mg = milligram

When the word "dry" follows the units on the result page the sample results are dry weight corrected.

LODs and LOQs are dry weight corrected for all soils except WI GRO and EPA 8021 methanol and WI DNR methylene chloride preserved soils.

ug/l = Micrograms per Liter = parts per billion (ppb)  
ug/kg = Micrograms per kilogram = parts per billion (ppb)  
mg/l = Milligrams per liter = parts per million (ppm)  
mg/kg = Milligrams per kilogram = parts per million (ppm)  
NOT PRES = Not Present  
ppth = Parts per thousand  
\* = Result outside established limits.  
mg/m<sup>3</sup> = Milligrams per meter cubed  
ng/L = Nanograms per Liter = Parts per trillion (ppt)  
> = Greater Than

Methanol Soils for WI GRO and EPA 8021 are reported to the LOQ.

Company Name <b>Tetra Tech</b>	Project <b>Konop Property 114-330854</b>
Report Mailing Address <b>1837 CTH 00 CF, WI 54729</b>	Contact Name, Phone, Fax, Email <b>Michael.Verl@tetra.tech.com</b>
Invoice Address	Purchase Order # Invoice Contact and Phone No.

Matrix: Drinking Water Groundwater Wastewater Soil/Solid Other: \_\_\_\_\_

Wis. PECFA Project subject to U&C? Yes  No

For Compliance Monitoring? Yes  No  State: \_\_\_\_\_  
(If Yes, please specify Agency or Regulation) Agency/Reg.: \_\_\_\_\_

Turnaround Request:  Normal (10 Bus. Days)  
 Rush (Must be pre-approved by Lab and is subject to surcharges)  
Date Needed: \_\_\_\_\_

Analyses Requested		Lab Use Only	
PNUC + Mphi + 100CA / lead		Delivered by	Walk-in <input type="radio"/> Courier <input checked="" type="radio"/>
		Ship. Cont. OK?	<input checked="" type="radio"/> N <input type="radio"/> NA
		Samples Leaking?	Y <input type="radio"/> N <input checked="" type="radio"/> NA
		Seals OK?	<input checked="" type="radio"/> N <input type="radio"/> NA
		Rec'd on Ice?	<input checked="" type="radio"/> N <input type="radio"/> NA
		Sample Receiving Comments: 3.2e	

Dunham

WO No. 1005389

Lab Use Only	Sample		No. of Containers		Sample ID	Analyses Requested		Comments
	Date	Time	Comp	Grab				
-01	5-18-10	115		4	MW-3	X	X	250ml pH HNO <sub>3</sub>
-02		130		4	P2-3	X	X	3 vials HCL
-03		330		4	MW-10	X	X	
-04		345		4	P2-5	X	X	
-05		200		4	MW-F	X	X	
-06		215		4	P2-4	X	X	
					<del>MW-8</del>			NO SAMPLE DRY
-07		245		4	P2-2	X	X	
-08		1230		4	MW-11	X	X	
-09		1245		4	P2-6	X	X	

Chain of Custody Record

Relinquished By:	Date	Time	Received By:
<i>[Signature]</i>	5/20/10	5:30	Dunham
	5/21/10	10:57	<i>[Signature]</i>

2 of 2

Company Name <b>Tetra Tech</b>	Project <b>Konop Property 114-330854</b>	
Report Mailing Address <b>1837 CT#00 CF, WI 54729</b>	Contact Name, Phone, Fax, Email <b>Michael.Neal@tetra.tech.com</b>	
Invoice Address	Purchase Order #	Invoice Contact and Phone No.

Matrix: Drinking Water Groundwater Wastewater Soil/Solid Other: \_\_\_\_\_

Wis. PECFA Project subject to U&C? Yes  No

For Compliance Monitoring? Yes  No  State: \_\_\_\_\_  
(If Yes, please specify Agency or Regulation) Agency/Reg.: \_\_\_\_\_

Turnaround Request:  Normal (10 Bus. Days)  
 Rush (Must be pre-approved by Lab and is subject to surcharges)  
Date Needed: \_\_\_\_\_

WO No. 1005389

Analyses Requested						Lab Use Only		
						Delivered by:	Walk-in	<u>Courier</u>
						Ship. Cont. OK?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N NA
						Samples Leaking?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N NA
						Seals OK?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N NA
						Rec'd on Ice?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N NA
						Sample Receiving Comments: <b>3.2°C</b>		
						Comments		

Lab Use Only	Sample		No. of Containers		Sample ID
	Date	Time	Comp	Grab	
-10	5-18-10	645		4	MW-12
-11	↓	645		4	PZ-7
-12	↓	—		2	TRIP BLANK

VOCS  
LEAD

Dunham

250 ml pl  
HNO<sub>3</sub>  
3 vials HCL

Chain of Custody Record

Relinquished By:	Date	Time	Received By:
<i>Michael Neal</i>	5/20/10	5:30	Dunham
	5/21/10	10:57	Mawahh Pumb





October 18, 2010

Tetra Tech., Inc.  
1837 County Highway 00  
Chippewa Falls, WI 54729

Attn: Michael Neal

**REPORT NO.: 1010105**

**PROJECT NO.: Konop Property 114-330854**

Please find enclosed the analytical report, including the Sample Summary, Sample Narrative and Chain of Custody for your sample set received October 6, 2010.

All analyses were performed in accordance with NELAC Standards using approved methods as indicated on this report.

If you have any questions about the results, please call. Thank you for using Siemens Water Technologies for your analytical needs.

Sincerely,

Siemens Water Technologies

James Salkowski

Lab Director

Enviroscan Analytical™ Services

*I certify that the data contained in this report has been generated and reviewed in accordance with the Siemens Water Technologies Quality Assurance Program. Exceptions, if any, are discussed in the sample narrative. Samples will be retained for 30 days from the date of this report, then disposed in an appropriate manner. Siemens Water Technologies Corp. reserves the right to return samples identified as hazardous. Release of this Final Report is authorized as verified by the following signature. The contents of this report apply to the sample(s) analyzed. No duplication of this report is allowed except in its entirety.*

Reviewed by: \_\_\_\_\_

**Certifications:**

Wisconsin 737053130  
Minnesota 055-999-302  
Illinois 100317



Siemens Water Technologies Corp.

301 West Military Road  
Rothschild, WI 54474

Tel: 800-338-7226  
Fax: 715-355-3221

[www.siemens.com/enviroscan](http://www.siemens.com/enviroscan)



SAMPLE SUMMARY

<u>Lab Id</u>	<u>Client</u>	<u>Sample Id</u>	<u>Date/Time</u>	<u>Matrix</u>
1010105-01	MW-3		10/06/10 09:10	Ground Water
1010105-02	PZ-3		10/06/10 08:55	Ground Water
1010105-03	MW-10		10/06/10 09:30	Ground Water
1010105-04	PZ-5		10/06/10 09:50	Ground Water
1010105-05	MW-F		10/06/10 10:35	Ground Water
1010105-06	PZ-4		10/06/10 10:15	Ground Water
1010105-07	MW-8		10/06/10 11:05	Ground Water
1010105-08	PZ-2		10/06/10 11:15	Ground Water
1010105-09	MW-11		10/06/10 12:45	Ground Water
1010105-10	PZ-6		10/06/10 13:00	Ground Water
1010105-11	MW-12		10/06/10 12:00	Ground Water
1010105-12	PZ-7		10/06/10 12:15	Ground Water
1010105-13	Trip Blank		10/06/10 00:00	Water



Tetra Tech., Inc.  
1837 County Highway 00  
Chippewa Falls, WI 54729

PROJECT NO. : Konop Property 114-330854  
REPORT NO. : 1010105  
DATE REC'D: 10/06/10 15:30  
REPORT DATE : 10/18/10 08:34  
PREPARED BY : JRS

Attn: Michael Neal  
Sample ID: **MW-3**

Matrix: **Ground Water**

Sample Date/Time: **10/06/10 9:10**

Lab No. : **1010105-01**

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b>EPA 8260B</b>								
1,2,4-Trimethylbenzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
1,2-Dichloroethane	ND	ug/L	0.30	1.00	1		10/07/10	MRD
1,3,5-Trimethylbenzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Benzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Ethylbenzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
m,p-Xylenes	ND	ug/L	0.40	1.30	1		10/07/10	MRD
Methyl-tert-Butyl Ether	ND	ug/L	0.50	1.70	1		10/07/10	MRD
Naphthalene	ND	ug/L	1.00	3.30	1		10/07/10	MRD
o-Xylene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Toluene	ND	ug/L	0.40	1.30	1		10/07/10	MRD

Sample ID: **PZ-3**

Matrix: **Ground Water**

Sample Date/Time: **10/06/10 8:55**

Lab No. : **1010105-02**

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b>EPA 8260B</b>								
1,2,4-Trimethylbenzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
1,2-Dichloroethane	ND	ug/L	0.30	1.00	1		10/07/10	MRD
1,3,5-Trimethylbenzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Benzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Ethylbenzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
m,p-Xylenes	ND	ug/L	0.40	1.30	1		10/07/10	MRD
Methyl-tert-Butyl Ether	ND	ug/L	0.50	1.70	1		10/07/10	MRD
Naphthalene	ND	ug/L	1.00	3.30	1		10/07/10	MRD
o-Xylene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Toluene	ND	ug/L	0.40	1.30	1		10/07/10	MRD



Tetra Tech., Inc.  
 1837 County Highway 00  
 Chippewa Falls, WI 54729

PROJECT NO. : Konop Property 114-330854  
 REPORT NO. : 1010105  
 DATE REC'D: 10/06/10 15:30  
 REPORT DATE : 10/18/10 08:34  
 PREPARED BY : JRS

Attn: Michael Neal  
 Sample ID: MW-10

Matrix: Ground Water

Sample Date/Time: 10/06/10 9:30

Lab No. : 1010105-03

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b>EPA 8260B</b>								
1,2,4-Trimethylbenzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
1,2-Dichloroethane	ND	ug/L	0.30	1.00	1		10/07/10	MRD
1,3,5-Trimethylbenzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Benzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Ethylbenzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
m,p-Xylenes	ND	ug/L	0.40	1.30	1		10/07/10	MRD
Methyl-tert-Butyl Ether	ND	ug/L	0.50	1.70	1		10/07/10	MRD
Naphthalene	ND	ug/L	1.00	3.30	1		10/07/10	MRD
o-Xylene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Toluene	ND	ug/L	0.40	1.30	1		10/07/10	MRD

Sample ID: PZ-5

Matrix: Ground Water

Sample Date/Time: 10/06/10 9:50

Lab No. : 1010105-04

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b>EPA 8260B</b>								
1,2,4-Trimethylbenzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
1,2-Dichloroethane	ND	ug/L	0.30	1.00	1		10/07/10	MRD
1,3,5-Trimethylbenzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Benzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Ethylbenzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
m,p-Xylenes	ND	ug/L	0.40	1.30	1		10/07/10	MRD
Methyl-tert-Butyl Ether	ND	ug/L	0.50	1.70	1		10/07/10	MRD
Naphthalene	ND	ug/L	1.00	3.30	1		10/07/10	MRD
o-Xylene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Toluene	ND	ug/L	0.40	1.30	1		10/07/10	MRD



Tetra Tech., Inc.  
 1837 County Highway 00  
 Chippewa Falls, WI 54729

PROJECT NO. : Konop Property 114-330854  
 REPORT NO. : 1010105  
 DATE REC'D: 10/06/10 15:30  
 REPORT DATE : 10/18/10 08:34  
 PREPARED BY : JRS

Attn: Michael Neal  
 Sample ID: MW-F

Matrix: Ground Water

Sample Date/Time: 10/06/10 10:35

Lab No. : 1010105-05

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b><u>EPA 6020 - Diss.</u></b>								
Dissolved Lead	3.82	ug/L	0.60	4.00	2	J	10/14/10	JCH
<b><u>EPA 8260B</u></b>								
1,2,4-Trimethylbenzene	1360	ug/L	20.0	67.0	100		10/07/10	MRD
1,2-Dichloroethane	ND	ug/L	30.0	100	100		10/07/10	MRD
1,3,5-Trimethylbenzene	312	ug/L	20.0	67.0	100		10/07/10	MRD
Benzene	1690	ug/L	20.0	67.0	100		10/07/10	MRD
Ethylbenzene	2060	ug/L	20.0	67.0	100		10/07/10	MRD
m,p-Xylenes	6140	ug/L	40.0	130	100		10/07/10	MRD
Methyl-tert-Butyl Ether	ND	ug/L	50.0	170	100		10/07/10	MRD
Naphthalene	419	ug/L	100	330	100		10/07/10	MRD
o-Xylene	2270	ug/L	20.0	67.0	100		10/07/10	MRD
Toluene	9150	ug/L	40.0	130	100		10/07/10	MRD

Sample ID: PZ-4

Matrix: Ground Water

Sample Date/Time: 10/06/10 10:15

Lab No. : 1010105-06

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b><u>EPA 8260B</u></b>								
1,2,4-Trimethylbenzene	704	ug/L	10.0	33.5	50		10/07/10	MRD
1,2-Dichloroethane	ND	ug/L	15.0	50.0	50		10/07/10	MRD
1,3,5-Trimethylbenzene	158	ug/L	10.0	33.5	50		10/07/10	MRD
Benzene	941	ug/L	10.0	33.5	50		10/07/10	MRD
Ethylbenzene	1090	ug/L	10.0	33.5	50		10/07/10	MRD
m,p-Xylenes	2620	ug/L	20.0	65.0	50		10/07/10	MRD
Methyl-tert-Butyl Ether	ND	ug/L	25.0	85.0	50		10/07/10	MRD
Naphthalene	234	ug/L	50.0	165	50		10/07/10	MRD
o-Xylene	959	ug/L	10.0	33.5	50		10/07/10	MRD
Toluene	3140	ug/L	20.0	65.0	50		10/07/10	MRD



Tetra Tech., Inc.  
 1837 County Highway 00  
 Chippewa Falls, WI 54729

PROJECT NO. : Konop Property 114-330854  
 REPORT NO. : 1010105  
 DATE REC'D: 10/06/10 15:30  
 REPORT DATE : 10/18/10 08:34  
 PREPARED BY : JRS

Attn: Michael Neal  
 Sample ID: MW-8

Matrix: Ground Water      Sample Date/Time: 10/06/10 11:05      Lab No. : 1010105-07

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b><u>EPA 6020 - Diss.</u></b>								
Dissolved Lead	ND	ug/L	0.60	4.00	2		10/14/10	JCH
<b><u>EPA 8260B</u></b>								
1,2,4-Trimethylbenzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
1,2-Dichloroethane	ND	ug/L	0.30	1.00	1		10/07/10	MRD
1,3,5-Trimethylbenzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Benzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Ethylbenzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
m,p-Xylenes	ND	ug/L	0.40	1.30	1		10/07/10	MRD
Methyl-tert-Butyl Ether	ND	ug/L	0.50	1.70	1		10/07/10	MRD
Naphthalene	ND	ug/L	1.00	3.30	1		10/07/10	MRD
o-Xylene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Toluene	ND	ug/L	0.40	1.30	1		10/07/10	MRD

Sample ID: PZ-2

Matrix: Ground Water      Sample Date/Time: 10/06/10 11:15      Lab No. : 1010105-08

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b><u>EPA 8260B</u></b>								
1,2,4-Trimethylbenzene	52.8	ug/L	2.00	6.70	10		10/07/10	MRD
1,2-Dichloroethane	ND	ug/L	3.00	10.0	10		10/07/10	MRD
1,3,5-Trimethylbenzene	18.6	ug/L	2.00	6.70	10		10/07/10	MRD
Benzene	377	ug/L	2.00	6.70	10		10/07/10	MRD
Ethylbenzene	142	ug/L	2.00	6.70	10		10/07/10	MRD
m,p-Xylenes	86.7	ug/L	4.00	13.0	10		10/07/10	MRD
Methyl-tert-Butyl Ether	ND	ug/L	5.00	17.0	10		10/07/10	MRD
Naphthalene	36.6	ug/L	10.0	33.0	10		10/07/10	MRD
o-Xylene	17.8	ug/L	2.00	6.70	10		10/07/10	MRD
Toluene	51.3	ug/L	4.00	13.0	10		10/07/10	MRD



Tetra Tech., Inc.  
1837 County Highway 00  
Chippewa Falls, WI 54729

PROJECT NO. : Konop Property 114-330854  
REPORT NO. : 1010105  
DATE REC'D: 10/06/10 15:30  
REPORT DATE : 10/18/10 08:34  
PREPARED BY : JRS

Attn: Michael Neal  
Sample ID: MW-11

Matrix: Ground Water

Sample Date/Time: 10/06/10 12:45

Lab No. : 1010105-09

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b>EPA 8260B</b>								
1,2,4-Trimethylbenzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
1,2-Dichloroethane	ND	ug/L	0.30	1.00	1		10/07/10	MRD
1,3,5-Trimethylbenzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Benzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Ethylbenzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
m,p-Xylenes	ND	ug/L	0.40	1.30	1		10/07/10	MRD
Methyl-tert-Butyl Ether	ND	ug/L	0.50	1.70	1		10/07/10	MRD
Naphthalene	ND	ug/L	1.00	3.30	1		10/07/10	MRD
o-Xylene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Toluene	ND	ug/L	0.40	1.30	1		10/07/10	MRD

Sample ID: PZ-6

Matrix: Ground Water

Sample Date/Time: 10/06/10 13:00

Lab No. : 1010105-10

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b>EPA 6020 - Diss.</b>								
Dissolved Lead	ND	ug/L	0.60	4.00	2		10/14/10	JCH
<b>EPA 8260B</b>								
1,2,4-Trimethylbenzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
1,2-Dichloroethane	ND	ug/L	0.30	1.00	1		10/07/10	MRD
1,3,5-Trimethylbenzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Benzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Ethylbenzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
m,p-Xylenes	ND	ug/L	0.40	1.30	1		10/07/10	MRD
Methyl-tert-Butyl Ether	ND	ug/L	0.50	1.70	1		10/07/10	MRD
Naphthalene	ND	ug/L	1.00	3.30	1		10/07/10	MRD
o-Xylene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Toluene	ND	ug/L	0.40	1.30	1		10/07/10	MRD



Tetra Tech., Inc.  
 1837 County Highway 00  
 Chippewa Falls, WI 54729

PROJECT NO. : Konop Property 114-330854  
 REPORT NO. : 1010105  
 DATE REC'D: 10/06/10 15:30  
 REPORT DATE : 10/18/10 08:34  
 PREPARED BY : JRS

Attn: Michael Neal  
 Sample ID: MW-12

Matrix: Ground Water

Sample Date/Time: 10/06/10 12:00

Lab No. : 1010105-11

	Results	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
<b>EPA 6020 - Diss.</b>								
Dissolved Lead	1.11	ug/L	0.60	4.00	2	J	10/14/10	JCH
<b>EPA 8260B</b>								
1,1,1,2-Tetrachloroethane	ND	ug/L	0.30	1.00	1		10/08/10	MRD
1,1,1-Trichloroethane	ND	ug/L	0.50	1.70	1		10/08/10	MRD
1,1,2-Tetrachloroethane	ND	ug/L	0.40	1.30	1		10/08/10	MRD
1,1,2-Trichloroethane	ND	ug/L	0.40	1.30	1		10/08/10	MRD
1,1-Dichloroethane	ND	ug/L	0.40	1.30	1		10/08/10	MRD
1,1-Dichloroethylene	ND	ug/L	0.40	1.30	1		10/08/10	MRD
1,1-Dichloropropylene	ND	ug/L	0.80	2.70	1		10/08/10	MRD
1,2,3-Trichlorobenzene	ND	ug/L	0.50	1.70	1		10/08/10	MRD
1,2,3-Trichloropropane	ND	ug/L	1.00	3.30	1		10/08/10	MRD
1,2,4-Trichlorobenzene	ND	ug/L	0.50	1.70	1		10/08/10	MRD
1,2,4-Trimethylbenzene	2.72	ug/L	0.20	0.67	1		10/08/10	MRD
1,2-Dibromo-3-chloropropane	ND	ug/L	1.30	4.30	1		10/08/10	MRD
1,2-Dibromoethane	ND	ug/L	0.30	1.00	1		10/08/10	MRD
1,2-Dichlorobenzene	ND	ug/L	0.80	2.70	1		10/08/10	MRD
1,2-Dichloroethane	ND	ug/L	0.30	1.00	1		10/08/10	MRD
1,2-Dichloropropane	ND	ug/L	0.40	1.30	1		10/08/10	MRD
1,3,5-Trimethylbenzene	0.83	ug/L	0.20	0.67	1		10/08/10	MRD
1,3-Dichlorobenzene	ND	ug/L	0.20	0.67	1		10/08/10	MRD
1,3-Dichloropropane	ND	ug/L	0.20	0.67	1		10/08/10	MRD
1,4-Dichlorobenzene	ND	ug/L	0.80	2.70	1		10/08/10	MRD
2,2-Dichloropropane	ND	ug/L	1.00	3.30	1		10/08/10	MRD
2-Chlorotoluene	ND	ug/L	0.30	1.00	1		10/08/10	MRD
4-Chlorotoluene	ND	ug/L	0.30	1.00	1		10/08/10	MRD
4-Isopropyltoluene	ND	ug/L	0.40	1.33	1		10/08/10	MRD
Benzene	ND	ug/L	0.20	0.67	1		10/08/10	MRD
Bromobenzene	ND	ug/L	0.30	1.00	1		10/08/10	MRD
Bromochloromethane	ND	ug/L	0.40	1.30	1		10/08/10	MRD
Bromodichloromethane	ND	ug/L	0.40	1.30	1		10/08/10	MRD
Bromoform	ND	ug/L	0.20	0.67	1		10/08/10	MRD
Bromomethane	ND	ug/L	1.00	3.30	1		10/08/10	MRD
Butylbenzene	ND	ug/L	0.40	1.30	1		10/08/10	MRD
Carbon Tetrachloride	ND	ug/L	0.30	1.00	1		10/08/10	MRD
Chlorobenzene	ND	ug/L	0.20	0.67	1		10/08/10	MRD
Chloroethane	ND	ug/L	0.70	2.30	1		10/08/10	MRD
Chloroform	ND	ug/L	0.20	0.67	1		10/08/10	MRD
Chloromethane	ND	ug/L	0.40	1.30	1		10/08/10	MRD
cis-1,2-Dichloroethylene	ND	ug/L	0.40	1.30	1		10/08/10	MRD
cis-1,3-Dichloropropylene	ND	ug/L	0.20	0.67	1		10/08/10	MRD





Tetra Tech., Inc.  
1837 County Highway 00  
Chippewa Falls, WI 54729

PROJECT NO. : Konop Property 114-330854  
REPORT NO. : 1010105  
DATE REC'D: 10/06/10 15:30  
REPORT DATE : 10/18/10 08:34  
PREPARED BY : JRS

Attn: Michael Neal  
Sample ID: MW-12

Matrix: Ground Water

Sample Date/Time: 10/06/10 12:00

Lab No. : 1010105-11

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b><u>EPA 8260B Continued</u></b>								
Dibromochloromethane	ND	ug/L	0.40	1.30	1		10/08/10	MRD
Dibromomethane	ND	ug/L	0.40	1.30	1		10/08/10	MRD
Dichlorodifluoromethane	ND	ug/L	0.30	1.00	1		10/08/10	MRD
Ethylbenzene	ND	ug/L	0.20	0.67	1		10/08/10	MRD
Hexachlorobutadiene	ND	ug/L	1.00	3.30	1		10/08/10	MRD
Isopropylbenzene (Cumene)	ND	ug/L	0.20	0.67	1		10/08/10	MRD
m,p-Xylenes	1.17	ug/L	0.40	1.30	1	J	10/08/10	MRD
Methylene Chloride	ND	ug/L	0.40	1.30	1	CSH	10/08/10	MRD
Methyl-tert-Butyl Ether	ND	ug/L	0.50	1.70	1		10/08/10	MRD
Naphthalene	ND	ug/L	1.00	3.30	1		10/08/10	MRD
o-Xylene	0.22	ug/L	0.20	0.67	1	J	10/08/10	MRD
Propylbenzene	ND	ug/L	0.20	0.67	1		10/08/10	MRD
sec-Butylbenzene	ND	ug/L	0.30	1.00	1		10/08/10	MRD
Styrene	ND	ug/L	0.10	0.50	1		10/08/10	MRD
tert-Butylbenzene	ND	ug/L	0.30	1.00	1		10/08/10	MRD
Tetrachloroethene	ND	ug/L	0.30	1.00	1	CSH	10/08/10	MRD
Toluene	ND	ug/L	0.40	1.30	1		10/08/10	MRD
trans-1,2-Dichloroethylene	ND	ug/L	0.50	1.70	1		10/08/10	MRD
trans-1,3-Dichloropropylene	ND	ug/L	0.40	1.30	1		10/08/10	MRD
Trichloroethene	ND	ug/L	0.40	1.30	1		10/08/10	MRD
Trichlorofluoromethane	ND	ug/L	0.30	1.00	1		10/08/10	MRD
Vinyl chloride	ND	ug/L	0.20	0.67	1		10/08/10	MRD



Tetra Tech., Inc.  
 1837 County Highway 00  
 Chippewa Falls, WI 54729

PROJECT NO. : Konop Property 114-330854  
 REPORT NO. : 1010105  
 DATE REC'D: 10/06/10 15:30  
 REPORT DATE : 10/18/10 08:34  
 PREPARED BY : JRS

Attn: Michael Neal

Sample ID: PZ-7

Matrix: Ground Water

Sample Date/Time: 10/06/10 12:15

Lab No. : 1010105-12

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b>EPA 8260B</b>								
1,1,1,2-Tetrachloroethane	ND	ug/L	0.30	1.00	1		10/07/10	MRD
1,1,1-Trichloroethane	ND	ug/L	0.50	1.70	1		10/07/10	MRD
1,1,2,2-Tetrachloroethane	ND	ug/L	0.40	1.30	1		10/07/10	MRD
1,1,2-Trichloroethane	ND	ug/L	0.40	1.30	1		10/07/10	MRD
1,1-Dichloroethane	ND	ug/L	0.40	1.30	1		10/07/10	MRD
1,1-Dichloroethylene	ND	ug/L	0.40	1.30	1		10/07/10	MRD
1,1-Dichloropropylene	ND	ug/L	0.80	2.70	1		10/07/10	MRD
1,2,3-Trichlorobenzene	ND	ug/L	0.50	1.70	1		10/07/10	MRD
1,2,3-Trichloropropane	ND	ug/L	1.00	3.30	1		10/07/10	MRD
1,2,4-Trichlorobenzene	ND	ug/L	0.50	1.70	1		10/07/10	MRD
1,2,4-Trimethylbenzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
1,2-Dibromo-3-chloropropane	ND	ug/L	1.30	4.30	1		10/07/10	MRD
1,2-Dibromoethane	ND	ug/L	0.30	1.00	1		10/07/10	MRD
1,2-Dichlorobenzene	ND	ug/L	0.80	2.70	1		10/07/10	MRD
1,2-Dichloroethane	ND	ug/L	0.30	1.00	1		10/07/10	MRD
1,2-Dichloropropane	ND	ug/L	0.40	1.30	1		10/07/10	MRD
1,3,5-Trimethylbenzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
1,3-Dichlorobenzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
1,3-Dichloropropane	ND	ug/L	0.20	0.67	1		10/07/10	MRD
1,4-Dichlorobenzene	ND	ug/L	0.80	2.70	1		10/07/10	MRD
2,2-Dichloropropane	ND	ug/L	1.00	3.30	1		10/07/10	MRD
2-Chlorotoluene	ND	ug/L	0.30	1.00	1		10/07/10	MRD
4-Chlorotoluene	ND	ug/L	0.30	1.00	1		10/07/10	MRD
4-Isopropyltoluene	ND	ug/L	0.40	1.33	1		10/07/10	MRD
Benzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Bromobenzene	ND	ug/L	0.30	1.00	1		10/07/10	MRD
Bromochloromethane	ND	ug/L	0.40	1.30	1		10/07/10	MRD
Bromodichloromethane	ND	ug/L	0.40	1.30	1		10/07/10	MRD
Bromoform	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Bromomethane	ND	ug/L	1.00	3.30	1		10/07/10	MRD
Butylbenzene	ND	ug/L	0.40	1.30	1		10/07/10	MRD
Carbon Tetrachloride	ND	ug/L	0.30	1.00	1		10/07/10	MRD
Chlorobenzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Chloroethane	ND	ug/L	0.70	2.30	1		10/07/10	MRD
Chloroform	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Chloromethane	ND	ug/L	0.40	1.30	1	CSL	10/07/10	MRD
cis-1,2-Dichloroethylene	ND	ug/L	0.40	1.30	1		10/07/10	MRD
cis-1,3-Dichloropropylene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Dibromochloromethane	ND	ug/L	0.40	1.30	1		10/07/10	MRD
Dibromomethane	ND	ug/L	0.40	1.30	1		10/07/10	MRD
Dichlorodifluoromethane	ND	ug/L	0.30	1.00	1	CSL	10/07/10	MRD



Tetra Tech., Inc.  
 1837 County Highway 00  
 Chippewa Falls, WI 54729

PROJECT NO. : Konop Property 114-330854  
 REPORT NO. : 1010105  
 DATE REC'D: 10/06/10 15:30  
 REPORT DATE : 10/18/10 08:34  
 PREPARED BY : JRS

Attn: Michael Neal  
 Sample ID: PZ-7

Matrix: Ground Water

Sample Date/Time: 10/06/10 12:15

Lab No. : 1010105-12

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b><u>EPA 8260B Continued</u></b>								
Ethylbenzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Hexachlorobutadiene	ND	ug/L	1.00	3.30	1		10/07/10	MRD
Isopropylbenzene (Cumene)	ND	ug/L	0.20	0.67	1		10/07/10	MRD
m,p-Xylenes	ND	ug/L	0.40	1.30	1		10/07/10	MRD
Methylene Chloride	ND	ug/L	0.40	1.30	1		10/07/10	MRD
Methyl-tert-Butyl Ether	ND	ug/L	0.50	1.70	1		10/07/10	MRD
Naphthalene	ND	ug/L	1.00	3.30	1		10/07/10	MRD
o-Xylene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Propylbenzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
sec-Butylbenzene	ND	ug/L	0.30	1.00	1		10/07/10	MRD
Styrene	ND	ug/L	0.10	0.50	1		10/07/10	MRD
tert-Butylbenzene	ND	ug/L	0.30	1.00	1		10/07/10	MRD
Tetrachloroethene	ND	ug/L	0.30	1.00	1		10/07/10	MRD
Toluene	ND	ug/L	0.40	1.30	1		10/07/10	MRD
trans-1,2-Dichloroethylene	ND	ug/L	0.50	1.70	1		10/07/10	MRD
trans-1,3-Dichloropropylene	ND	ug/L	0.40	1.30	1		10/07/10	MRD
Trichloroethene	ND	ug/L	0.40	1.30	1		10/07/10	MRD
Trichlorofluoromethane	ND	ug/L	0.30	1.00	1		10/07/10	MRD
Vinyl chloride	ND	ug/L	0.20	0.67	1		10/07/10	MRD

Sample ID: Trip Blank

Matrix: Water

Sample Date/Time: 10/06/10 0:00

Lab No. : 1010105-13

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b><u>EPA 8260B</u></b>								
1,2,4-Trimethylbenzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
1,2-Dichloroethane	ND	ug/L	0.30	1.00	1		10/07/10	MRD
1,3,5-Trimethylbenzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Benzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Ethylbenzene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
m,p-Xylenes	ND	ug/L	0.40	1.30	1		10/07/10	MRD
Methyl-tert-Butyl Ether	ND	ug/L	0.50	1.70	1		10/07/10	MRD
Naphthalene	ND	ug/L	1.00	3.30	1		10/07/10	MRD
o-Xylene	ND	ug/L	0.20	0.67	1		10/07/10	MRD
Toluene	ND	ug/L	0.40	1.30	1		10/07/10	MRD



## Qualifier Descriptions

J	Estimated concentration below laboratory quantitation level.
CSL	Check standard for this analyte exhibited a low bias. Sample results may also be biased low.
CSH	Check standard for this analyte exhibited a high bias. Sample results may also be biased high.

## Definitions

LOD = Limit of Detection (Dilution Corrected)  
LOQ = Limit of Quantitation (Dilution Corrected)  
Reporting Limit = LOQ (Dilution Corrected)  
ND = Not Detected  
COMP = Complete  
SUBCON = Subcontracted analysis  
mv = millivolts  
pci/L = picocuries per Liter  
mL/L = milliliters per Liter  
mg = milligram

When the word "dry" follows the units on the result page the sample results are dry weight corrected.

LODs and LOQs are dry weight corrected for all soils except WI GRO and EPA 8021 methanol and WI DNR methylene chloride preserved soils.

ug/l = Micrograms per Liter = parts per billion (ppb)  
ug/kg = Micrograms per kilogram = parts per billion (ppb)  
mg/l = Milligrams per liter = parts per million (ppm)  
mg/kg = Milligrams per kilogram = parts per million (ppm)  
NOT PRES = Not Present  
ppth = Parts per thousand  
\* = Result outside established limits.  
mg/m<sup>3</sup> = Milligrams per meter cubed  
ng/L = Nanograms per Liter = Parts per trillion (ppt)  
> = Greater Than

Methanol Soils for WI GRO and EPA 8021 are reported to the LOQ.

Company Name <b>Tetra Tech</b>		Project <b>Konop Property 114-330854</b>	
Report Mailing Address <b>1837 CTH 00 CF, WI 54729</b>		Contact Name, Phone, Fax, Email <b>Michael Neal @ tetra.tech.com</b>	
Invoice Address <b>* SAME AS ABOVE</b>		Purchase Order # <b>114-330854</b>	Invoice Contact and Phone No.

Matrix: Drinking Water Groundwater Wastewater Soil/Solid Other: \_\_\_\_\_

Wis. PECFA Project subject to U&C? Yes No

For Compliance Monitoring? Yes No State: \_\_\_\_\_  
(If Yes, please specify Agency or Regulation) Agency/Reg.: \_\_\_\_\_

Turnaround Request:  Normal (10 Bus. Days)  
 Rush (Must be pre-approved by Lab and is subject to surcharges)  
Date Needed: \_\_\_\_\_

WO No. 1010105

Analyses Requested										Lab Use Only		
PVC + Naphthalen + 10 DCA FILTERED lead out 5 ppm										Delivered by	<u>Walk-in</u>	<u>Courier</u>
										Ship. Cont. OK?	<u>Y</u>	N NA
										Samples Leaking?	<u>Y</u>	<u>N</u> NA
										Seals OK?	<u>Y</u>	N NA
										Rec'd on Ice?	<u>Y</u>	N NA
	Sample Receiving Comments:										3.2	
	Comments										2 vials HCl	
											+ 1.250µl HN03	
										+ 1.250µl HN03		

Lab Use Only	Sample		No. of Containers		Sample ID
	Date	Time	Comp	Grab	
-1	10-6-10	9:10	/	3	MW-3
-2	10-6-10	8:55	/	3	PZ-3
-3	10-6-10	9:30	/	3	MW-10
-4	10-6-10	9:50	/	3	PZ-5
-5	10-6-10	10:35	/	3+1	MW-F
-6	10-6-10	10:15	/	3	PZ-4
-7	10-6-10	11:05	/	3+1	MW-8
-8	10-6-10	11:15	/	3	PZ-2

**Chain of Custody Record**

Relinquished By:	Date	Time	Received By:
<i>[Signature]</i>	10-6-10	3:30	
	10-6-10	1530	<i>[Signature]</i>

Company Name <b>Tetra Tech</b>	Project <b>Konop Property 114-330854</b>	
Report Mailing Address	Contact Name, Phone, Fax, Email <b>Michael.Neal@tetratech.com</b>	
Invoice Address	Purchase Order #	Invoice Contact and Phone No.

Matrix: Drinking Water Groundwater Wastewater Soil/Solid Other: \_\_\_\_\_

Wis. PECFA Project subject to U&C? Yes  No

For Compliance Monitoring? Yes  No  State: \_\_\_\_\_  
(If Yes, please specify Agency or Regulation) Agency/Reg.: \_\_\_\_\_

Turnaround Request:  Normal (10 Bus. Days)  
 Rush (Must be pre-approved by Lab and is subject to surcharges)  
Date Needed: \_\_\_\_\_

WO No. 1010105

Analyses Requested							Lab Use Only		
PVOCT-napthalene + 1,2-DCA lead 0.15 ppm VOCs							Delivered by	<u>Walk-in</u>	Courier
							Ship. Cont. Ok?	<input checked="" type="radio"/> Y	<input type="radio"/> N NA
							Samples Leaking?	<input checked="" type="radio"/> Y	<input type="radio"/> N NA
							Seals OK?	<input checked="" type="radio"/> Y	<input type="radio"/> N NA
							Rec'd on Ice?	<input checked="" type="radio"/> Y	<input type="radio"/> N NA
Sample Receiving Comments:							3.2		
Comments							3.2		

Lab Use Only	Sample		No. of Containers		Sample ID
	Date	Time	Comp	Grab	
-9	10-6-10	12:45	/	3	MW-11
-10	10-6-10	1:00	/	3+1	PZ-6
-11	10-6-10	12:00	/	3+1	MW-12
-12	10-6-10	12:15	/	3	PZ-7
-13	7/27/10	-	/	2	Trip Blank

3.2  
 ↓  
 7-24-10  
 ↑ 13159  
 HNO3

**Chain of Custody Record**

Relinquished By:	Date	Time	Received By:
<i>[Signature]</i>	10-6-10	3:30	
	10-6-10	1530	<i>[Signature]</i>



January 04, 2011

Tetra Tech., Inc.  
1837 County Highway 00  
Chippewa Falls, WI 54729

Attn: Michael Neal

**REPORT NO.: 1012308**

**PROJECT NO.: 114-330854**

Please find enclosed the analytical report, including the Sample Summary, Sample Narrative and Chain of Custody for your sample set received December 17, 2010.

All analyses were performed in accordance with NELAC Standards using approved methods as indicated on this report.

If you have any questions about the results, please call. Thank you for using Siemens Water Technologies for your analytical needs.

Sincerely,

Siemens Water Technologies

Bruce Schertz

Lab Manager

Enviroscan Analytical™ Services

Cc: Eric Oleson, Tetrattech

*I certify that the data contained in this report has been generated and reviewed in accordance with the Siemens Water Technologies Quality Assurance Program. Exceptions, if any, are discussed in the sample narrative. Samples will be retained for 30 days from the date of this report, then disposed in an appropriate manner. Siemens Water Technologies Corp. reserves the right to return samples identified as hazardous. Release of this Final Report is authorized as verified by the following signature. The contents of this report apply to the sample(s) analyzed. No duplication of this report is allowed except in its entirety.*

Reviewed by:

**Certifications:**

Wisconsin 737053130  
Minnesota 055-999-302  
Illinois 100317



Siemens Water Technologies Corp.

301 West Military Road  
Rothschild, WI 54474

Tel: 800-338-7226  
Fax: 715-355-3221

[www.siemens.com/enviroscan](http://www.siemens.com/enviroscan)



SAMPLE SUMMARY

<u>Lab Id</u>	<u>Client</u>	<u>Sample Id</u>	<u>Date/Time</u>	<u>Matrix</u>
1012308-01	PZ-4		12/15/10 10:00	Ground Water
1012308-02	MW-F		12/15/10 10:40	Ground Water
1012308-03	MW-12		12/15/10 11:40	Ground Water
1012308-04	PZ-7		12/15/10 12:40	Ground Water
1012308-05	Trip Blank		12/15/10 00:00	Water





Tetra Tech., Inc.  
1837 County Highway 00  
Chippewa Falls, WI 54729

PROJECT NO. : 114-330854  
REPORT NO. : 1012308  
DATE REC'D: 12/17/10 12:48  
REPORT DATE : 01/04/11 11:04  
PREPARED BY : BMS

Attn: Michael Neal

Sample ID: PZ-4

Matrix: Ground Water

Sample Date/Time: 12/15/10 10:00

Lab No. : 1012308-01

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b>EPA 8260B</b>								
1,2,4-Trimethylbenzene	324	ug/L	4.00	13.4	20		12/28/10	MRD
1,2-Dichloroethane	8.92	ug/L	6.00	20.0	20	J	12/28/10	MRD
1,3,5-Trimethylbenzene	206	ug/L	4.00	13.4	20		12/28/10	MRD
Benzene	520	ug/L	4.00	13.4	20		12/28/10	MRD
Ethylbenzene	67.3	ug/L	4.00	13.4	20		12/28/10	MRD
m,p-Xylenes	950	ug/L	8.00	26.0	20		12/28/10	MRD
Methyl-tert-Butyl Ether	ND	ug/L	10.0	34.0	20		12/28/10	MRD
Naphthalene	56.5	ug/L	20.0	66.0	20	J	12/28/10	MRD
o-Xylene	104	ug/L	4.00	13.4	20		12/28/10	MRD
Toluene	703	ug/L	8.00	26.0	20		12/28/10	MRD

Sample ID: MW-F

Matrix: Ground Water

Sample Date/Time: 12/15/10 10:40

Lab No. : 1012308-02

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b>EPA 8260B</b>								
1,2,4-Trimethylbenzene	1670	ug/L	40.0	134	200		12/29/10	MRD
1,2-Dichloroethane	ND	ug/L	60.0	200	200		12/29/10	MRD
1,3,5-Trimethylbenzene	1430	ug/L	40.0	134	200		12/29/10	MRD
Benzene	1550	ug/L	40.0	134	200		12/29/10	MRD
Ethylbenzene	2310	ug/L	40.0	134	200		12/29/10	MRD
m,p-Xylenes	7140	ug/L	80.0	260	200		12/29/10	MRD
Methyl-tert-Butyl Ether	ND	ug/L	100	340	200		12/29/10	MRD
Naphthalene	502	ug/L	200	660	200	J	12/29/10	MRD
o-Xylene	2820	ug/L	40.0	134	200		12/29/10	MRD
Toluene	8840	ug/L	80.0	260	200		12/29/10	MRD



Tetra Tech., Inc.  
 1837 County Highway 00  
 Chippewa Falls, WI 54729

PROJECT NO. : 114-330854  
 REPORT NO. : 1012308  
 DATE REC'D: 12/17/10 12:48  
 REPORT DATE : 01/04/11 11:04  
 PREPARED BY : BMS

Attn: Michael Neal  
 Sample ID: MW-12

Matrix: Ground Water

Sample Date/Time: 12/15/10 11:40

Lab No. : 1012308-03

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b>EPA 8260B</b>								
1,2,4-Trimethylbenzene	ND	ug/L	0.20	0.67	1		12/27/10	MPM
1,2-Dichloroethane	ND	ug/L	0.30	1.00	1		12/27/10	MPM
1,3,5-Trimethylbenzene	ND	ug/L	0.20	0.67	1		12/27/10	MPM
Benzene	ND	ug/L	0.20	0.67	1		12/27/10	MPM
Ethylbenzene	ND	ug/L	0.20	0.67	1		12/27/10	MPM
m,p-Xylenes	ND	ug/L	0.40	1.30	1		12/27/10	MPM
Methyl-tert-Butyl Ether	ND	ug/L	0.50	1.70	1		12/27/10	MPM
Naphthalene	ND	ug/L	1.00	3.30	1		12/27/10	MPM
o-Xylene	ND	ug/L	0.20	0.67	1		12/27/10	MPM
Toluene	ND	ug/L	0.40	1.30	1		12/27/10	MPM

Sample ID: PZ-7

Matrix: Ground Water

Sample Date/Time: 12/15/10 12:40

Lab No. : 1012308-04

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b>EPA 8260B</b>								
1,2,4-Trimethylbenzene	ND	ug/L	0.20	0.67	1		12/27/10	MPM
1,2-Dichloroethane	ND	ug/L	0.30	1.00	1		12/27/10	MPM
1,3,5-Trimethylbenzene	ND	ug/L	0.20	0.67	1		12/27/10	MPM
Benzene	ND	ug/L	0.20	0.67	1		12/27/10	MPM
Ethylbenzene	ND	ug/L	0.20	0.67	1		12/27/10	MPM
m,p-Xylenes	ND	ug/L	0.40	1.30	1		12/27/10	MPM
Methyl-tert-Butyl Ether	ND	ug/L	0.50	1.70	1		12/27/10	MPM
Naphthalene	ND	ug/L	1.00	3.30	1		12/27/10	MPM
o-Xylene	ND	ug/L	0.20	0.67	1		12/27/10	MPM
Toluene	ND	ug/L	0.40	1.30	1		12/27/10	MPM



Tetra Tech., Inc.  
1837 County Highway 00  
Chippewa Falls, WI 54729

PROJECT NO. : 114-330854  
REPORT NO. : 1012308  
DATE REC'D: 12/17/10 12:48  
REPORT DATE : 01/04/11 11:04  
PREPARED BY : BMS

Attn: Michael Neal  
Sample ID: Trip Blank

Matrix: Water

Sample Date/Time: 12/15/10 0:00

Lab No. : 1012308-05

	<u>Results</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<b><u>EPA 8260B</u></b>								
1,2,4-Trimethylbenzene	ND	ug/L	0.20	0.67	1		12/27/10	MPM
1,2-Dichloroethane	ND	ug/L	0.30	1.00	1		12/27/10	MPM
1,3,5-Trimethylbenzene	ND	ug/L	0.20	0.67	1		12/27/10	MPM
Benzene	ND	ug/L	0.20	0.67	1		12/27/10	MPM
Ethylbenzene	ND	ug/L	0.20	0.67	1		12/27/10	MPM
m,p-Xylenes	ND	ug/L	0.40	1.30	1		12/27/10	MPM
Methyl-tert-Butyl Ether	ND	ug/L	0.50	1.70	1		12/27/10	MPM
Naphthalene	ND	ug/L	1.00	3.30	1		12/27/10	MPM
o-Xylene	ND	ug/L	0.20	0.67	1		12/27/10	MPM
Toluene	ND	ug/L	0.40	1.30	1		12/27/10	MPM



## Qualifier Descriptions

J Estimated concentration below laboratory quantitation level.

## Definitions

LOD = Limit of Detection (Dilution Corrected)  
LOQ = Limit of Quantitation (Dilution Corrected)  
Reporting Limit = LOQ (Dilution Corrected)  
ND = Not Detected  
COMP = Complete  
SUBCON = Subcontracted analysis  
mv = millivolts  
pci/L = picocuries per Liter  
mL/L = milliliters per Liter  
mg = milligram

When the word "dry" follows the units on the result page the sample results are dry weight corrected.

LODs and LOQs are dry weight corrected for all soils except WI GRO and EPA 8021 methanol and WI DNR methylene chloride preserved soils.

ug/l = Micrograms per Liter = parts per billion (ppb)  
ug/kg = Micrograms per kilogram = parts per billion (ppb)  
mg/l = Milligrams per liter = parts per million (ppm)  
mg/kg = Milligrams per kilogram = parts per million (ppm)  
NOT PRES = Not Present  
ppth = Parts per thousand  
\* = Result outside established limits.  
mg/m<sup>3</sup> = Milligrams per meter cubed  
ng/L = Nanograms per Liter = Parts per trillion (ppt)  
> = Greater Than

Methanol Soils for WI GRO and EPA 8021 are reported to the LOQ.

Company Name <b>Tetra Tech</b>	Project <b>114-330854-</b>	
Report Mailing Address <b>1837 Cty. Hwy 00 Chippewa Falls WI.</b>	Contact Name, Phone, Fax, Email <b>Eric Olson eric.olson@tetratech.com</b>	
Invoice Address <b>"Some" 34729</b>	Purchase Order #	Invoice Contact and Phone No.

Matrix: Drinking Water  Groundwater Wastewater Soil/Solid Other: \_\_\_\_\_

Wis. PECFA Project subject to U&C?  Yes No

For Compliance Monitoring?  Yes No State: **WI**  
(If Yes, please specify Agency or Regulation) Agency/Reg.: **DNR**

Turnaround Request:  Normal (10 Bus. Days)  
 Rush (Must be pre-approved by Lab and is subject to surcharges)  
Date Needed: \_\_\_\_\_

WO No. 1012308

Analyses Requested	Lab Use Only		
	Delivered by:	Walk-in	Courier
PIC NADINA LOWE XXXX 112-DEA	Ship. Cont. OK?	<input checked="" type="radio"/> Y <input type="radio"/> N	NA
	Samples Leaking?	<input type="radio"/> Y <input checked="" type="radio"/> N	NA
	Seals OK?	<input checked="" type="radio"/> Y <input type="radio"/> N	NA
	Rec'd on Ice?	<input checked="" type="radio"/> Y <input type="radio"/> N	NA
	Sample Receiving Comments:	3.400	
Comments			
	3 vials HCL		
	↓		
	TS #161 11/11/10		

Speedi

Lab Use Only	Sample		No. of Containers		Sample ID
	Date	Time	Comp	Grab	
-01	12/15/10	10:00		✓	PZ-4
-02	↓	10:40		✓	MW-F
-03		11:40		✓	MW-12
-04	↓	12:40		✓	PZ-7
-05	↓				
			2		Trip Blank

Chain of Custody Record

Relinquished By:	Date	Time	Received By:
	12/16/10	5:00	
	12/17/10	12:48	

## Appendix D

### Mann – Kendall Statistical Test

**State of Wisconsin  
Department of Natural Resources  
Remediation and Redevelopment Program**

**Mann-Kendall Statistical Test  
Form 4400-215 (2/2001)**

**Notice:** This form is the DNR supplied spreadsheet referenced in Appendices A of Comm 46 and NR /46, Wis. Adm. Code. It is provided to consultants as an optional tool for groundwater contaminant trend analysis to support site closure requests under s. Comm 46.07, Comm 46.08, NR 746.07, NR 746.08, Wis. Adm. Code. Use this form or a manual method when seeking case closure under those rules. Earlier versions of this form should not be used.

**Instructions:** Do not change formulas or other information in cells with a blue background, only cells with a yellow background are used for data entry. To use the spreadsheet, provide at least four rounds and not more than ten rounds of data that is not seasonally affected. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" or "DATE ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at both 80 percent and 90 percent confidence levels. If a declining trend is present at 80 percent but not at 90 percent, a site is still eligible for closure under Comm 46 and NR 746 provided that other conditions in those rules are met. If an increasing or decreasing trend is not present, an additional coefficient of variation test is used to test for stability, as proposed by Wiedemeier et al, 1999. For additional information, refer to the Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name : Konop Property Site, Coleman, Wisconsin			BRRTS No. = 03-38-544783			Well Number = MW-F	
Compound ->		Benzene	Ethylbenzene	Toluene	TMB	Xylenes	
		Concentration	Concentration	Concentration	Concentration	Concentration	Concentration
Event Number	Sampling Date (most recent last)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)
1	1-Jun-02	7,400.00	2,600.00	18,000.00	2,150.00	11,200.00	
2	1-Sep-02	3,400.00	2,700.00	13,000.00	2,140.00	9,600.00	
3	1-Nov-03	2,400.00	230.00	9,200.00	1,670.00	8,300.00	
4	1-Oct-06	770.00	2,300.00	5,100.00	2,630.00	7,300.00	
5	1-Aug-07	803.00	292.00	2,660.00	823.00	3,420.00	
6	1-Nov-07	1,370.00	1,670.00	6,230.00	1,750.00	10,690.00	
7	1-Apr-08	2,910.00	2,960.00	12,800.00	2,305.00	10,060.00	
8	18-May-10	2,030.00	2,540.00	9,220.00	1,662.00	8,880.00	
9	6-Oct-10	1,690.00	2,060.00	9,150.00	1,700.00	8,400.00	
10	15-Dec-10	1,550.00	2,310.00	8,840.00	3,100.00	9,960.00	
Mann Kendall Statistic (S) =		-13.0	1.0	-13.0	1.0	-5.0	0.0
Number of Rounds (n) =		10	10	10	10	10	0
Average =		2432.30	1966.20	9420.00	1993.00	8781.00	#DIV/0!
Standard Deviation =		1940.257	966.123	4382.934	623.833	2223.923	#DIV/0!
Coefficient of Variation(CV)=		0.798	0.491	0.465	0.313	0.253	#DIV/0!
Error Check, Blank if No Errors Detected							n<4
Trend ≥ 80% Confidence Level		DECREASING	No Trend	DECREASING	No Trend	No Trend	n<4
Trend ≥ 90% Confidence Level		No Trend	No Trend	No Trend	No Trend	No Trend	n<4
Stability Test, If No Trend Exists at 80% Confidence Level		NA	CV ≤ 1 STABLE	NA	CV ≤ 1 STABLE	CV ≤ 1 STABLE	n<4 n<4
Data Entry By = mn			Date = 10-Jan-11		Checked By = EO		

**State of Wisconsin  
Department of Natural Resources  
Remediation and Redevelopment Program**

**Mann-Kendall Statistical Test  
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Site Name : Konop Property Site, Coleman, Wisconsin      BRRTS No. = 03-38-544783      Well Number = PZ-2

Compound ->		Benzene					
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	1-Sep-02	450.00					
2	1-Jan-03	450.00					
3	1-May-03	46.00					
4	1-Nov-03	460.00					
5	1-Oct-06	100.00					
6	1-Aug-07	9.00					
7	1-Nov-07	133.00					
8	1-Apr-08	39.60					
9	18-May-10	235.00					
10	6-Oct-10	377.00					

Mann Kendall Statistic (S) =	-6.0	0.0	0.0	0.0	0.0	0.0
Number of Rounds (n) =	10	0	0	0	0	0
Average =	229.96	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Standard Deviation =	187.555	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Coefficient of Variation(CV)=	0.816	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Error Check, Blank if No Errors Detected		n<4	n<4	n<4	n<4	n<4
Trend ≥ 80% Confidence Level	No Trend	n<4	n<4	n<4	n<4	n<4
Trend ≥ 90% Confidence Level	No Trend	n<4	n<4	n<4	n<4	n<4
Stability Test, If No Trend Exists at 80% Confidence Level	CV ≤ 1 STABLE	n<4	n<4	n<4	n<4	n<4

Data Entry By = mn      Date = 10-Jan-11      Checked By = EO



**State of Wisconsin  
Department of Natural Resources  
Remediation and Redevelopment Program**

**Mann-Kendall Statistical Test  
Form 4400-215 (2/2001)**

**Notice:** This form is the DNR supplied spreadsheet referenced in Appendices A or Comm 46 and NR 746, Wis. Adm. Code. It is provided to consultants as an optional tool for groundwater contaminant trend analysis to support site closure requests under s. Comm 46.07, Comm 46.08, NR 746.07, NR 746.08, Wis. Adm. Code. Use this form or a manual method when seeking case closure under those rules. Earlier versions of this form should not be used.

**Instructions:** Do not change formulas or other information in cells with a blue background, only cells with a yellow background are used for data entry. To use the spreadsheet, provide at least four rounds and not more than ten rounds of data that is not seasonally affected. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" or "DATE ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at both 80 percent and 90 percent confidence levels. If a declining trend is present at 80 percent but not at 90 percent, a site is still eligible for closure under Comm 46 and NR 746 provided that other conditions in those rules are met. If an increasing or decreasing trend is not present, an additional coefficient of variation test is used to test for stability, as proposed by Wiedemeier et al, 1999. For additional information, refer to the Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name : Konop Property Site, Coleman, Wisconsin      BRRTS No. = 03-38-544783      Well Number = PZ-4

Compound ->		Benzene	1,2-DCA	TMB			
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	1-Aug-07	132.00	3.00	253.00			
2	1-Nov-07	563.00		749.00			
3	1-Apr-08	869.00		944.00			
4	18-May-10	1,010.00	25.40	1,473.00			
5	6-Oct-10	941.00	7.50	860.00			
6	15-Dec-10	520.00	8.92	530.00			
7							
8							
9							
10							

Mann Kendall Statistic (S) =	5.0	2.0	3.0	0.0	0.0	0.0
Number of Rounds (n) =	6	4	6	0	0	0
Average =	672.50	11.21	801.50	#DIV/0!	#DIV/0!	#DIV/0!
Standard Deviation =	332.264	9.794	412.786	#DIV/0!	#DIV/0!	#DIV/0!
Coefficient of Variation(CV)=	0.494	0.874	0.515	#DIV/0!	#DIV/0!	#DIV/0!

Error Check, Blank if No Errors Detected				n<4	n<4	n<4
Trend ≥ 80% Confidence Level	No Trend	No Trend	No Trend	n<4	n<4	n<4
Trend ≥ 90% Confidence Level	No Trend	No Trend	No Trend	n<4	n<4	n<4
Stability Test, If No Trend Exists at 80% Confidence Level	CV ≤ 1 STABLE	CV ≤ 1 STABLE	CV ≤ 1 STABLE	n<4 n<4	n<4 n<4	n<4 n<4

Data Entry By = mn      Date = 10-Jan-11      Checked By = EO

**Appendix E**  
**NR 746 Risk Analysis**

## Konop Property Site NR 746 Risk Analysis

Wisconsin Administrative Code Chapter NR 746 was created to “measure the environmental, safety and health risks associated with petroleum contaminations, and to determine a required action level which could include, but not be limited to, adequate source control and measures to address environmental risk factors, or whether the site may be closed without additional action.” The following risks must be evaluated during a site investigation.

746.06(2)(a) – Do any of the following risks, as defined in NR 746 exist at this site?

- |   |   |  |                             |
|---|---|--|-----------------------------|
| 1. Documented expansion of plume margin?                                      | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | <input type="checkbox"/> NA |
| 2. Verified PAL exceedance in a private or public potable well?               | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | <input type="checkbox"/> NA |
| 3. Contamination within, or within 1 meter of, bedrock?                       | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | <input type="checkbox"/> NA |
| 4. More than 0.01 inches of free product during more than one sampling event? | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | <input type="checkbox"/> NA |
| 5. Documented contamination discharges to surface waters or wetlands?         | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | <input type="checkbox"/> NA |

746.06(2)(b) – Do soil contaminants exceed Table 1 levels?

Yes  No  NA

746.06(2)(c) – Is soil contamination within 4 feet of the ground surface present at concentrations exceeding Table 2 values?

Yes  No  NA

746.06(2)(d) – Have human health risks from direct contact been addressed for other contaminants of concern?

Yes  No  NA

746.06(2)(f) – Is the most recent petroleum release greater than 10 years?

Yes  No  NA

746.06(2)(g) – Is there evidence of petroleum product contaminant migration within a utility corridor or within a permeable material or soil along which vapors, free product, or contaminated water may flow?

Yes  No  NA

746.06(2)(h) – Is there evidence of migration or imminent migration of petroleum product contamination to building foundation drain tile, sumps or other points of entry into a basement or other enclosed structure where petroleum vapors could collect and create odors or an adverse impact on indoor air quality or where the contaminants may pose an explosion hazard?

Yes  No  NA

746.06(2)(i) – Is there an ES exceedance in any groundwater within 1,000 feet of a public utility well or 100 feet of any other well used to provide water for human consumption?

Yes  No  NA