

## **WBLP Delaware Limited Partnership**


### **Results of Groundwater Sample Collection August 2008**

Westbrook Shopping  
Center/Former Bask Dry Cleaners  
2136 E. Moreland Boulevard  
Waukesha, Wisconsin  
BRRTS Number 02-68-297669

September 2008

ARCADIS



  
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Project Manager

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## Introduction

The former Bask Dry Cleaners is located at 2136 East Moreland Boulevard in Waukesha, Wisconsin (the Site) (Figure 1). The former dry cleaner was located within a large strip mall (Westbrook Shopping Center). Previous investigations identified perchloroethene (PCE) contaminated soils primarily beneath the former dry cleaning building and an asphalt service drive located along the northern site boundary. The PCE contaminated soils were located in the vadose zone at a depth of approximately 10 to 20 feet below the land surface (ft bls). The groundwater was impacted with PCE, with the plume extending off-site to the north beneath residential properties on Capella Court (Figure 2). The concentrations of daughter products (trichloroethene, cis-1,2-dichloroethene, and vinyl chloride) were low, suggesting that little biodegradation had been occurring within the groundwater plume.

ARCADIS' July 6, 2006 proposed remedial action plan included operation of the soil vapor extraction (SVE) system to reduce the PCE mass in the vadose zone, post-remediation groundwater monitoring to support natural attenuation as a long-term remedy, and the use of institutional and engineering controls as part of the final closure. The groundwater PCE analytical data collected during the remedial investigation activities (through 2005), indicated stable to decreasing concentration trends. Thus, ARCADIS' proposal strategy was to remove contaminant mass in the soil, and document that the groundwater concentrations would continue to demonstrate stable or decreasing trends with time.

Between the time of the remedial investigation and completion of the soil vapor extraction system operation, the PCE concentration in the groundwater increased in Monitoring Wells MW-5 and MW-6. MW-5 is located on-site and MW-6 is located off-site approximately 110 feet north of the strip mall property boundary beneath residential properties on Capella Court. This increase in PCE concentration occurred during the time when significant PCE mass was being removed from the vadose zone through operation of the SVE system. In addition, the water levels have increased over three feet at most locations since remedial investigation data was collected in 2005.

ARCADIS believes that the change in depth to the shallow groundwater table was largely due to above-normal precipitation during the first half of 2008. Southeastern

Wisconsin experienced record snowfalls totaling more than 100 inches during the winter of 2008. In June 2008, parts of southeastern Wisconsin received over 7 inches of rain in a two-day period and over 13 inches of rain for the month. We believe that the rise in water levels resulting from this precipitation caused PCE that was formerly trapped within the vadose zone and capillary fringe to re-dissolve, thereby causing an increase in PCE concentrations in groundwater.

ARCADIS submitted a report to the Wisconsin Department of Natural Resources (WDNR) dated August 8, 2008, documenting the completion of 6 months of SVE and groundwater monitoring activities at the Site. The PCE contaminated soil within the recently-saturated vadose zone appears to be partitioning into the surrounding groundwater, resulting in higher PCE groundwater concentrations in the off-site portion of the plume. The increase in PCE groundwater concentrations does not support natural attenuation as a long-term remedy for groundwater, as was originally proposed for this project. ARCADIS recommends implementation of an active groundwater remediation strategy to address the dissolved phase PCE.

## Site Background

### Site Location and Description

The Westbrook Shopping Center is located at 2136 East Moreland Boulevard in Waukesha, Wisconsin. The former Bask Dry Cleaners tenant space is currently occupied by Milwaukee PC, a computer retail and service business. An asphalt drive is located between the building and the northern Site border. Residential properties are located further north, and the topography slopes downward north of the Site. The Site layout is illustrated on Figure 2.

The Sigma Group (Sigma) completed a site investigation from 2002 through 2005. The primary source of the PCE release appeared to be from a sanitary sewer located approximately 150 feet northwest of the former dry cleaner. Soil borings, monitoring wells and piezometers installed at the Site are shown on Figure 2. The soil analytical results obtained to date are summarized on Figure 3 and the groundwater analytical results to date are summarized in Table 1. The following bulleted list summarizes the pre-remediation Site conditions as documented from Sigma's investigation activities:

- Chlorinated volatile organic compounds-impacted soil (primarily PCE) was located beneath the former dry cleaner and beneath the asphalt service drive along a portion of the sanitary sewer (Figure 3). Impacted soil beneath the former dry

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cleaner was limited in extent, with the highest PCE concentration at 10 to 12 ft bls. Impacted soil beneath the asphalt service drive was defined to an approximate 2,200 square foot area, with the highest PCE concentrations at approximately 14 to 20 ft bls.

- The PCE-impacted groundwater extended north beneath residential properties on Capella Court. The data collected over a three year groundwater monitoring period (2002-2005) indicated decreasing concentration trends.
- The depth to the shallow groundwater table ranged from approximately 19 to 29 ft bls in the on-site wells and 7.5 to 15.5 ft bls in off-site wells. The difference in the depth to water is due in large part to the surface topography, which slopes downward off-site to the north beneath the residential dwellings. The shallow groundwater flow direction has been consistently north to northeast toward the residential properties on Capella Court.
- Groundwater flow velocities beneath the dry cleaner and within the source area were estimated to be 0.3 and 0.9 feet per day north, respectively.
- Piezometers PZ-1 through PZ-3 were installed to depths ranging from 45 and 60 ft bls and screened within the confining clay that underlies the saturated sand zone. Historical monitoring has indicated Piezometers PZ-2 and PZ-3 have generally been dry, with a small amount of groundwater observed in PZ-1. This data suggests that the underlying clay provides a barrier to vertical migration and represents the base of this water-bearing unit. The presence of an underlying aquitard would also indicate that the primary contaminant migration pathway through groundwater would be horizontal rather than vertical.
- A vapor intrusion study was completed as part of the investigation, and the analytical data were below United States Environmental Protection Agency screening criteria. Concentrations of PCE detected in the soil vapor samples did not warrant additional vapor sampling at the residential properties as part of the site investigation.

The WDNR issued a letter dated February 17, 2006 stating that the site investigation was complete.

## Remediation Activities

ARCADIS implemented the WDNR-approved SVE remedial strategy in October 2006. Five vapor extraction wells were installed and an SVE system was operated for a period of six months. More detailed information regarding the system operation is included in the ARCADIS report titled "*Remediation Progress Report and Pilot Test Work Plan*" dated August 8, 2008. The SVE system removed an estimated 18.7 pounds of VOCs from the vadose zone soils. The zone of vacuum influence from Vapor Extraction Well VE-2 encompassed the entire soil source area, extending downgradient to off-site Monitoring Well MW-6.

Groundwater analytical results from the February and June 2008 sampling events indicated that PCE concentrations in Monitoring Wells MW-4, MW-5, and MW-6 increased significantly from the pre-remedial conditions reported in October 2005 and March 2007. However, PCE concentrations were either stable or decreasing in the remaining monitoring wells.

## August Groundwater Sample Collection and Water level Measurements

In response to the ARCADIS "*Remedial Progress Report and Pilot Test Work Plan*", WDNR issued a letter dated August 19, 2008. The letter requested that the following activities be performed:

- Sample all of the groundwater monitoring wells for VOCs.
- Provide a brief report of the results including an updated historic groundwater analytical results table and historic groundwater elevation data table.
- Provide an evaluation of how the unexpected increase in contaminant concentrations affects potential receptors in the area of the Site.

In accordance with the WDNR letter, ARCADIS sampled the monitoring wells and piezometers across the study area on August 25, 2008. The wells and piezometers were sampled using low-flow sampling techniques similar to previous sample collection events. Prior to sampling, the depth to water at each well and piezometer was measured. A summary of the current and historical groundwater VOC analytical results are presented on Figure 4 and in Table 2. Table 3 presents a summary of the depth to water measurements collected from the site. The laboratory analytical report for this sample collection event is included in Appendix B.



The PCE concentration in MW-6 decreased during the remedial investigation monitoring from 215 micrograms per liter ( $\mu\text{g/L}$ ) in September 2003 to 35  $\mu\text{g/L}$  in October 2005. Since that time, this well has shown a steady increase in PCE concentration;

- 48  $\mu\text{g/L}$  in March 2007
- 270  $\mu\text{g/L}$  in February 2008
- 653  $\mu\text{g/L}$  in June 2008
- 1,250  $\mu\text{g/L}$  in August 2008

The last sample collection event conducted during the investigation showed a PCE concentration decrease in MW-5 (120  $\mu\text{g/L}$  in October 2005, down from 1,500  $\mu\text{g/L}$  during the previous sample collection event in March 2005). Since the October 2005 sample collection event, the PCE concentration in MW-5 has ranged from 1,840  $\mu\text{g/L}$  to 2,800  $\mu\text{g/L}$ , higher than almost any time during the remedial investigation. The PCE concentrations in MW-10 exceeded the enforcement standard of 5  $\mu\text{g/L}$  until June 2008, when the concentration decreased to 2.8  $\mu\text{g/L}$ . However, the PCE concentration increased to previous concentrations with the August 2008 sampling (10.2  $\mu\text{g/L}$ ).

ARCADIS prepared Mann-Kendall spreadsheets for Monitoring Wells MW-5, MW-6 and MW-10 (Appendix C). This statistical test was developed for petroleum products, but should be valid for chlorinated solvents when there is no significant accumulation of daughter products. The Mann-Kendall analysis indicates an increasing PCE trend at MW-5 and MW-6, and a stable trend at MW-10.

Monitoring Wells MW-5, MW-6 and MW-10 have contained PCE fairly consistently at concentrations exceeding the enforcement standard, and the concentrations at MW-5 and MW-6 have shown significant increases in 2008. It is important to note that all three of these monitoring wells are located off-site within a residential area.

The water table elevation appears to be decreasing after June 2008. This is consistent with the water table response during the drier summer months, and we would expect the water table to continue to lower through much of autumn. Figure 5 presents graphs showing depth to water and PCE concentration for Monitoring Wells MW-4, MW-5 and MW-6. The graphs also depict the soil analytical data collected at each of these locations. There appears to be a correlation between the water table passing through

contaminated soil and an increase in the groundwater PCE concentrations. Since there appears to be little biological activity at this Site, the concentrations likely will not decrease while the water levels remain at the current levels.

### Updated Receptor Analysis

The Site and surrounding area are serviced by the city of Waukesha municipal supply, and there are no drinking water wells within or immediately downgradient of the groundwater plume. Sigma noted that utilities likely would not act as receptors because the depth to the water table was greater than the depths of most utility corridors. This observation would appear to remain valid, although utilities beneath Capella Court may now be closer to the 2008 groundwater depths. The rise in the water table could result in an increased risk of vapor intrusion to the residential properties on Capella Court because the depth to water is closer to the lower levels of the residences, and the groundwater PCE concentrations have increased.

Chapter NR 726.05(2)(b) states that all sites that contain groundwater contamination exceeding enforcement standards must document that the following criteria are satisfied, including,

NR 726.05(1)(f). "The concentration and mass of a substance and its breakdown products in groundwater have been reduced due to naturally occurring physical, chemical and biological processes as necessary to adequately protect public health and the environment, and prevent groundwater contamination from migrating beyond the boundaries of the property or properties for which groundwater use restriction have been recorded..."

NR 726.05(2). "Natural attenuation will bring the groundwater into compliance with ch. NR 140 groundwater quality standards within a reasonable period of time, considering the criteria in s. NR722.07..."

NR 726.05(3). "The groundwater plume margin is stable or receding, and after case closure, groundwater contamination exceeding ch. NR 140 preventive action limits will not migrate beyond the boundaries of any property that ..." has a PAL exemption or for which a groundwater GIS has been registered.

Because of the significant increases in PCE concentration in MW-5 and MW-6 over time, and the absence of appreciable documented natural attenuation occurring at the Site, the potential for continued contaminant migration beyond the existing plume

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borders is high. The soil in the area is sand and silty sand, and appears to contain relatively low amounts of organic material, thus, there appears to be little natural ability to retard plume migration.

### **Conclusions and Recommendations**

The groundwater concentrations in the downgradient portion of the plume continue to demonstrate increasing concentrations, and there appears to be little potential for natural attenuation to remediate the existing groundwater plume, as evidenced by the low concentrations of daughter products and the increase in PCE concentrations after vadose zone mass was removed through soil vapor extraction.

ARCADIS recommends that groundwater remediation be implemented for this Site to reduce the off-site concentrations to a point where the mechanical process of natural attenuation (dilution, volatilization, dispersion) will remediate residual impacts. The previous submittal outlined our approach for implementing groundwater remediation.

Table 1. Summary of VOC Soil Analytical Results, West Brook Shopping Center/Former Bask Dry Cleaners, Waukesha, Wisconsin.

Name	NR 720			GP-1			GP-2		GP-3	
	NR 720 RCL-ES	NR 720 RCL-Ing	NR 720 RCL Inh. Volatiles	4-6'	10-12'	18-19.5'	4-6'	18-20'	2-4'	14-16'
Depth				04/09/02	04/10/02	04/09/02	04/09/02	04/09/02	04/09/02	04/09/02
Sample Date										
cis-1,2-Dichloroethene	27	156,000	--	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Ethylbenzene	770	1,560,000	2,000,000	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Methylene Chloride	--	--	--	<100	<100	<100	<100	<100	<100	<100
Tetrachloroethene	4.1	1,230	1,900	<u>861</u>	<b>2,590</b>	<u>391</u>	<u>340</u>	<u>232</u>	<25.0	<u>165</u>
Trichloroethene	3.7	160	13	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Xylenes, total	--	--	--	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0

All soil concentrations are in micrograms per kilogram.

NR 720 RCL-Ing NR 720 Residual contaminant levels (RCLs) for ingestion of soil, calculated using the EPA Soil Screening Level Website.

NR 720 RCL-ES NR 720 RCLs for soil to groundwater Enforcement Standard, calculated using the EPA Soil Screening Level Website.

NR 720 RCL-Inh Volatiles NR 720 RCLs for inhalation of soil volatiles, calculated using the EPA Soil Screening Level Website.

Underline Concentration exceeds NR 720 RCL-ES.

*Italic* Concentration exceeds NR 720 RCL-Inh. Volatiles.

**Bold** Concentration exceeds NR 720 RCL-Ing.

Q Concentration between the limit of detection (LOD) and the limit of quantitation (LOQ).

VOC Volatile organic compounds.

Table 1. Summary of VOC Soil Analytical Results, West Brook Shopping Center/Former Bask Dry Cleaners, Waukesha, Wisconsin.

Name	GP-4			GP-5		GP-6		GP-7	
	2-4'	6-8'	16-18'	10-12'	18-20'	12-14'	16-18'	10-12'	14-16'
Depth	2-4'	6-8'	16-18'	10-12'	18-20'	12-14'	16-18'	10-12'	14-16'
Sample Date	04/10/02	04/09/02	04/09/02	11/18/04	11/18/04	11/18/04	11/18/04	11/18/04	11/18/04
cis-1,2-Dichloroethene	<25.0	<25.0	<25.0	<27	<26	<27	<26	<28	<26
Ethylbenzene	<25.0	<25.0	<25.0	<27	<26	<27	<26	<28	<26
Methylene Chloride	<100	<100	<100	<54	<52	<54	<52	<55	<52
Tetrachloroethene	<u>87.1</u>	<u>230</u>	<u>900</u>	<u>464</u>	<b><u>6,100</u></b>	<b><u>7,280</u></b>	<b><u>2,290</u></b>	<u>375</u>	<b><u>1,440</u></b>
Trichloroethene	<25.0	<25.0	<25.0	<27	<26	<27	<26	<28	<26
Xylenes, total	<25.0	<25.0	<25.0	<38	<36	<38	<36	<39	<36

All soil concentrations are in micrograms per kilogram.

NR 720 RCL-Ing NR 720 Residual contaminant levels (RCLs) for ingestion of soil, calculated using the EPA Soil Screening Level Website.

NR 720 RCL-ES NR 720 RCLs for soil to groundwater Enforcement Standard, calculated using the EPA Soil Screening Level Website.

NR 720 RCL-Inh Volatiles NR 720 RCLs for inhalation of soil volatiles, calculated using the EPA Soil Screening Level Website.

Underline Concentration exceeds NR 720 RCL-ES.

*Italic* Concentration exceeds NR 720 RCL-Inh. Volatiles.

**Bold** Concentration exceeds NR 720 RCL-Ing.

Q Concentration between the limit of detection (LOD) and the limit of quantitation (LOQ).

VOC Volatile organic compounds.

Table 1. Summary of VOC Soil Analytical Results, West Brook Shopping Center/Former Bask Dry Cleaners, Waukesha, Wisconsin.

Name	GP-8		GP-9		HA-1	HA-2	MW-1		
	12-14'	16-18'	12-14'	16-18'	1-2'	3-4'	4-6'	12-14'	24-26'
Depth	11/18/04	11/18/04	11/18/04	11/18/04	02/22/02	02/22/02	05/08/02	05/08/02	05/08/02
cis-1,2-Dichloroethene	<27	<26	<u>452</u>	<26	<25.0	<25.0	<25.0	<25.0	<25.0
Ethylbenzene	<27	<26	<27	<26	<25.0	<25.0	<25.0	<25.0	<25.0
Methylene Chloride	<53	<52	<54	<52	<100	<100	<100	<100	<100
Tetrachloroethene	<u>578</u>	<b><u>8,640</u></b>	<u>785</u>	<b><u>3,850</u></b>	<25.0	<u>133</u>	<25.0	<25.0	<25.0
Trichloroethene	<27	<26	<u>28</u>	<26	<25.0	<25.0	<25.0	<25.0	<25.0
Xylenes, total	<37	<36	<38	<36	<25.0	<25.0	<25.0	<25.0	<25.0

All soil concentrations are in micrograms per kilogram.

NR 720 RCL-Ing NR 720 Residual contaminant levels (RCLs) for ingestion of soil, calculated using the EPA Soil Screening Level Website.

NR 720 RCL-ES NR 720 RCLs for soil to groundwater Enforcement Standard, calculated using the EPA Soil Screening Level Website.

NR 720 RCL-Inh Volatiles NR 720 RCLs for inhalation of soil volatiles, calculated using the EPA Soil Screening Level Website.

Underline Concentration exceeds NR 720 RCL-ES.

*Italic* Concentration exceeds NR 720 RCL-Inh. Volatiles.

**Bold** Concentration exceeds NR 720 RCL-Ing.

Q Concentration between the limit of detection (LOD) and the limit of quantitation (LOQ).

VOC Volatile organic compounds.

Table 1. Summary of VOC Soil Analytical Results, West Brook Shopping Center/Formers Bask Dry Cleaners, Waukesha, Wisconsin.

Name	MW-2			MW-3			MW-4			MW-5	
	2-4'	14-16'	24-26'	4-6'	12-14'	20-22'	1-3'	11-13'	17-21'	14-16'	18-20'
Depth	05/08/02	05/08/02	05/08/02	05/08/02	05/08/02	05/08/02	10/23/02	10/23/02	10/23/02	07/24/03	07/24/03
Sample Date	05/08/02	05/08/02	05/08/02	05/08/02	05/08/02	05/08/02	10/23/02	10/23/02	10/23/02	07/24/03	07/24/03
cis-1,2-Dichloroethene	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Ethylbenzene	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Methylene Chloride	<100	<100	<100	<100	<100	<100	<100	<100	<100	<25.0	<25.0
Tetrachloroethene	<25.0	<25.0	<25.0	<25.0	<25.0	<u>218</u>	<25.0	<u>641</u>	<u>710</u>	<u>638</u>	<b>4,470</b>
Trichloroethene	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Xylenes, total	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	30.1

All soil concentrations are in micrograms per kilogram.

NR 720 RCL-Ing NR 720 Residual contaminant levels (RCLs) for ingestion of soil, calculated using the EPA Soil Screening Level Website.

NR 720 RCL-ES NR 720 RCLs for soil to groundwater Enforcement Standard, calculated using the EPA Soil Screening Level Website.

NR 720 RCL-Inh Volatiles NR 720 RCLs for inhalation of soil volatiles, calculated using the EPA Soil Screening Level Website.

Underline Concentration exceeds NR 720 RCL-ES.

*Italic* Concentration exceeds NR 720 RCL-Inh. Volatiles.

**Bold** Concentration exceeds NR 720 RCL-Ing.

Q Concentration between the limit of detection (LOD) and the limit of quantitation (LOQ).

VOC Volatile organic compounds.

Table 1. Summary of VOC Soil Analytical Results, West Brook Shopping Center/Former Bask Dry Cleaners, Waukesha, Wisconsin.

Name	MW-6		MW-7		MW-8		MW-9		MW-10	
	6-8'	12-14'	1-3'	19-21'	1-3'	9-11'	1-3'	7-9'	1-3'	7-9'
Depth	07/24/03	07/24/03	06/24/04	06/24/04	06/24/04	06/24/04	06/25/04	06/25/04	06/25/04	06/25/04
cis-1,2-Dichloroethene	<25.0	<25.0	<31	<28	<29	<27	<28	<28	<27	<27
Ethylbenzene	<25.0	<25.0	<31	<28	<29	<27	<28	<28	<27	<27
Methylene Chloride	<25.0	<25.0	<62	<55	<59	<53	<55	<55	<54	<53
Tetrachloroethene	<25.0	<u>124</u>	<31	<u>74</u>	<29	<27	<28	<28	<27	<27
Trichloroethene	<25.0	<25.0	<31	<28	<29	<27	<28	<28	<27	<27
Xylenes, total	<25.0	<25.0	<44	<39	<41	<37	<39	<39	<38	<37

All soil concentrations are in micrograms per kilogram.

NR 720 RCL-Ing NR 720 Residual contaminant levels (RCLs) for ingestion of soil, calculated using the EPA Soil Screening Level Website.

NR 720 RCL-ES NR 720 RCLs for soil to groundwater Enforcement Standard, calculated using the EPA Soil Screening Level Website.

NR 720 RCL-Inh Volatiles NR 720 RCLs for inhalation of soil volatiles, calculated using the EPA Soil Screening Level Website.

Underline Concentration exceeds NR 720 RCL-ES.

*Italic* Concentration exceeds NR 720 RCL-Inh. Volatiles.

**Bold** Concentration exceeds NR 720 RCL-Ing.

Q Concentration between the limit of detection (LOD) and the limit of quantitation (LOQ).

VOC Volatile organic compounds.



**Table 1. Summary of VOC Soil Analytical Results, West Brook Shopping Center/Former Bask Dry Cleaners, Waukesha, Wisconsin.**

Name	MW-12		MW-13	PZ-2	PZ-3	VE-1		VE-2	
	2-4'	24-26'	12-14'	17-19'	9-11'	6-8'	14-16'	0-2'	16-18'
Depth	2-4'	24-26'	12-14'	17-19'	9-11'	6-8'	14-16'	0-2'	16-18'
Sample Date	10/20/06	10/20/06	11/06/06	01/04/05	01/10/05	10/20/06	10/20/06	10/20/06	10/20/06
cis-1,2-Dichloroethene	<29	<30	<29	<26	<27	<28	<27	<28	<26
Ethylbenzene	<29	<30	<29	<26	<27	<28	<27	<28	56
Methylene Chloride	<59	64	<59	<52	<54	<55	<53	<56	90
Tetrachloroethene	<29	<30	<u>87</u>	<b>3,310</b>	<27	<u>45</u>	<u>730</u>	<u>71</u>	<b>4,400</b>
Trichloroethene	<29	<30	<29	<26	<27	<28	<27	<28	<26
Xylenes, total	<100	<100	<100	<36	<38	<94	<91	<96	320

All soil concentrations are in micrograms per kilogram.

NR 720 RCL-Ing NR 720 Residual contaminant levels (RCLs) for ingestion of soil, calculated using the EPA Soil Screening Level Website.

NR 720 RCL-ES NR 720 RCLs for soil to groundwater Enforcement Standard, calculated using the EPA Soil Screening Level Website.

NR 720 RCL-Inh Volatiles NR 720 RCLs for inhalation of soil volatiles, calculated using the EPA Soil Screening Level Website.

Underline Concentration exceeds NR 720 RCL-ES.

*Italic* Concentration exceeds NR 720 RCL-Inh. Volatiles.

**Bold** Concentration exceeds NR 720 RCL-Ing.

Q Concentration between the limit of detection (LOD) and the limit of quantitation (LOQ).

VOC Volatile organic compounds.

**Table 1. Summary of VOC Soil Analytical Results, West Brook Shopping Center/Former Bask Dry Cleaners, Waukesha, Wisconsin.**

Name	VE-3		VE-4		VE-5	
	12-14'	12-14'	14-16'	14-16'	14-16'	14-16'
Depth	12-14'	12-14'	14-16'	14-16'	14-16'	14-16'
Sample Date	03/28/07	03/28/07	03/28/07	03/28/07	03/28/07	03/28/07
cis-1,2-Dichloroethene	<27	<27	<27	<27	<26	<26
Ethylbenzene	<27	<27	<27	<27	<26	<26
Methylene Chloride	<53	<54	<54	<54	<53	<53
Tetrachloroethene	<u>310</u>	<u>270</u>	<b><u>1,900</u></b>	<b><u>1,500</u></b>		
Trichloroethene	<27	<27	<27	<27	<26	<26
Xylenes, total	<90	<91	<92	<92	<90	<90

All soil concentrations are in micrograms per kilogram.

NR 720 RCL-Ing NR 720 Residual contaminant levels (RCLs) for ingestion of soil, calculated using the EPA Soil Screening Level Website.

NR 720 RCL-ES NR 720 RCLs for soil to groundwater Enforcement Standard, calculated using the EPA Soil Screening Level Website.

NR 720 RCL-Inh Volatiles NR 720 RCLs for inhalation of soil volatiles, calculated using the EPA Soil Screening Level Website.

Underline Concentration exceeds NR 720 RCL-ES.

*Italic* Concentration exceeds NR 720 RCL-Inh. Volatiles.

**Bold** Concentration exceeds NR 720 RCL-Ing.

Q Concentration between the limit of detection (LOD) and the limit of quantitation (LOQ).

VOC Volatile organic compounds.

**Table 2. Summary of Groundwater Analytical Results, West Brook Shopping Center/Former Bask Dry Cleaners, Waukesha, Wisconsin.**

Monitoring Well	MW-1										
	Sample Date	ES	PAL	05/16/02	07/11/02	10/31/02	12/17/03	07/15/04	03/23/05	10/19/05	06/19/08
Benzene	5	0.5	<0.500	<0.500	<0.500	<0.352	<0.20	<0.20	<0.20	<0.41	<0.41
Chloroform	6	0.6	<0.140	<0.140	<0.140	<0.463	<0.20	<0.20	<0.20	<0.37	<0.37
Chloromethane	3	0.3	<0.600	<0.600	<0.600	<0.920	<0.20	<0.20	0.23	<0.24	<0.24
cis-1,2-Dichloroethene	70	7	<0.500	<0.500	<0.500	<5.00	<0.50	<0.50	<0.50	<0.83	<0.83
trans-1,2-Dichloroethene	100	20	<0.500	<0.500	<0.500	<5.00	<0.50	<0.50	<0.50	<0.89	<0.89
Naphthalene	100	10	<2.00	<2.00	<2.00	<8.00	<0.25	<0.25	<0.25	<0.74	<0.74
Tetrachloroethene	5	0.5	<0.500	<0.500	<0.500	<0.479	<0.50	<0.50	<0.50	<0.45	<0.45
Toluene	1,000	200	<0.500	<0.500	<0.500	<5.00	<0.20	<0.20	<0.20	<0.67	<0.67
1,1,1-Trichloroethane	200	40	<0.500	<0.500	<0.500	<5.00	<0.50	<0.50	<0.50	<0.9	<0.9
Trichloroethene	5	0.5	<0.500	<0.500	<0.500	<0.396	<0.20	<0.20	<0.20	<0.48	<0.48

All results reported in micrograms per liter (µg/L).

The ES and PAL are given in Chapter NR 140 Wisconsin Administrative Code.

- DUP Duplicate Sample.
- ES Enforcement Standard.
- PAL Preventative Action Limit.
- BOLD** Value exceeds the ES.
- Value exceeds the PAL.

**Table 2. Summary of Groundwater Analytical Results, West Brook Shopping Center/Former Bask Dry Cleaners, Waukesha, Wisconsin.**

Monitoring Well Sample Date	MW-2									MW-3
	05/16/02	07/11/02	10/31/02	12/17/03	07/15/04	03/23/05	10/19/05	06/19/08	08/25/08	05/16/02
Benzene	<0.500	<0.500	<0.500	<0.352	<0.20	<0.20	<0.20	<0.41	<0.41	<0.500
Chloroform	<0.140	<0.140	<0.140	<0.463	<0.20	<0.20	<0.20	<0.37	<0.37	<0.140
Chloromethane	<0.600	<0.600	<0.600	<0.920	<0.20	<0.20	<b>0.31</b>	<0.24	<0.24	<0.600
cis-1,2-Dichloroethene	<0.500	<0.500	<0.500	<5.00	<0.50	<0.50	<0.50	<0.83	<0.83	<0.500
trans-1,2-Dichloroethene	<0.500	<0.500	<0.500	<5.00	<0.50	<0.50	<0.50	<0.89	<0.89	<0.500
Naphthalene	<2.00	<2.00	<2.00	<8.00	<0.25	<0.25	<0.25	<0.74	<0.74	<2.00
Tetrachloroethene	<0.500	<0.500	<0.500	<0.479	<0.50	<0.50	<0.50	<0.45	<0.45	<0.500
Toluene	<0.500	<0.500	<0.500	<5.00	<0.20	<0.20	<0.20	<0.67	<0.67	<0.500
1,1,1-Trichloroethane	<0.500	<0.500	<0.500	<5.00	<0.50	<0.50	<0.50	<0.9	<0.9	<0.500
Trichloroethene	<0.500	<0.500	<0.500	<0.396	<0.20	<0.20	<0.20	<0.48	<0.48	<0.500

All results reported in micrograms per liter (µg/L).

The ES and PAL are given in Chapter NR 140 Wisconsin Administrative Code.

- DUP Duplicate Sample.
- ES Enforcement Standard.
- PAL Preventative Action Limit.

<b>BOLD</b>	Value exceeds the ES.
	Value exceeds the PAL.

**Table 2. Summary of Groundwater Analytical Results, West Brook Shopping Center/Former Bask Dry Cleaners, Waukesha, Wisconsin.**

Monitoring Well Sample Date	MW-3 (continued)								MW-4	
	07/11/02	10/31/02	12/17/03	07/15/04	03/23/05	10/19/05	06/19/08	08/26/08	10/31/02	12/17/03
Benzene	<0.500	<0.500	<0.352	<0.20	<0.20	<0.20	<0.41	<0.41	<0.500	<0.352
Chloroform	<0.140	<0.140	<0.463	<0.20	<0.20	<0.20	<0.37	<0.37	<0.140	<0.463
Chloromethane	<0.600	<0.600	<0.920	<0.20	<0.20	0.86	<0.24	<0.24	<0.600	<0.920
cis-1,2-Dichloroethene	<0.500	<0.500	<5.00	<0.50	<0.50	<0.50	<0.83	<0.83	<0.500	<5.00
trans-1,2-Dichloroethene	<0.500	<0.500	<5.00	<0.50	<0.50	<0.50	<0.89	<0.89	<0.500	<5.00
Naphthalene	<2.00	<2.00	<8.00	<0.25	0.26	<0.25	<0.74	<0.74	<2.00	<8.00
Tetrachloroethene	<0.500	0.599	10.8	0.88	<0.50	<0.50	<0.45	<0.45	19.9	4.83
Toluene	<0.500	<0.500	<5.00	0.22	<0.20	<0.20	<0.67	<0.67	<0.500	<5.00
1,1,1-Trichloroethane	<0.500	<0.500	<5.00	<0.50	<0.50	<0.50	<0.9	<0.9	<0.500	<5.00
Trichloroethene	<0.500	<0.500	<0.396	<0.20	<0.20	<0.20	<0.48	<0.48	<0.500	<0.396

All results reported in micrograms per liter (µg/L).

The ES and PAL are given in Chapter NR 140 Wisconsin Administrative Code.

- DUP Duplicate Sample.
- ES Enforcement Standard.
- PAL Preventative Action Limit.
- BOLD** Value exceeds the ES.
- Value exceeds the PAL.

**Table 2. Summary of Groundwater Analytical Results, West Brook Shopping Center/Former Bask Dry Cleaners, Waukesha, Wisconsin.**

Monitoring Well Sample Date	MW-4 (continued)						MW-5				
	07/15/04	03/23/05	10/19/05	02/01/08	06/19/08	08/27/08	09/08/03	12/17/03	07/15/04	03/23/05	10/19/05
Benzene	0.2	<0.20	<0.20	<0.41	<0.41	<0.41	<0.500	<0.352	<0.20	<0.20	<0.20
Chloroform	<0.20	<0.20	<0.20	<0.37	<0.37	<0.37	<0.140	<0.463	<0.20	<0.20	<0.20
Chloromethane	<0.20	<0.20	<0.20	<0.24	<0.24	<0.24	<0.600	<0.920	<0.20	<0.20	1.2
cis-1,2-Dichloroethene	1.7	0.94	<0.50	<0.83	<0.83	<0.83	<b>164</b>	<b>200</b>	<b>580</b>	<b>270</b>	57
trans-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.89	<0.89	<0.89	3.01	<5.00	14	12	<0.50
Naphthalene	<0.25	<0.25	<0.25	<0.74	<0.74	<0.74	<2.00	<8.00	<0.25	<0.25	<0.25
Tetrachloroethene	<b>3</b>	<0.50	<0.50	1.1	<b>217</b>	0.96	<b>517</b>	<b>1,180</b>	<b>3,100</b>	<b>1,500</b>	<b>120</b>
Toluene	0.4	<0.20	<0.20	<0.67	<0.67	<0.67	<0.500	<5.00	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	<0.50	<0.50	<0.50	<0.90	<0.9	<0.9	<0.500	<5.00	<0.50	<0.50	<0.50
Trichloroethene	<0.20	<0.20	<0.20	<0.48	<0.48	<0.48	<b>14.1</b>	<b>27.7</b>	<b>42</b>	<b>23</b>	4.7

All results reported in micrograms per liter (µg/L).

The ES and PAL are given in Chapter NR 140 Wisconsin Administrative Code.

- DUP Duplicate Sample.
- ES Enforcement Standard.
- PAL Preventative Action Limit.

<b>BOLD</b>	Value exceeds the ES.
	Value exceeds the PAL.

**Table 2. Summary of Groundwater Analytical Results, West Brook Shopping Center/Former Bask Dry Cleaners, Waukesha, Wisconsin.**

Monitoring Well Sample Date	MW-5 (continued)		DUP	MW-6					MW-6 (DUP)		
	02/01/08	06/12/08	08/27/08	08/27/08	09/08/03	12/17/03	07/15/04	03/23/05	10/19/05	03/21/07	03/21/07
Benzene	<8.2	<8.2	<10.2	<16.4	<0.500	<0.352	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform	<7.4	<7.4	<32.5	<52	<0.140	<0.463	<0.20	<0.20	<0.20	<0.20	<0.20
Chloromethane	<4.8	<4.8	<6.0	<9.6	<0.600	<0.920	<0.20	<0.20	0.27	<0.20	<0.20
cis-1,2-Dichloroethene	<b>100</b>	54.6	<20.8	<32.2	10.5	13	7.1	11	5.1	29	29
trans-1,2-Dichloroethene	<18	<17.8	<22.2	<35.6	<0.500	<5.00	<0.50	<0.50	<0.50	0.77	<0.50
Naphthalene	<15	<14.8	<22.2	<35.6	<2.00	<8.00	<0.25	<0.25	<0.25	<0.25	<0.25
Tetrachloroethene	<b>2,800</b>	<b>1840</b>	<b>2,270</b>	<b>2,050</b>	<b>215</b>	<b>197</b>	<b>65</b>	<b>59</b>	<b>35</b>	<b>48</b>	<b>51</b>
Toluene	<13	<13.4	<16.8	<26.8	<0.500	<5.00	0.29	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	<18	<18	<22.5	<36	<0.500	<5.00	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	<b>18</b>	<b>16.7 J</b>	<12.0	<19.2	2.9	2.57	1.9	2.8	2.6	2.9	3

All results reported in micrograms per liter (µg/L).

The ES and PAL are given in Chapter NR 140 Wisconsin Administrative Code.

- DUP Duplicate Sample.
- ES Enforcement Standard.
- PAL Preventative Action Limit.

<b>BOLD</b>	Value exceeds the ES.
	Value exceeds the PAL.

**Table 2. Summary of Groundwater Analytical Results, West Brook Shopping Center/Former Bask Dry Cleaners, Waukesha, Wisconsin.**

Monitoring Well Sample Date	MW-6 (continued)			MW-7						MW-8
	02/01/08	06/12/08	08/27/08	07/15/04	03/23/05	10/19/05	02/01/08	06/12/08	08/26/08	07/15/04
Benzene	<0.41	<2	<4.1	<0.20	<0.20	<0.20	<0.41	<0.41	<0.41	<0.20
Chloroform	<1.8	<1.8	<13.0	<0.20	<0.20	<0.20	<0.37	<0.37	<0.37	<0.20
Chloromethane	<0.24	<1.2	<2.4	<0.20	<0.20	1.3	<0.24	<0.24	<0.24	<0.20
cis-1,2-Dichloroethene	69	44.5	28.0	3.4	13	14	2.0	2.5	<0.83	<0.50
trans-1,2-Dichloroethene	1.4	<4.4	<8.9	<0.50	<0.50	<0.50	<0.89	<0.89	<0.89	<0.50
Naphthalene	<0.74	<3.7	<8.9	<0.25	<0.25	<0.25	<0.74	<0.74	<0.74	<0.25
Tetrachloroethene	270	653	1,250	35	71	71	84	48.5	37.2	<0.50
Toluene	<0.67	<3.4	<6.7	0.29	<0.20	<0.20	<0.67	<0.67	<0.67	<0.20
1,1,1-Trichloroethane	<0.90	<4.5	<9.0	<0.50	<0.50	<0.50	<0.90	<0.9	<0.9	<0.50
Trichloroethene	8.2	8.9	10.6	5.4	4.6	3.2	2.9	4.7	1.2	<0.20

All results reported in micrograms per liter (µg/L).

The ES and PAL are given in Chapter NR 140 Wisconsin Administrative Code.

- DUP Duplicate Sample.
- ES Enforcement Standard.
- PAL Preventative Action Limit.

<b>BOLD</b>	Value exceeds the ES.
	Value exceeds the PAL.



**Table 2. Summary of Groundwater Analytical Results, West Brook Shopping Center/Former Bask Dry Cleaners, Waukesha, Wisconsin.**

Monitoring Well Sample Date	MW-8 (continued)					MW-9				
	03/23/05	10/19/05	03/21/07	06/19/08	08/26/08	07/15/04	03/23/05	10/19/05	06/19/08	08/26/08
Benzene	<0.20	<0.20	<0.20	<0.41	<0.41	<0.20	<0.20	<0.20	<0.41	<0.41
Chloroform	<0.20	<0.20	<0.20	<0.37	<0.37	<0.20	<0.20	<0.20	<0.37	<0.37
Chloromethane	<0.20	<b>0.73</b>	<0.20	<0.24	<0.24	<b>0.36</b>	<0.20	0.22	<0.24	<0.24
cis-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.83	<0.83	<0.50	<0.50	<0.50	<0.83	<0.83
trans-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.89	<0.89	<0.50	<0.50	<0.50	<0.89	<0.89
Naphthalene	<0.25	<0.25	<0.25	<0.74	<0.74	<0.25	<0.25	<0.25	<0.74	<0.74
Tetrachloroethene	<0.50	<b>1.4</b>	<0.50	<0.45	<0.45	<0.50	<0.50	<0.50	<0.45	<0.45
Toluene	<0.20	<0.20	<0.20	<0.67	<0.67	0.31	<0.20	<0.20	<0.67	<0.67
1,1,1-Trichloroethane	<0.50	1.1	<0.50	<0.9	<0.9	0.71	<0.50	<0.50	<0.9	<0.9
Trichloroethene	<0.20	<b>1.3</b>	<0.20	<0.48	<0.48	<0.20	<0.20	<0.20	<0.48	<0.48

All results reported in micrograms per liter (µg/L).

The ES and PAL are given in Chapter NR 140 Wisconsin Administrative Code.

- DUP Duplicate Sample.
- ES Enforcement Standard.
- PAL Preventative Action Limit.
- BOLD** Value exceeds the ES.
- Value exceeds the PAL.

Table 2. Summary of Groundwater Analytical Results, West Brook Shopping Center/Former Bask Dry Cleaners, Waukesha, Wisconsin.

Monitoring Well Sample Date	MW-10			(DUP)			MW-11			
	07/15/04	03/23/05	10/19/05	03/21/07	06/19/08	06/19/08	08/26/08	10/19/05	06/19/08	08/26/08
Benzene	<0.20	<0.20	<0.20	<0.20	<0.41	<0.41	<0.41	<0.20	<0.41	<0.41
Chloroform	<0.20	<0.20	<0.20	<0.20	<0.37	<0.37	<0.37	<0.20	<0.37	<0.37
Chloromethane	<0.20	<0.20	<0.20	<0.20	<0.24	<0.24	<0.24	0.48	<0.24	<0.24
cis-1,2-Dichloroethene	0.96	2.6	5.7	1.7	<0.83	<0.83	2.6	<0.50	<0.83	<0.83
trans-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.50	<0.89	<0.89	<0.89	<0.50	<0.89	<0.89
Naphthalene	<0.25	<0.25	<0.25	<0.25	<0.74	<0.74	<0.74	<0.25	<0.74	<0.74
Tetrachloroethene	9.1	7.5	11	11	2.8	2.5	10.2	<0.50	6.5	1.7
Toluene	0.26	0.24	<0.20	<0.20	<0.67	<0.67	<0.67	<0.20	<0.67	<0.67
1,1,1-Trichloroethane	<0.50	<0.50	<0.50	<0.50	<0.9	<0.9	<0.9	1.8	<0.9	<0.9
Trichloroethene	0.27	0.55	1.1	0.75	<0.48	<0.48	0.54	<0.20	<0.48	<0.48

All results reported in micrograms per liter (µg/L).

The ES and PAL are given in Chapter NR 140 Wisconsin Administrative Code.

- DUP Duplicate Sample.
- ES Enforcement Standard.
- PAL Preventative Action Limit.
- BOLD** Value exceeds the ES.
- Value exceeds the PAL.

Table 2. Summary of Groundwater Analytical Results, West Brook Shopping Center/Former Bask Dry Cleaners, Waukesha, Wisconsin.

Monitoring Well Sample Date	MW-12				MW-13 (DUP)				PZ-01	
	03/21/07	02/01/08	06/12/08	08/27/08	03/21/07	06/19/08	06/19/08	08/27/08	09/08/03	12/17/03
Benzene	<0.20	<0.41	<0.41	<0.41	<0.20	<0.41	<0.41	<0.41	<0.500	<0.352
Chloroform	<0.20	<0.37	<0.37	<0.37	<0.20	<0.37	<0.37	<0.37	<0.140	<0.463
Chloromethane	<0.20	<0.24	<0.24	<0.24	<0.20	<0.24	<0.24	<0.24	<0.600	<0.920
cis-1,2-Dichloroethene	4.1	3.4	2	1.9	33	34.8	33.5	1.7	<0.500	<5.00
trans-1,2-Dichloroethene	<0.50	<0.89	<0.89	<0.89	<0.50	1.1	1.3	<0.89	<0.500	<5.00
Naphthalene	<0.25	<0.74	<0.74	<0.74	<0.25	<0.74	<0.74	<0.74	<2.00	<8.00
Tetrachloroethene	<b>54</b>	<b>46</b>	<b>48.7</b>	<b>18.1</b>	4.2	<b>13.8</b>	<b>13.6</b>	<0.45	<b>12.3</b>	<b>1.85</b>
Toluene	<0.20	<0.67	<0.67	<0.67	<0.20	<0.67	<0.67	<0.67	<0.500	<5.00
1,1,1-Trichloroethane	<0.50	<0.90	<0.9	<0.9	<0.50	<0.9	<0.9	<0.9	<0.500	<5.00
Trichloroethene	<b>5.8</b>	4.6	4.3	2.5	2.3	1.7	1.9	<0.48	<0.500	<0.396

All results reported in micrograms per liter (µg/L).

The ES and PAL are given in Chapter NR 140 Wisconsin Administrative Code.

- DUP Duplicate Sample.
- ES Enforcement Standard.
- PAL Preventative Action Limit.

**BOLD** Value exceeds the ES.  
  Value exceeds the PAL.

Table 2. Summary of Groundwater Analytical Results, West Brook Shopping Center/Former Bask Dry Cleaners, Waukesha, Wisconsin.

Monitoring Well Sample Date	MW-12				MW-13 (DUP)			PZ-01		
	03/21/07	02/01/08	06/12/08	08/27/08	03/21/07	06/19/08	06/19/08	08/27/08	09/08/03	12/17/03
Benzene	<0.20	<0.41	<0.41	<0.41	<0.20	<0.41	<0.41	<0.41	<0.500	<0.352
Chloroform	<0.20	<0.37	<0.37	<0.37	<0.20	<0.37	<0.37	<0.37	<0.140	<0.463
Chloromethane	<0.20	<0.24	<0.24	<0.24	<0.20	<0.24	<0.24	<0.24	<0.600	<0.920
cis-1,2-Dichloroethene	4.1	3.4	2	1.9	33	34.8	33.5	1.7	<0.500	<5.00
trans-1,2-Dichloroethene	<0.50	<0.89	<0.89	<0.89	<0.50	1.1	1.3	<0.89	<0.500	<5.00
Naphthalene	<0.25	<0.74	<0.74	<0.74	<0.25	<0.74	<0.74	<0.74	<2.00	<8.00
Tetrachloroethene	<b>54</b>	<b>46</b>	<b>48.7</b>	<b>18.1</b>	4.2	<b>13.8</b>	<b>13.6</b>	<0.45	<b>12.3</b>	1.85
Toluene	<0.20	<0.67	<0.67	<0.67	<0.20	<0.67	<0.67	<0.67	<0.500	<5.00
1,1,1-Trichloroethane	<0.50	<0.90	<0.9	<0.9	<0.50	<0.9	<0.9	<0.9	<0.500	<5.00
Trichloroethene	<b>5.8</b>	4.6	4.3	2.5	2.3	1.7	1.9	<0.48	<0.500	<0.396

All results reported in micrograms per liter (µg/L).

The ES and PAL are given in Chapter NR 140 Wisconsin Administrative Code.

- DUP Duplicate Sample.
- ES Enforcement Standard.
- PAL Preventative Action Limit.
- BOLD** Value exceeds the ES.
- Value exceeds the PAL.

**Table 2. Summary of Groundwater Analytical Results, West Brook Shopping Center/Former Bask Dry Cleaners, Waukesha, Wisconsin.**

Monitoring Well Sample Date	PZ-01 (continued)			
	07/15/04	03/23/05	10/19/05	06/19/08
Benzene	<0.20	<0.20	<0.20	<0.41
Chloroform	<0.20	<0.20	<0.20	<0.37
Chloromethane	<0.20	<0.20	<0.20	<0.24
cis-1,2-Dichloroethene	<0.50	<0.50	0.79	0.97 J
trans-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.89
Naphthalene	<0.25	<0.25	<0.25	<0.74
Tetrachloroethene	<0.50	<0.50	<0.50	<b>0.54 J</b>
Toluene	<0.20	<0.20	<0.20	<0.67
1,1,1-Trichloroethane	<0.50	<0.50	<0.50	<0.9
Trichloroethene	<0.20	<0.20	<0.20	<0.48

All results reported in micrograms per liter (µg/L).

The ES and PAL are given in Chapter NR 140 Wisconsin Administrative Code.

- DUP Duplicate Sample.
- ES Enforcement Standard.
- PAL Preventative Action Limit.
- BOLD** Value exceeds the ES.
- Value exceeds the PAL.

Table 3. Summary of Well Construction and Groundwater Elevation Data, West Brook Shopping Center/Formers Bask Dry Cleaners, Waukesha, Wisconsin.

Monitoring Well	Date	Ground Surface Elevation (ft msl)	Top of Casing Elevation (ft msl)	Total Well Depth (ft msl)	Well Screen Elevation (ft msl)	Depth to Water (ft below TOC)	Water Level Elevation (ft msl)
MW-1	5/16/2002	941.64	941.25	906.25	921.25 - 906.25	26.20	915.05
	7/11/2002					26.44	914.81
	10/31/2002					26.72	914.53
	10/2/2003					27.89	913.36
	12/17/2003					28.13	913.12
	7/15/2004					27.23	914.02
	3/23/2005					27.46	913.79
	10/19/2005					28.11	913.14
	6/19/2008					24.31	916.94
8/25/2008	24.22	917.03					
MW-2	5/16/2002	942.41	942.07	907.07	922.07 - 907.07	27.03	915.04
	7/11/2002					27.23	914.84
	10/31/2002					27.57	914.50
	10/2/2003					28.94	913.13
	12/17/2003					29.17	912.90
	7/15/2004					28.17	913.90
	3/23/2005					28.45	913.62
	10/19/2005					29.17	912.90
	6/19/2008					26.25	915.82
8/25/2008	25.20	916.87					
MW-3	5/16/2002	937.79	937.32	905.32	920.32 - 905.32	22.86	914.46
	7/11/2002					23.16	914.16
	10/31/2002					23.52	913.80
	10/2/2003					24.69	912.63
	12/17/2003					24.83	912.49
	7/15/2004					23.73	913.59
	3/23/2005					24.07	913.25
	10/19/2005					24.90	912.42
	11/15/2007					23.08	914.24
	11/21/2007					22.97	914.35
	11/29/2007					23.16	914.16
	12/12/2007					23.20	914.12
	1/25/2007					22.79	914.53

Footnotes on Page 5.

**Table 3. Summary of Well Construction and Groundwater Elevation Data, West Brook Shopping Center/Former Bask Dry Cleaners, Waukesha, Wisconsin.**

Monitoring Well	Date	Ground Surface Elevation (ft msl)	Top of Casing Elevation (ft msl)	Total Well Depth (ft msl)	Well Screen Elevation (ft msl)	Depth to Water (ft below TOC)	Water Level Elevation (ft msl)
MW-3 (continued)	3/27/2008					22.32	915.00
	3/28/2008					22.33	914.99
	4/4/2008					22.07	915.25
	5/1/2008					21.31	916.01
	5/28/2008					21.48	915.84
	6/12/2008					21.32	916.00
	6/19/2008					20.80	916.52
	8/25/2008					21.33	915.99
MW-4	10/31/2002	932.33	931.89	901.89	911.89 - 901.89	18.61	913.28
	10/2/2003					19.81	912.08
	12/17/2003					19.89	912.00
	7/15/2004					18.75	913.14
	3/23/2005					19.18	912.71
	10/19/2005					20.05	911.84
	11/15/2007					18.15	913.74
	11/21/2007					17.95	913.94
	11/29/2007					18.19	913.70
	12/12/2007					18.33	913.56
	1/25/2008					17.62	914.27
	2/1/2008					17.66	914.23
	3/27/2008					16.98	914.91
	3/28/2008					16.94	914.95
	4/4/2008					16.78	915.11
	5/1/2008					16.13	915.76
	5/28/2008					17.32	914.57
6/12/2008					15.92	915.97	
6/19/2008					15.54	916.35	
8/8/2008					16.17	915.72	
8/25/2008					16.30	915.59	
MW-5	9/8/2003	934.42	934.08	909.08	924.08 - 909.08	21.46	912.62
	10/2/2003					21.56	912.52
	12/17/2003					21.68	912.40
	7/15/2004					20.50	913.58

Footnotes on Page 5.

Table 3. Summary of Well Construction and Groundwater Elevation Data, West Brook Shopping Center/Former Bask Dry Cleaners, Waukesha, Wisconsin.

Monitoring Well	Date	Ground Surface Elevation (ft msl)	Top of Casing Elevation (ft msl)	Total Well Depth (ft msl)	Well Screen Elevation (ft msl)	Depth to Water (ft below TOC)	Water Level Elevation (ft msl)
MW-5 (continued)	3/23/2005					20.82	913.26
	10/19/2005					21.35	912.73
	11/15/2007					19.75	914.33
	11/21/2007					19.70	914.38
	11/29/2007					19.98	914.10
	12/12/2007					19.86	914.22
	1/25/2008					19.33	914.75
	2/1/2008					19.18	914.90
	3/27/2008					18.78	915.30
	3/28/2008					18.85	915.23
	4/4/2008					18.49	915.59
	5/1/2008					17.88	916.20
	5/28/2008					18.04	916.04
	6/12/2008					17.62	916.46
	8/8/2008					18.01	916.07
8/25/2008					18.15	915.93	
MW-6	9/8/2003	925.93	925.65	905.65	920.65 - 905.65	14.73	910.92
	10/2/2003					14.86	910.79
	12/17/2003					14.78	910.87
	7/15/2004					13.33	912.32
	3/23/2005					13.96	911.69
	10/19/2005					15.15	910.50
	6/12/2008					10.21	915.44
	8/8/2008					11.44	914.21
8/25/2008					11.61	914.04	
MW-7	7/15/2004	935.95	935.58	907.58	917.58 - 907.58	21.72	913.86
	3/23/2005					21.98	913.60
	10/19/2005					23.17	912.41
	11/15/2007					21.20	914.38
	11/21/2007					20.99	914.59
	11/29/2007					21.06	914.52
	12/12/2007					21.27	914.31
1/25/2008					20.73	914.85	

Footnotes on Page 5.



Table 3. Summary of Well Construction and Groundwater Elevation Data, West Brook Shopping Center/Former Bask Dry Cleaners, Waukesha, Wisconsin.

Monitoring Well	Date	Ground Surface Elevation (ft msl)	Top of Casing Elevation (ft msl)	Total Well Depth (ft msl)	Well Screen Elevation (ft msl)	Depth to Water (ft below TOC)	Water Level Elevation (ft msl)
MW-7 (continued)	2/1/2008					20.65	914.93
	3/27/2008					20.07	915.51
	3/28/2008					20.07	915.51
	4/4/2008					19.80	915.78
	5/1/2008					19.25	916.33
	5/28/2008					19.48	916.10
	6/12/2008					18.85	916.73
	8/8/2008					19.10	916.48
	8/25/2008					19.22	916.36
MW-8	7/15/2004	923.36	922.92	900.92	910.92 - 900.92	13.48	909.44
	3/23/2005					12.58	910.34
	10/19/2005					14.96	907.96
	6/19/2008					11.01	911.91
	8/25/2008					12.88	910.04
MW-9	7/15/2004	919.56	919.23	902.23	912.23 - 902.23	7.53	911.70
	3/23/2005					8.18	911.05
	10/19/2005					9.50	909.73
	6/19/2008					4.34	914.89
	8/25/2008					5.83	913.40
MW-10	7/15/2004	918.24	917.88	899.88	909.88 - 899.88	13.32	904.56
	3/23/2005					15.31	902.57
	10/19/2005					17.40	900.48
	6/19/2008					8.24	909.64
	8/25/2008					12.52	905.36
MW-11	6/19/2008					19.42	NA
	8/25/2008					19.15	NA
MW-12	11/15/2007					20.61	NA
	11/21/2007					20.86	NA
	11/29/2007					21.12	NA
	2/1/2008					19.57	NA
	6/12/2008					17.55	NA
	8/25/2008					17.99	NA

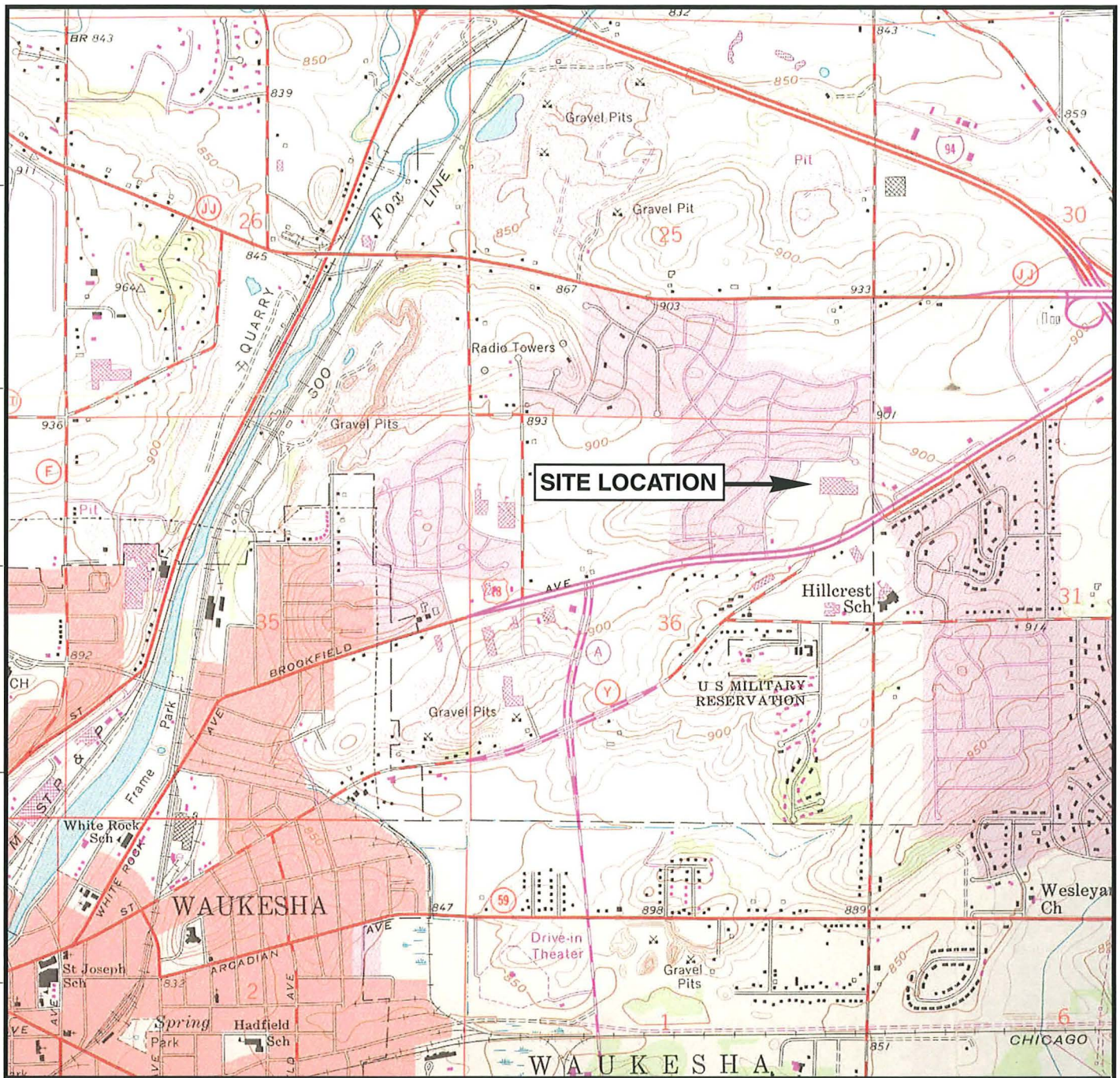
Footnotes on Page 5.

**Table 3. Summary of Well Construction and Groundwater Elevation Data, West Brook Shopping Center/Former Bask Dry Cleaners, Waukesha, Wisconsin.**

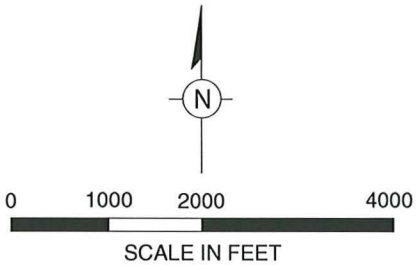
Monitoring Well	Date	Ground Surface Elevation (ft msl)	Top of Casing Elevation (ft msl)	Total Well Depth (ft msl)	Well Screen Elevation (ft msl)	Depth to Water (ft below TOC)	Water Level Elevation (ft msl)
MW-13	6/19/2008					9.84	NA
	8/25/2008					10.93	NA
PZ-1	9/8/2003	932.34	931.82	886.82	891.82 - 886.82	43.78	888.04
	10/2/2003					43.83	887.99
	12/17/2003					43.40	888.42
	7/15/2004					40.70	891.12
	3/23/2005					40.51	891.31
	10/19/2005					41.20	890.62
	6/19/2008					40.92	890.90
	8/25/2008					40.90	890.92
PZ-2	3/23/2005	934.27	933.79	873.79	878.79 - 873.79	Dry	NA
	4/14/2005					Dry	NA
	6/19/2008					59.14	874.65
	8/25/2008					59.30	874.49
PZ-3	3/23/2005	923.40	922.99	870.99	875.99 - 870.99	Dry	NA
	4/14/2005					Dry	NA
	6/19/2008					Dry	NA
	8/25/2008					Dry	NA

ft msl      Feet above mean sea level.  
 NA          Not available.  
 TOC        Top of casing.

DWG DATE: 30JUL08 | PN: WBLPELAWW1147BASK | FILE NO.: GRAPHICS | DRAWING: SITE LOC.AI | CHECKED: PL | APPROVED: | DRAFTER: LMB



SOURCE: USGS 7.5 Minute Topographic Map, Fond du Lac, WISCONSIN Quadrangle, 1971.

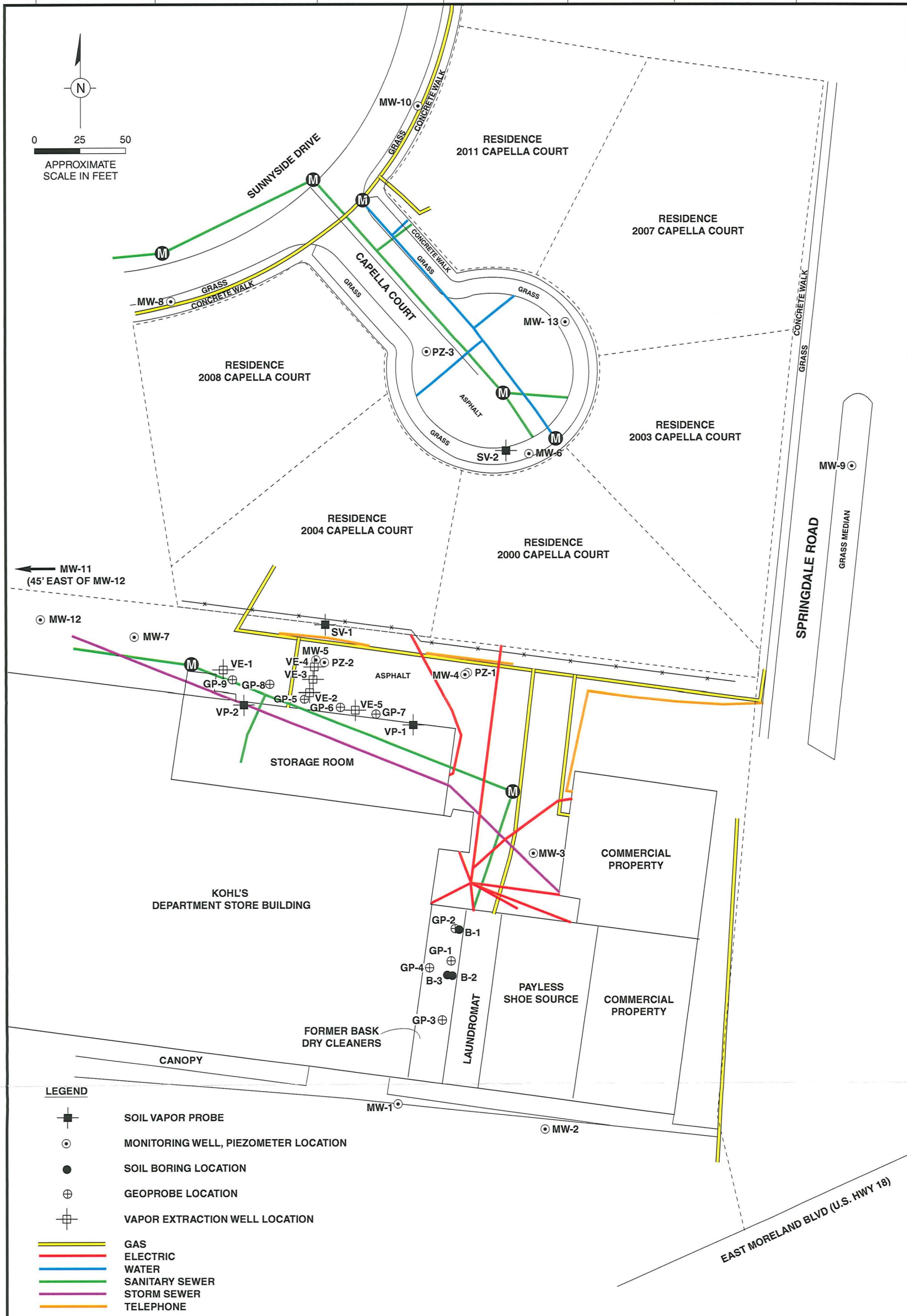


### SITE LOCATION MAP

WEST BROOK SHOPPING CENTER/FORMER BASK DRY CLEANERS  
WAUKESHA, WISCONSIN

FIGURE

1



LEGEND

- SOIL VAPOR PROBE
- MONITORING WELL, PIEZOMETER LOCATION
- SOIL BORING LOCATION
- GEOPROBE LOCATION
- VAPOR EXTRACTION WELL LOCATION
- GAS
- ELECTRIC
- WATER
- SANITARY SEWER
- STORM SEWER
- TELEPHONE

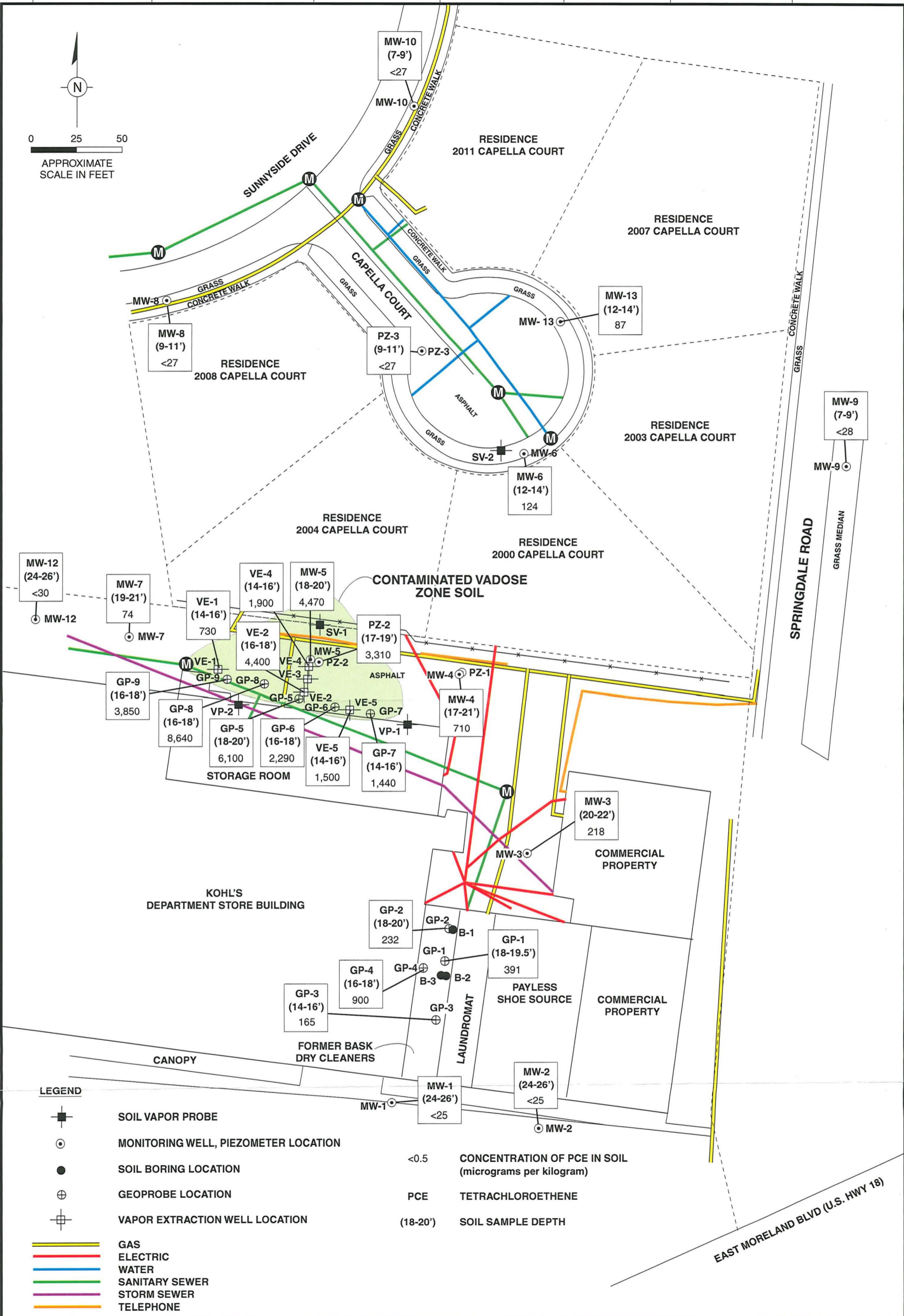


SITE LAYOUT

WEST BROOK SHOPPING CENTER/FORMER BASK DRY CLEANERS  
WAUKESHA, WISCONSIN

FIGURE

2

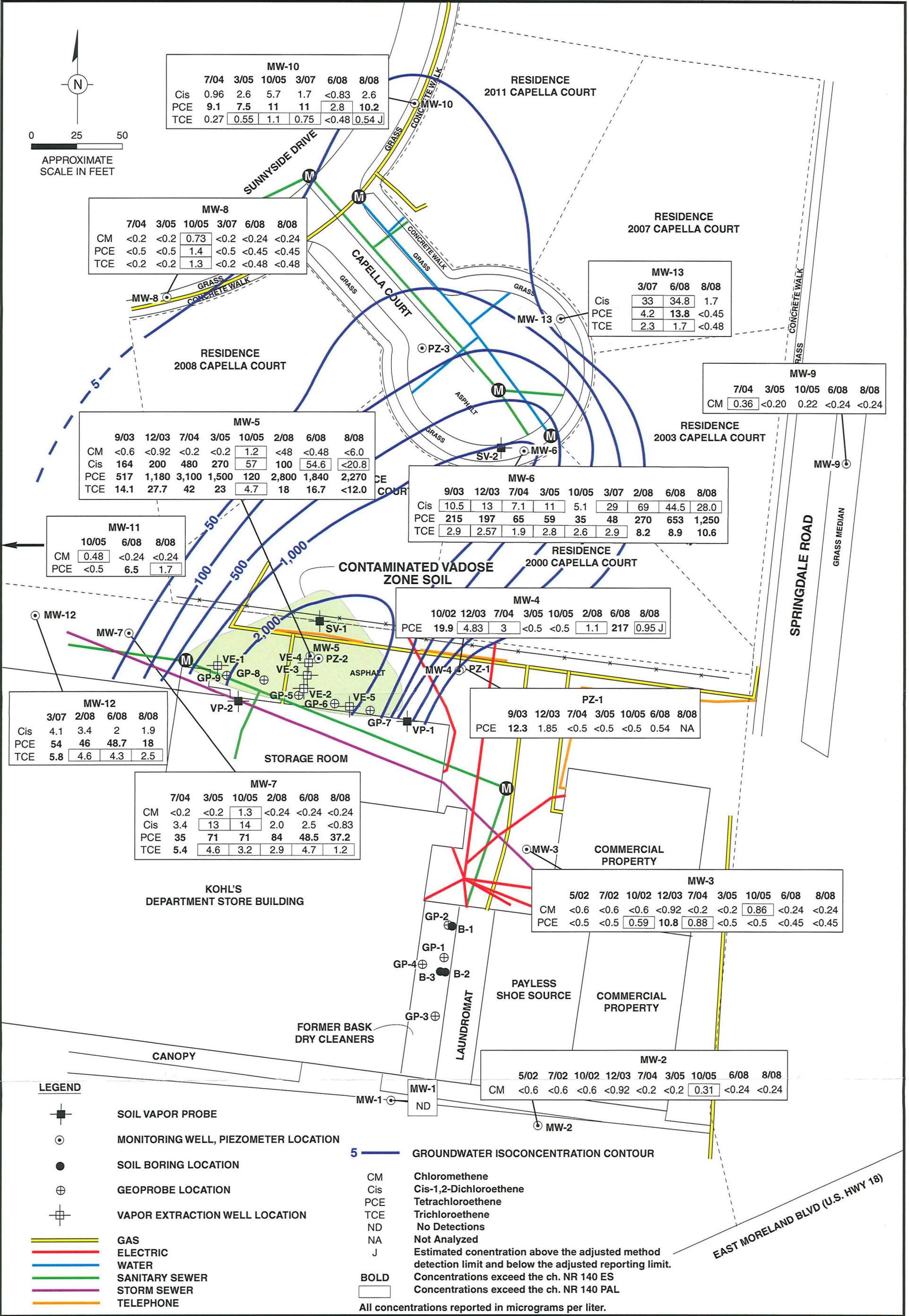


EXTENT OF PCE IMPACTED SOIL IN VADOSE ZONE

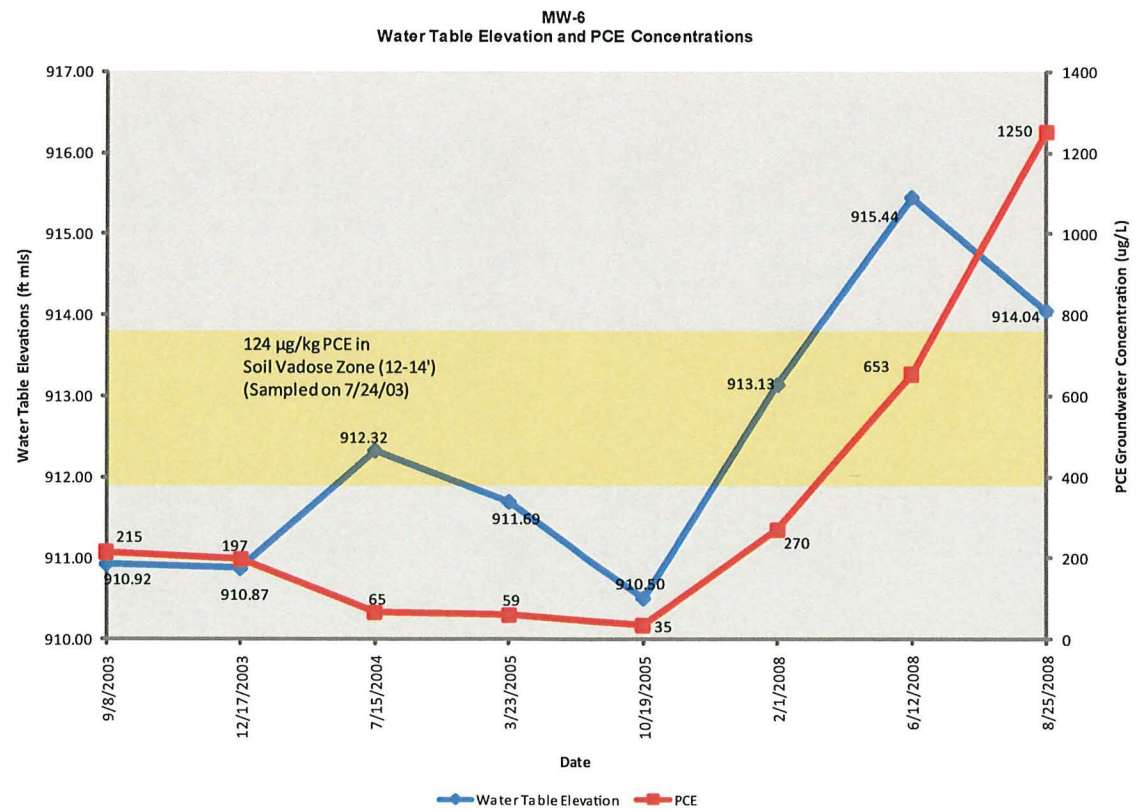
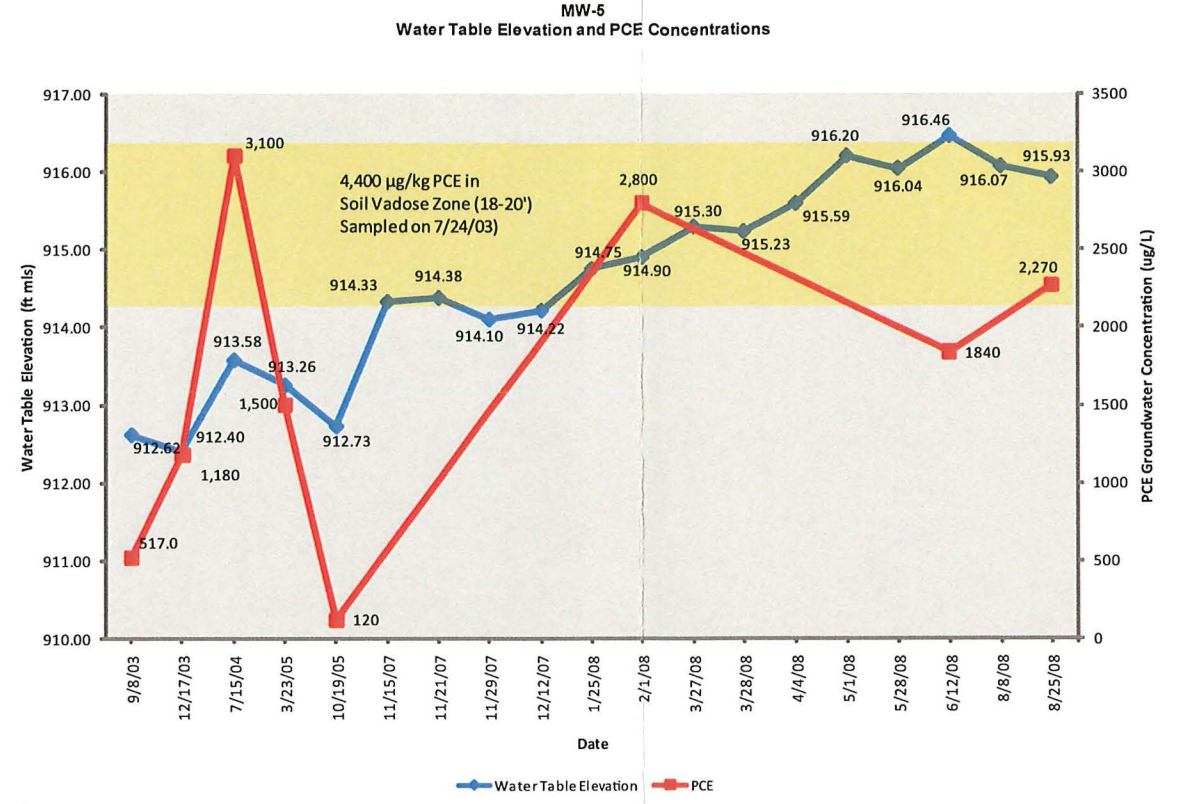
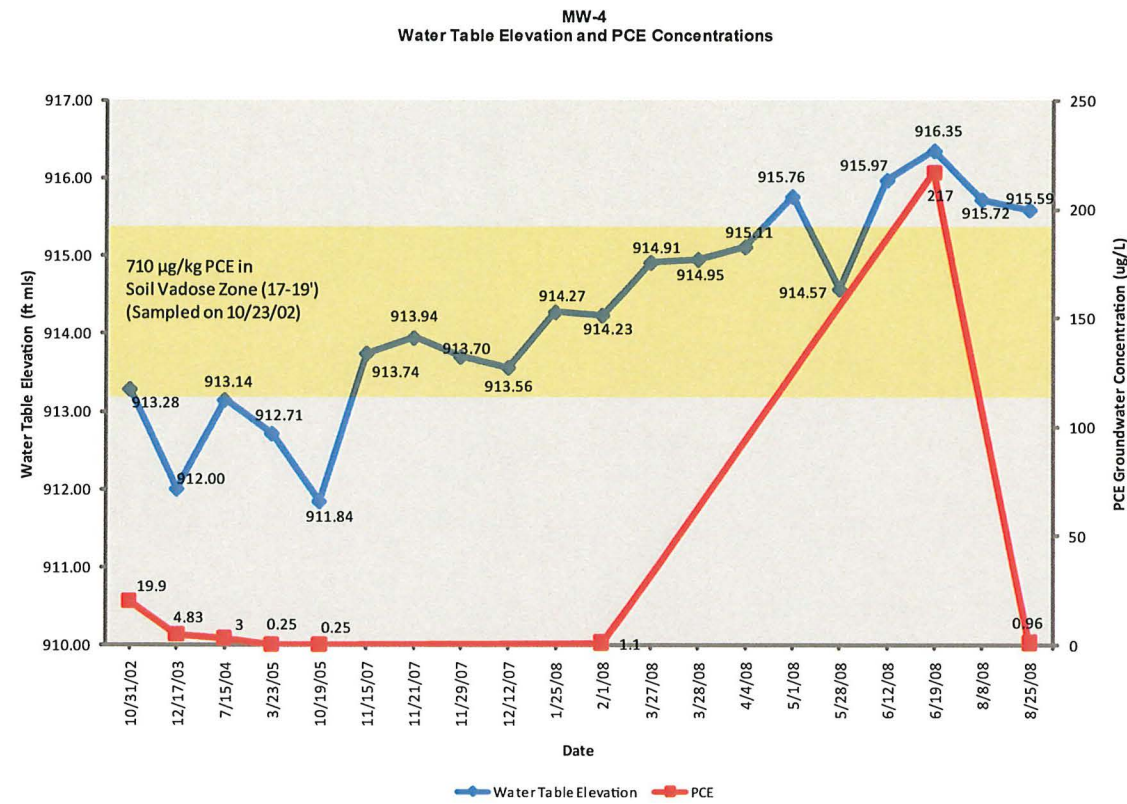
WEST BROOK SHOPPING CENTER/FORMER BASK DRY CLEANERS  
WAUKESHA, WISCONSIN

FIGURE





**EXTENT OF PCE - IMPACTED GROUNDWATER**  
**AUGUST 2008**  
 WEST BROOK SHOPPING CENTER/FORMER BASK DRY CLEANERS  
 WAUKESHA, WISCONSIN



**WATER TABLE ELEVATIONS AND PCE MEASUREMENTS**  
 WEST BROOK SHOPPING CENTER/FORMER BASK DRY CLEANERS  
 WAUKESHA, WISCONSIN

ARCADIS

**Appendix A**

NR 712 Certification



# ARCADIS

## Submittal Certification

This appendix was prepared to satisfy the requirements of Wisconsin Administrative Code Chapter NR 712.09 and is applicable to the following document.

**Results of Groundwater Sample Collection August 2008  
Westbrook Shopping Center/Former Bask Dry Cleaners  
2136 E. Moreland Boulevard  
Waukesha, Wisconsin  
BRRTS Number 02-68-297669**

---

"I, James Bannantine, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

*James E Bannantine Project Manager*  
\_\_\_\_\_  
Signature and Title

*9/30/08*  
\_\_\_\_\_  
Date

ARCADIS

**Appendix B**

Groundwater Analytical Data

September 04, 2008

Brian Maillet  
ARCADIS G & M  
126 N JEFFERSON ST  
SUITE 400  
Milwaukee, WI 53202

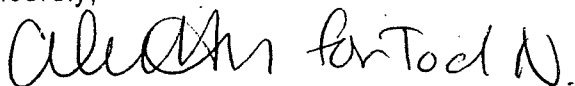
RE: Project: Bask & Decorah  
Pace Project No.: 408314

Dear Brian Maillet:

Enclosed are the analytical results for sample(s) received by the laboratory on August 28, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Tod Noltemeyer

tod.noltemeyer@pacelabs.com  
Project Manager

Enclosures

**REPORT OF LABORATORY ANALYSIS**

Page 1 of 41

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## CERTIFICATIONS

Project: Bask & Decorah  
Pace Project No.: 408314

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### Green Bay Certification IDs

Louisiana Certification #: 04168	North Carolina Certification #: 503
Kentucky Certification #: 82	North Dakota Certification #: R-150
Wisconsin DATCP Certification #: 105-444	New York Certification #: 11888
Wisconsin Certification #: 405132750	Illinois Certification #: 200050
South Carolina Certification #: 83006001	Florida (NELAP) Certification #: E87948
Minnesota Certification #: 055-999-334	

### Green Bay Volatiles Certification IDs

Louisiana Certification #: 04169	North Carolina Certification #: 503
Kentucky Certification #: 83	North Dakota Certification #: R-200
Wisconsin DATCP Certification #: 105-444	New York Certification #: 11887
Wisconsin Certification #: 405132750	Illinois Certification #: 200051
South Carolina Certification #: 83006001	Florida (NELAP) Certification #: E87951
Minnesota Certification #: 055-999-334	

## REPORT OF LABORATORY ANALYSIS

Page 2 of 41

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### SAMPLE SUMMARY

Project: Bask & Decorah  
Pace Project No.: 408314

Lab ID	Sample ID	Matrix	Date Collected	Date Received
408314001	MW-1	Water	08/25/08 14:15	08/28/08 15:00
408314002	MW-2	Water	08/25/08 15:30	08/28/08 15:00
408314003	MW-11	Water	08/26/08 10:05	08/28/08 15:00
408314004	MW-9	Water	08/26/08 11:25	08/28/08 15:00
408314005	MW-10	Water	08/26/08 12:45	08/28/08 15:00
408314006	MW-3	Water	08/26/08 14:25	08/28/08 15:00
408314007	MW-8	Water	08/26/08 15:45	08/28/08 15:00
408314008	MW-7	Water	08/26/08 17:05	08/28/08 15:00
408314009	MW-12	Water	08/27/08 10:05	08/28/08 15:00
408314010	MW-13	Water	08/27/08 11:40	08/28/08 15:00
408314011	MW-6	Water	08/27/08 12:00	08/28/08 15:00
408314012	MW-4	Water	08/27/08 13:45	08/28/08 15:00
408314013	MW-5	Water	08/27/08 15:00	08/28/08 15:00
408314014	DUP-A	Water	08/27/08 00:00	08/28/08 15:00
408314015	TRIP BLANK	Water	08/27/08 00:00	08/28/08 15:00

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: Bask & Decorah  
Pace Project No.: 408314

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
408314001	MW-1	EPA 8260	SMT	64	PASI-G
408314002	MW-2	EPA 8260	SMT	64	PASI-G
408314003	MW-11	EPA 8260	SMT	64	PASI-G
408314004	MW-9	EPA 8260	SMT	64	PASI-G
408314005	MW-10	EPA 8260	SMT	64	PASI-G
408314006	MW-3	EPA 8260	SMT	64	PASI-G
408314007	MW-8	EPA 8260	SMT	64	PASI-G
408314008	MW-7	EPA 8260	SMT	64	PASI-G
408314009	MW-12	EPA 8260	SMT	64	PASI-G
408314010	MW-13	EPA 8260	SMT	64	PASI-G
408314011	MW-6	EPA 8260	SMT	64	PASI-G
408314012	MW-4	EPA 8260	SMT	64	PASI-G
408314013	MW-5	EPA 8260	SMT	64	PASI-G
408314014	DUP-A	EPA 8260	SMT	64	PASI-G
408314015	TRIP BLANK	EPA 8260	SMT	64	PASI-G

**REPORT OF LABORATORY ANALYSIS**

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## PROJECT NARRATIVE

Project: Bask & Decorah  
Pace Project No.: 408314

---

**Method:** EPA 8260  
**Description:** 8260 MSV  
**Client:** ARCADIS G & M  
**Date:** September 04, 2008

**General Information:**

15 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

### ANALYTICAL RESULTS

Project: Bask & Decorah  
Pace Project No.: 408314

Sample: MW-1      Lab ID: 408314001      Collected: 08/25/08 14:15      Received: 08/28/08 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		09/03/08 01:01	630-20-6	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		09/03/08 01:01	71-55-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.67	0.20	1		09/03/08 01:01	79-34-5	
1,1,2-Trichloroethane	<0.42	ug/L	1.4	0.42	1		09/03/08 01:01	79-00-5	
1,1-Dichloroethane	<0.75	ug/L	1.0	0.75	1		09/03/08 01:01	75-34-3	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		09/03/08 01:01	75-35-4	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		09/03/08 01:01	563-58-6	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		09/03/08 01:01	87-61-6	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		09/03/08 01:01	96-18-4	
1,2,4-Trichlorobenzene	<0.97	ug/L	1.0	0.97	1		09/03/08 01:01	120-82-1	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		09/03/08 01:01	95-63-6	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	5.6	1.7	1		09/03/08 01:01	96-12-8	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.9	0.56	1		09/03/08 01:01	106-93-4	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		09/03/08 01:01	95-50-1	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		09/03/08 01:01	107-06-2	
1,2-Dichloropropane	<0.49	ug/L	1.0	0.49	1		09/03/08 01:01	78-87-5	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		09/03/08 01:01	108-67-8	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		09/03/08 01:01	541-73-1	
1,3-Dichloropropane	<0.61	ug/L	2.0	0.61	1		09/03/08 01:01	142-28-9	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		09/03/08 01:01	106-46-7	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		09/03/08 01:01	594-20-7	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		09/03/08 01:01	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		09/03/08 01:01	106-43-4	
Benzene	<0.41	ug/L	1.0	0.41	1		09/03/08 01:01	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		09/03/08 01:01	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		09/03/08 01:01	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.9	0.56	1		09/03/08 01:01	75-27-4	
Bromoform	<0.94	ug/L	3.1	0.94	1		09/03/08 01:01	75-25-2	
Bromomethane	<0.91	ug/L	3.0	0.91	1		09/03/08 01:01	74-83-9	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		09/03/08 01:01	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		09/03/08 01:01	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		09/03/08 01:01	75-00-3	
Chloroform	<1.3	ug/L	4.3	1.3	1		09/03/08 01:01	67-66-3	
Chloromethane	<0.24	ug/L	0.80	0.24	1		09/03/08 01:01	74-87-3	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		09/03/08 01:01	124-48-1	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		09/03/08 01:01	74-95-3	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		09/03/08 01:01	75-71-8	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		09/03/08 01:01	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		09/03/08 01:01	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	1.0	0.67	1		09/03/08 01:01	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		09/03/08 01:01	98-82-8	
Methyl-tert-butyl ether	<0.61	ug/L	2.0	0.61	1		09/03/08 01:01	1634-04-4	
Methylene Chloride	<0.43	ug/L	1.4	0.43	1		09/03/08 01:01	75-09-2	
Naphthalene	<0.89	ug/L	5.0	0.89	1		09/03/08 01:01	91-20-3	
Styrene	<0.86	ug/L	1.0	0.86	1		09/03/08 01:01	100-42-5	
Tetrachloroethene	<0.45	ug/L	1.0	0.45	1		09/03/08 01:01	127-18-4	



### ANALYTICAL RESULTS

Project: Bask & Decorah

Pace Project No.: 408314

Sample: MW-1 Lab ID: 408314001 Collected: 08/25/08 14:15 Received: 08/28/08 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Toluene	<0.67	ug/L	1.0	0.67	1		09/03/08 01:01	108-88-3	
Trichloroethene	<0.48	ug/L	1.0	0.48	1		09/03/08 01:01	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		09/03/08 01:01	75-69-4	
Vinyl chloride	<0.18	ug/L	0.60	0.18	1		09/03/08 01:01	75-01-4	
cis-1,2-Dichloroethene	<0.83	ug/L	1.0	0.83	1		09/03/08 01:01	156-59-2	
cis-1,3-Dichloropropene	<0.20	ug/L	0.67	0.20	1		09/03/08 01:01	10061-01-5	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		09/03/08 01:01	1330-20-7	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		09/03/08 01:01	104-51-8	
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		09/03/08 01:01	103-65-1	
o-Xylene	<0.83	ug/L	1.0	0.83	1		09/03/08 01:01	95-47-6	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		09/03/08 01:01	99-87-6	
sec-Butylbenzene	<0.89	ug/L	1.0	0.89	1		09/03/08 01:01	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		09/03/08 01:01	98-06-6	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		09/03/08 01:01	156-60-5	
trans-1,3-Dichloropropene	<0.19	ug/L	0.63	0.19	1		09/03/08 01:01	10061-02-6	
4-Bromofluorobenzene (S)	100 %		64-132		1		09/03/08 01:01	460-00-4	
Dibromofluoromethane (S)	95 %		68-122		1		09/03/08 01:01	1868-53-7	
Toluene-d8 (S)	106 %		73-127		1		09/03/08 01:01	2037-26-5	

### ANALYTICAL RESULTS

Project: Bask & Decorah  
Pace Project No.: 408314

Sample: MW-2      Lab ID: 408314002      Collected: 08/25/08 15:30      Received: 08/28/08 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		09/03/08 01:24	630-20-6	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		09/03/08 01:24	71-55-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.67	0.20	1		09/03/08 01:24	79-34-5	
1,1,2-Trichloroethane	<0.42	ug/L	1.4	0.42	1		09/03/08 01:24	79-00-5	
1,1-Dichloroethane	<0.75	ug/L	1.0	0.75	1		09/03/08 01:24	75-34-3	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		09/03/08 01:24	75-35-4	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		09/03/08 01:24	563-58-6	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		09/03/08 01:24	87-61-6	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		09/03/08 01:24	96-18-4	
1,2,4-Trichlorobenzene	<0.97	ug/L	1.0	0.97	1		09/03/08 01:24	120-82-1	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		09/03/08 01:24	95-63-6	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	5.6	1.7	1		09/03/08 01:24	96-12-8	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.9	0.56	1		09/03/08 01:24	106-93-4	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		09/03/08 01:24	95-50-1	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		09/03/08 01:24	107-06-2	
1,2-Dichloropropane	<0.49	ug/L	1.0	0.49	1		09/03/08 01:24	78-87-5	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		09/03/08 01:24	108-67-8	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		09/03/08 01:24	541-73-1	
1,3-Dichloropropane	<0.61	ug/L	2.0	0.61	1		09/03/08 01:24	142-28-9	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		09/03/08 01:24	106-46-7	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		09/03/08 01:24	594-20-7	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		09/03/08 01:24	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		09/03/08 01:24	106-43-4	
Benzene	<0.41	ug/L	1.0	0.41	1		09/03/08 01:24	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		09/03/08 01:24	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		09/03/08 01:24	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.9	0.56	1		09/03/08 01:24	75-27-4	
Bromoform	<0.94	ug/L	3.1	0.94	1		09/03/08 01:24	75-25-2	
Bromomethane	<0.91	ug/L	3.0	0.91	1		09/03/08 01:24	74-83-9	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		09/03/08 01:24	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		09/03/08 01:24	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		09/03/08 01:24	75-00-3	
Chloroform	<1.3	ug/L	4.3	1.3	1		09/03/08 01:24	67-66-3	
Chloromethane	<0.24	ug/L	0.80	0.24	1		09/03/08 01:24	74-87-3	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		09/03/08 01:24	124-48-1	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		09/03/08 01:24	74-95-3	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		09/03/08 01:24	75-71-8	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		09/03/08 01:24	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		09/03/08 01:24	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	1.0	0.67	1		09/03/08 01:24	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		09/03/08 01:24	98-82-8	
Methyl-tert-butyl ether	<0.61	ug/L	2.0	0.61	1		09/03/08 01:24	1634-04-4	
Methylene Chloride	<0.43	ug/L	1.4	0.43	1		09/03/08 01:24	75-09-2	
Naphthalene	<0.89	ug/L	5.0	0.89	1		09/03/08 01:24	91-20-3	
Styrene	<0.86	ug/L	1.0	0.86	1		09/03/08 01:24	100-42-5	
Tetrachloroethene	<0.45	ug/L	1.0	0.45	1		09/03/08 01:24	127-18-4	

Date: 09/04/2008 07:07 AM

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Bask & Decorah  
Pace Project No.: 408314

Sample: MW-2      Lab ID: 408314002      Collected: 08/25/08 15:30      Received: 08/28/08 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Toluene	<0.67	ug/L	1.0	0.67	1		09/03/08 01:24	108-88-3	
Trichloroethene	<0.48	ug/L	1.0	0.48	1		09/03/08 01:24	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		09/03/08 01:24	75-69-4	
Vinyl chloride	<0.18	ug/L	0.60	0.18	1		09/03/08 01:24	75-01-4	
cis-1,2-Dichloroethene	<0.83	ug/L	1.0	0.83	1		09/03/08 01:24	156-59-2	
cis-1,3-Dichloropropene	<0.20	ug/L	0.67	0.20	1		09/03/08 01:24	10061-01-5	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		09/03/08 01:24	1330-20-7	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		09/03/08 01:24	104-51-8	
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		09/03/08 01:24	103-65-1	
o-Xylene	<0.83	ug/L	1.0	0.83	1		09/03/08 01:24	95-47-6	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		09/03/08 01:24	99-87-6	
sec-Butylbenzene	<0.89	ug/L	1.0	0.89	1		09/03/08 01:24	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		09/03/08 01:24	98-06-6	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		09/03/08 01:24	156-60-5	
trans-1,3-Dichloropropene	<0.19	ug/L	0.63	0.19	1		09/03/08 01:24	10061-02-6	
4-Bromofluorobenzene (S)	100	%	64-132		1		09/03/08 01:24	460-00-4	
Dibromofluoromethane (S)	97	%	68-122		1		09/03/08 01:24	1868-53-7	
Toluene-d8 (S)	108	%	73-127		1		09/03/08 01:24	2037-26-5	

## ANALYTICAL RESULTS

Project: Bask & Decorah  
Pace Project No.: 408314

Sample: MW-11      Lab ID: 408314003      Collected: 08/26/08 10:05      Received: 08/28/08 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		09/02/08 22:23	630-20-6	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		09/02/08 22:23	71-55-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.67	0.20	1		09/02/08 22:23	79-34-5	
1,1,2-Trichloroethane	<0.42	ug/L	1.4	0.42	1		09/02/08 22:23	79-00-5	
1,1-Dichloroethane	<0.75	ug/L	1.0	0.75	1		09/02/08 22:23	75-34-3	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		09/02/08 22:23	75-35-4	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		09/02/08 22:23	563-58-6	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		09/02/08 22:23	87-61-6	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		09/02/08 22:23	96-18-4	
1,2,4-Trichlorobenzene	<0.97	ug/L	1.0	0.97	1		09/02/08 22:23	120-82-1	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		09/02/08 22:23	95-63-6	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	5.6	1.7	1		09/02/08 22:23	96-12-8	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.9	0.56	1		09/02/08 22:23	106-93-4	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		09/02/08 22:23	95-50-1	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		09/02/08 22:23	107-06-2	
1,2-Dichloropropane	<0.49	ug/L	1.0	0.49	1		09/02/08 22:23	78-87-5	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		09/02/08 22:23	108-67-8	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		09/02/08 22:23	541-73-1	
1,3-Dichloropropane	<0.61	ug/L	2.0	0.61	1		09/02/08 22:23	142-28-9	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		09/02/08 22:23	106-46-7	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		09/02/08 22:23	594-20-7	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		09/02/08 22:23	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		09/02/08 22:23	106-43-4	
Benzene	<0.41	ug/L	1.0	0.41	1		09/02/08 22:23	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		09/02/08 22:23	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		09/02/08 22:23	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.9	0.56	1		09/02/08 22:23	75-27-4	
Bromoform	<0.94	ug/L	3.1	0.94	1		09/02/08 22:23	75-25-2	
Bromomethane	<0.91	ug/L	3.0	0.91	1		09/02/08 22:23	74-83-9	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		09/02/08 22:23	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		09/02/08 22:23	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		09/02/08 22:23	75-00-3	
Chloroform	<1.3	ug/L	4.3	1.3	1		09/02/08 22:23	67-66-3	
Chloromethane	<0.24	ug/L	0.80	0.24	1		09/02/08 22:23	74-87-3	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		09/02/08 22:23	124-48-1	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		09/02/08 22:23	74-95-3	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		09/02/08 22:23	75-71-8	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		09/02/08 22:23	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		09/02/08 22:23	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	1.0	0.67	1		09/02/08 22:23	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		09/02/08 22:23	98-82-8	
Methyl-tert-butyl ether	<0.61	ug/L	2.0	0.61	1		09/02/08 22:23	1634-04-4	
Methylene Chloride	<0.43	ug/L	1.4	0.43	1		09/02/08 22:23	75-09-2	
Naphthalene	<0.89	ug/L	5.0	0.89	1		09/02/08 22:23	91-20-3	
Styrene	<0.86	ug/L	1.0	0.86	1		09/02/08 22:23	100-42-5	
Tetrachloroethene	1.7	ug/L	1.0	0.45	1		09/02/08 22:23	127-18-4	

### ANALYTICAL RESULTS

Project: Bask & Decorah  
Pace Project No.: 408314

Sample: MW-11      Lab ID: 408314003      Collected: 08/26/08 10:05      Received: 08/28/08 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Toluene	<0.67	ug/L	1.0	0.67	1		09/02/08 22:23	108-88-3	
Trichloroethene	<0.48	ug/L	1.0	0.48	1		09/02/08 22:23	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		09/02/08 22:23	75-69-4	
Vinyl chloride	<0.18	ug/L	0.60	0.18	1		09/02/08 22:23	75-01-4	
cis-1,2-Dichloroethene	<0.83	ug/L	1.0	0.83	1		09/02/08 22:23	156-59-2	
cis-1,3-Dichloropropene	<0.20	ug/L	0.67	0.20	1		09/02/08 22:23	10061-01-5	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		09/02/08 22:23	1330-20-7	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		09/02/08 22:23	104-51-8	
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		09/02/08 22:23	103-65-1	
o-Xylene	<0.83	ug/L	1.0	0.83	1		09/02/08 22:23	95-47-6	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		09/02/08 22:23	99-87-6	
sec-Butylbenzene	<0.89	ug/L	1.0	0.89	1		09/02/08 22:23	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		09/02/08 22:23	98-06-6	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		09/02/08 22:23	156-60-5	
trans-1,3-Dichloropropene	<0.19	ug/L	0.63	0.19	1		09/02/08 22:23	10061-02-6	
4-Bromofluorobenzene (S)	100 %		64-132		1		09/02/08 22:23	460-00-4	
Dibromofluoromethane (S)	96 %		68-122		1		09/02/08 22:23	1868-53-7	
Toluene-d8 (S)	105 %		73-127		1		09/02/08 22:23	2037-26-5	

## ANALYTICAL RESULTS

Project: Bask & Decorah  
Pace Project No.: 408314

Sample: MW-9      Lab ID: 408314004      Collected: 08/26/08 11:25      Received: 08/28/08 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		09/03/08 01:47	630-20-6	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		09/03/08 01:47	71-55-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.67	0.20	1		09/03/08 01:47	79-34-5	
1,1,2-Trichloroethane	<0.42	ug/L	1.4	0.42	1		09/03/08 01:47	79-00-5	
1,1-Dichloroethane	<0.75	ug/L	1.0	0.75	1		09/03/08 01:47	75-34-3	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		09/03/08 01:47	75-35-4	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		09/03/08 01:47	563-58-6	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		09/03/08 01:47	87-61-6	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		09/03/08 01:47	96-18-4	
1,2,4-Trichlorobenzene	<0.97	ug/L	1.0	0.97	1		09/03/08 01:47	120-82-1	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		09/03/08 01:47	95-63-6	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	5.6	1.7	1		09/03/08 01:47	96-12-8	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.9	0.56	1		09/03/08 01:47	106-93-4	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		09/03/08 01:47	95-50-1	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		09/03/08 01:47	107-06-2	
1,2-Dichloropropane	<0.49	ug/L	1.0	0.49	1		09/03/08 01:47	78-87-5	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		09/03/08 01:47	108-67-8	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		09/03/08 01:47	541-73-1	
1,3-Dichloropropane	<0.61	ug/L	2.0	0.61	1		09/03/08 01:47	142-28-9	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		09/03/08 01:47	106-46-7	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		09/03/08 01:47	594-20-7	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		09/03/08 01:47	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		09/03/08 01:47	106-43-4	
Benzene	<0.41	ug/L	1.0	0.41	1		09/03/08 01:47	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		09/03/08 01:47	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		09/03/08 01:47	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.9	0.56	1		09/03/08 01:47	75-27-4	
Bromoform	<0.94	ug/L	3.1	0.94	1		09/03/08 01:47	75-25-2	
Bromomethane	<0.91	ug/L	3.0	0.91	1		09/03/08 01:47	74-83-9	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		09/03/08 01:47	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		09/03/08 01:47	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		09/03/08 01:47	75-00-3	
Chloroform	<1.3	ug/L	4.3	1.3	1		09/03/08 01:47	67-66-3	
Chloromethane	<0.24	ug/L	0.80	0.24	1		09/03/08 01:47	74-87-3	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		09/03/08 01:47	124-48-1	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		09/03/08 01:47	74-95-3	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		09/03/08 01:47	75-71-8	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		09/03/08 01:47	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		09/03/08 01:47	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	1.0	0.67	1		09/03/08 01:47	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		09/03/08 01:47	98-82-8	
Methyl-tert-butyl ether	<0.61	ug/L	2.0	0.61	1		09/03/08 01:47	1634-04-4	
Methylene Chloride	<0.43	ug/L	1.4	0.43	1		09/03/08 01:47	75-09-2	
Naphthalene	<0.89	ug/L	5.0	0.89	1		09/03/08 01:47	91-20-3	
Styrene	<0.86	ug/L	1.0	0.86	1		09/03/08 01:47	100-42-5	
Tetrachloroethene	<0.45	ug/L	1.0	0.45	1		09/03/08 01:47	127-18-4	

Date: 09/04/2008 07:07 AM

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### ANALYTICAL RESULTS

Project: Bask & Decorah  
Pace Project No.: 408314

Sample: MW-9      Lab ID: 408314004      Collected: 08/26/08 11:25      Received: 08/28/08 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Toluene	<0.67	ug/L	1.0	0.67	1		09/03/08 01:47	108-88-3	
Trichloroethene	<0.48	ug/L	1.0	0.48	1		09/03/08 01:47	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		09/03/08 01:47	75-69-4	
Vinyl chloride	<0.18	ug/L	0.60	0.18	1		09/03/08 01:47	75-01-4	
cis-1,2-Dichloroethene	<0.83	ug/L	1.0	0.83	1		09/03/08 01:47	156-59-2	
cis-1,3-Dichloropropene	<0.20	ug/L	0.67	0.20	1		09/03/08 01:47	10061-01-5	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		09/03/08 01:47	1330-20-7	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		09/03/08 01:47	104-51-8	
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		09/03/08 01:47	103-65-1	
o-Xylene	<0.83	ug/L	1.0	0.83	1		09/03/08 01:47	95-47-6	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		09/03/08 01:47	99-87-6	
sec-Butylbenzene	<0.89	ug/L	1.0	0.89	1		09/03/08 01:47	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		09/03/08 01:47	98-06-6	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		09/03/08 01:47	156-60-5	
trans-1,3-Dichloropropene	<0.19	ug/L	0.63	0.19	1		09/03/08 01:47	10061-02-6	
4-Bromofluorobenzene (S)	99 %		64-132		1		09/03/08 01:47	460-00-4	
Dibromofluoromethane (S)	96 %		68-122		1		09/03/08 01:47	1868-53-7	
Toluene-d8 (S)	106 %		73-127		1		09/03/08 01:47	2037-26-5	

### ANALYTICAL RESULTS

Project: Bask & Decorah  
Pace Project No.: 408314

Sample: MW-10 Lab ID: 408314005 Collected: 08/26/08 12:45 Received: 08/28/08 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		09/03/08 02:09	630-20-6	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		09/03/08 02:09	71-55-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.67	0.20	1		09/03/08 02:09	79-34-5	
1,1,2-Trichloroethane	<0.42	ug/L	1.4	0.42	1		09/03/08 02:09	79-00-5	
1,1-Dichloroethane	<0.75	ug/L	1.0	0.75	1		09/03/08 02:09	75-34-3	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		09/03/08 02:09	75-35-4	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		09/03/08 02:09	563-58-6	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		09/03/08 02:09	87-61-6	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		09/03/08 02:09	96-18-4	
1,2,4-Trichlorobenzene	<0.97	ug/L	1.0	0.97	1		09/03/08 02:09	120-82-1	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		09/03/08 02:09	95-63-6	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	5.6	1.7	1		09/03/08 02:09	96-12-8	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.9	0.56	1		09/03/08 02:09	106-93-4	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		09/03/08 02:09	95-50-1	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		09/03/08 02:09	107-06-2	
1,2-Dichloropropane	<0.49	ug/L	1.0	0.49	1		09/03/08 02:09	78-87-5	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		09/03/08 02:09	108-67-8	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		09/03/08 02:09	541-73-1	
1,3-Dichloropropane	<0.61	ug/L	2.0	0.61	1		09/03/08 02:09	142-28-9	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		09/03/08 02:09	106-46-7	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		09/03/08 02:09	594-20-7	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		09/03/08 02:09	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		09/03/08 02:09	106-43-4	
Benzene	<0.41	ug/L	1.0	0.41	1		09/03/08 02:09	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		09/03/08 02:09	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		09/03/08 02:09	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.9	0.56	1		09/03/08 02:09	75-27-4	
Bromoform	<0.94	ug/L	3.1	0.94	1		09/03/08 02:09	75-25-2	
Bromomethane	<0.91	ug/L	3.0	0.91	1		09/03/08 02:09	74-83-9	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		09/03/08 02:09	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		09/03/08 02:09	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		09/03/08 02:09	75-00-3	
Chloroform	<1.3	ug/L	4.3	1.3	1		09/03/08 02:09	67-66-3	
Chloromethane	<0.24	ug/L	0.80	0.24	1		09/03/08 02:09	74-87-3	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		09/03/08 02:09	124-48-1	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		09/03/08 02:09	74-95-3	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		09/03/08 02:09	75-71-8	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		09/03/08 02:09	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		09/03/08 02:09	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	1.0	0.67	1		09/03/08 02:09	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		09/03/08 02:09	98-82-8	
Methyl-tert-butyl ether	<0.61	ug/L	2.0	0.61	1		09/03/08 02:09	1634-04-4	
Methylene Chloride	<0.43	ug/L	1.4	0.43	1		09/03/08 02:09	75-09-2	
Naphthalene	<0.89	ug/L	5.0	0.89	1		09/03/08 02:09	91-20-3	
Styrene	<0.86	ug/L	1.0	0.86	1		09/03/08 02:09	100-42-5	
Tetrachloroethene	10.2	ug/L	1.0	0.45	1		09/03/08 02:09	127-18-4	

Date: 09/04/2008 07:07 AM

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### ANALYTICAL RESULTS

Project: Bask & Decorah  
Pace Project No.: 408314

Sample: MW-10      Lab ID: 408314005      Collected: 08/26/08 12:45      Received: 08/28/08 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Toluene	<0.67	ug/L	1.0	0.67	1		09/03/08 02:09	108-88-3	
Trichloroethene	0.54J	ug/L	1.0	0.48	1		09/03/08 02:09	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		09/03/08 02:09	75-69-4	
Vinyl chloride	<0.18	ug/L	0.60	0.18	1		09/03/08 02:09	75-01-4	
cis-1,2-Dichloroethene	2.6	ug/L	1.0	0.83	1		09/03/08 02:09	156-59-2	
cis-1,3-Dichloropropene	<0.20	ug/L	0.67	0.20	1		09/03/08 02:09	10061-01-5	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		09/03/08 02:09	1330-20-7	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		09/03/08 02:09	104-51-8	
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		09/03/08 02:09	103-65-1	
o-Xylene	<0.83	ug/L	1.0	0.83	1		09/03/08 02:09	95-47-6	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		09/03/08 02:09	99-87-6	
sec-Butylbenzene	<0.89	ug/L	1.0	0.89	1		09/03/08 02:09	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		09/03/08 02:09	98-06-6	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		09/03/08 02:09	156-60-5	
trans-1,3-Dichloropropene	<0.19	ug/L	0.63	0.19	1		09/03/08 02:09	10061-02-6	
4-Bromofluorobenzene (S)	101	%	64-132		1		09/03/08 02:09	460-00-4	
Dibromofluoromethane (S)	96	%	68-122		1		09/03/08 02:09	1868-53-7	
Toluene-d8 (S)	108	%	73-127		1		09/03/08 02:09	2037-26-5	

### ANALYTICAL RESULTS

Project: Bask & Decorah  
Pace Project No.: 408314

Sample: MW-3 Lab ID: 408314006 Collected: 08/26/08 14:25 Received: 08/28/08 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		09/03/08 02:32	630-20-6	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		09/03/08 02:32	71-55-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.67	0.20	1		09/03/08 02:32	79-34-5	
1,1,2-Trichloroethane	<0.42	ug/L	1.4	0.42	1		09/03/08 02:32	79-00-5	
1,1-Dichloroethane	<0.75	ug/L	1.0	0.75	1		09/03/08 02:32	75-34-3	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		09/03/08 02:32	75-35-4	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		09/03/08 02:32	563-58-6	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		09/03/08 02:32	87-61-6	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		09/03/08 02:32	96-18-4	
1,2,4-Trichlorobenzene	<0.97	ug/L	1.0	0.97	1		09/03/08 02:32	120-82-1	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		09/03/08 02:32	95-63-6	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	5.6	1.7	1		09/03/08 02:32	96-12-8	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.9	0.56	1		09/03/08 02:32	106-93-4	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		09/03/08 02:32	95-50-1	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		09/03/08 02:32	107-06-2	
1,2-Dichloropropane	<0.49	ug/L	1.0	0.49	1		09/03/08 02:32	78-87-5	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		09/03/08 02:32	108-67-8	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		09/03/08 02:32	541-73-1	
1,3-Dichloropropane	<0.61	ug/L	2.0	0.61	1		09/03/08 02:32	142-28-9	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		09/03/08 02:32	106-46-7	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		09/03/08 02:32	594-20-7	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		09/03/08 02:32	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		09/03/08 02:32	106-43-4	
Benzene	<0.41	ug/L	1.0	0.41	1		09/03/08 02:32	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		09/03/08 02:32	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		09/03/08 02:32	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.9	0.56	1		09/03/08 02:32	75-27-4	
Bromoform	<0.94	ug/L	3.1	0.94	1		09/03/08 02:32	75-25-2	
Bromomethane	<0.91	ug/L	3.0	0.91	1		09/03/08 02:32	74-83-9	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		09/03/08 02:32	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		09/03/08 02:32	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		09/03/08 02:32	75-00-3	
Chloroform	<1.3	ug/L	4.3	1.3	1		09/03/08 02:32	67-66-3	
Chloromethane	<0.24	ug/L	0.80	0.24	1		09/03/08 02:32	74-87-3	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		09/03/08 02:32	124-48-1	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		09/03/08 02:32	74-95-3	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		09/03/08 02:32	75-71-8	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		09/03/08 02:32	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		09/03/08 02:32	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	1.0	0.67	1		09/03/08 02:32	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		09/03/08 02:32	98-82-8	
Methyl-tert-butyl ether	<0.61	ug/L	2.0	0.61	1		09/03/08 02:32	1634-04-4	
Methylene Chloride	<0.43	ug/L	1.4	0.43	1		09/03/08 02:32	75-09-2	
Naphthalene	<0.89	ug/L	5.0	0.89	1		09/03/08 02:32	91-20-3	
Styrene	<0.86	ug/L	1.0	0.86	1		09/03/08 02:32	100-42-5	
Tetrachloroethene	<0.45	ug/L	1.0	0.45	1		09/03/08 02:32	127-18-4	

### ANALYTICAL RESULTS

Project: Bask & Decorah  
Pace Project No.: 408314

Sample: MW-3      Lab ID: 408314006      Collected: 08/26/08 14:25      Received: 08/28/08 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Toluene	<0.67	ug/L	1.0	0.67	1		09/03/08 02:32	108-88-3	
Trichloroethene	<0.48	ug/L	1.0	0.48	1		09/03/08 02:32	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		09/03/08 02:32	75-69-4	
Vinyl chloride	<0.18	ug/L	0.60	0.18	1		09/03/08 02:32	75-01-4	
cis-1,2-Dichloroethene	<0.83	ug/L	1.0	0.83	1		09/03/08 02:32	156-59-2	
cis-1,3-Dichloropropene	<0.20	ug/L	0.67	0.20	1		09/03/08 02:32	10061-01-5	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		09/03/08 02:32	1330-20-7	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		09/03/08 02:32	104-51-8	
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		09/03/08 02:32	103-65-1	
o-Xylene	<0.83	ug/L	1.0	0.83	1		09/03/08 02:32	95-47-6	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		09/03/08 02:32	99-87-6	
sec-Butylbenzene	<0.89	ug/L	1.0	0.89	1		09/03/08 02:32	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		09/03/08 02:32	98-06-6	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		09/03/08 02:32	156-60-5	
trans-1,3-Dichloropropene	<0.19	ug/L	0.63	0.19	1		09/03/08 02:32	10061-02-6	
4-Bromofluorobenzene (S)	100	%	64-132		1		09/03/08 02:32	460-00-4	
Dibromofluoromethane (S)	96	%	68-122		1		09/03/08 02:32	1868-53-7	
Toluene-d8 (S)	108	%	73-127		1		09/03/08 02:32	2037-26-5	

### ANALYTICAL RESULTS

Project: Bask & Decorah  
Pace Project No.: 408314

Sample: MW-8 Lab ID: 408314007 Collected: 08/26/08 15:45 Received: 08/28/08 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		09/03/08 02:55	630-20-6	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		09/03/08 02:55	71-55-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.67	0.20	1		09/03/08 02:55	79-34-5	
1,1,2-Trichloroethane	<0.42	ug/L	1.4	0.42	1		09/03/08 02:55	79-00-5	
1,1-Dichloroethane	<0.75	ug/L	1.0	0.75	1		09/03/08 02:55	75-34-3	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		09/03/08 02:55	75-35-4	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		09/03/08 02:55	563-58-6	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		09/03/08 02:55	87-61-6	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		09/03/08 02:55	96-18-4	
1,2,4-Trichlorobenzene	<0.97	ug/L	1.0	0.97	1		09/03/08 02:55	120-82-1	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		09/03/08 02:55	95-63-6	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	5.6	1.7	1		09/03/08 02:55	96-12-8	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.9	0.56	1		09/03/08 02:55	106-93-4	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		09/03/08 02:55	95-50-1	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		09/03/08 02:55	107-06-2	
1,2-Dichloropropane	<0.49	ug/L	1.0	0.49	1		09/03/08 02:55	78-87-5	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		09/03/08 02:55	108-67-8	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		09/03/08 02:55	541-73-1	
1,3-Dichloropropane	<0.61	ug/L	2.0	0.61	1		09/03/08 02:55	142-28-9	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		09/03/08 02:55	106-46-7	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		09/03/08 02:55	594-20-7	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		09/03/08 02:55	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		09/03/08 02:55	106-43-4	
Benzene	<0.41	ug/L	1.0	0.41	1		09/03/08 02:55	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		09/03/08 02:55	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		09/03/08 02:55	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.9	0.56	1		09/03/08 02:55	75-27-4	
Bromoform	<0.94	ug/L	3.1	0.94	1		09/03/08 02:55	75-25-2	
Bromomethane	<0.91	ug/L	3.0	0.91	1		09/03/08 02:55	74-83-9	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		09/03/08 02:55	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		09/03/08 02:55	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		09/03/08 02:55	75-00-3	
Chloroform	<1.3	ug/L	4.3	1.3	1		09/03/08 02:55	67-66-3	
Chloromethane	<0.24	ug/L	0.80	0.24	1		09/03/08 02:55	74-87-3	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		09/03/08 02:55	124-48-1	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		09/03/08 02:55	74-95-3	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		09/03/08 02:55	75-71-8	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		09/03/08 02:55	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		09/03/08 02:55	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	1.0	0.67	1		09/03/08 02:55	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		09/03/08 02:55	98-82-8	
Methyl-tert-butyl ether	<0.61	ug/L	2.0	0.61	1		09/03/08 02:55	1634-04-4	
Methylene Chloride	<0.43	ug/L	1.4	0.43	1		09/03/08 02:55	75-09-2	
Naphthalene	<0.89	ug/L	5.0	0.89	1		09/03/08 02:55	91-20-3	
Styrene	<0.86	ug/L	1.0	0.86	1		09/03/08 02:55	100-42-5	
Tetrachloroethene	<0.45	ug/L	1.0	0.45	1		09/03/08 02:55	127-18-4	

Date: 09/04/2008 07:07 AM

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Bask & Decorah  
Pace Project No.: 408314

Sample: MW-8      Lab ID: 408314007      Collected: 08/26/08 15:45      Received: 08/28/08 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Toluene	<0.67	ug/L	1.0	0.67	1		09/03/08 02:55	108-88-3	
Trichloroethene	<0.48	ug/L	1.0	0.48	1		09/03/08 02:55	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		09/03/08 02:55	75-69-4	
Vinyl chloride	<0.18	ug/L	0.60	0.18	1		09/03/08 02:55	75-01-4	
cis-1,2-Dichloroethene	<0.83	ug/L	1.0	0.83	1		09/03/08 02:55	156-59-2	
cis-1,3-Dichloropropene	<0.20	ug/L	0.67	0.20	1		09/03/08 02:55	10061-01-5	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		09/03/08 02:55	1330-20-7	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		09/03/08 02:55	104-51-8	
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		09/03/08 02:55	103-65-1	
o-Xylene	<0.83	ug/L	1.0	0.83	1		09/03/08 02:55	95-47-6	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		09/03/08 02:55	99-87-6	
sec-Butylbenzene	<0.89	ug/L	1.0	0.89	1		09/03/08 02:55	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		09/03/08 02:55	98-06-6	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		09/03/08 02:55	156-60-5	
trans-1,3-Dichloropropene	<0.19	ug/L	0.63	0.19	1		09/03/08 02:55	10061-02-6	
4-Bromofluorobenzene (S)	101	%	64-132		1		09/03/08 02:55	460-00-4	
Dibromofluoromethane (S)	101	%	68-122		1		09/03/08 02:55	1868-53-7	
Toluene-d8 (S)	109	%	73-127		1		09/03/08 02:55	2037-26-5	

### ANALYTICAL RESULTS

Project: Bask & Decorah

Pace Project No.: 408314

Sample: MW-7 Lab ID: 408314008 Collected: 08/26/08 17:05 Received: 08/28/08 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		09/03/08 03:17	630-20-6	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		09/03/08 03:17	71-55-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.67	0.20	1		09/03/08 03:17	79-34-5	
1,1,2-Trichloroethane	<0.42	ug/L	1.4	0.42	1		09/03/08 03:17	79-00-5	
1,1-Dichloroethane	<0.75	ug/L	1.0	0.75	1		09/03/08 03:17	75-34-3	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		09/03/08 03:17	75-35-4	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		09/03/08 03:17	563-58-6	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		09/03/08 03:17	87-61-6	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		09/03/08 03:17	96-18-4	
1,2,4-Trichlorobenzene	<0.97	ug/L	1.0	0.97	1		09/03/08 03:17	120-82-1	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		09/03/08 03:17	95-63-6	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	5.6	1.7	1		09/03/08 03:17	96-12-8	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.9	0.56	1		09/03/08 03:17	106-93-4	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		09/03/08 03:17	95-50-1	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		09/03/08 03:17	107-06-2	
1,2-Dichloropropane	<0.49	ug/L	1.0	0.49	1		09/03/08 03:17	78-87-5	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		09/03/08 03:17	108-67-8	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		09/03/08 03:17	541-73-1	
1,3-Dichloropropane	<0.61	ug/L	2.0	0.61	1		09/03/08 03:17	142-28-9	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		09/03/08 03:17	106-46-7	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		09/03/08 03:17	594-20-7	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		09/03/08 03:17	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		09/03/08 03:17	106-43-4	
Benzene	<0.41	ug/L	1.0	0.41	1		09/03/08 03:17	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		09/03/08 03:17	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		09/03/08 03:17	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.9	0.56	1		09/03/08 03:17	75-27-4	
Bromoform	<0.94	ug/L	3.1	0.94	1		09/03/08 03:17	75-25-2	
Bromomethane	<0.91	ug/L	3.0	0.91	1		09/03/08 03:17	74-83-9	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		09/03/08 03:17	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		09/03/08 03:17	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		09/03/08 03:17	75-00-3	
Chloroform	<1.3	ug/L	4.3	1.3	1		09/03/08 03:17	67-66-3	
Chloromethane	<0.24	ug/L	0.80	0.24	1		09/03/08 03:17	74-87-3	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		09/03/08 03:17	124-48-1	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		09/03/08 03:17	74-95-3	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		09/03/08 03:17	75-71-8	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		09/03/08 03:17	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		09/03/08 03:17	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	1.0	0.67	1		09/03/08 03:17	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		09/03/08 03:17	98-82-8	
Methyl-tert-butyl ether	<0.61	ug/L	2.0	0.61	1		09/03/08 03:17	1634-04-4	
Methylene Chloride	<0.43	ug/L	1.4	0.43	1		09/03/08 03:17	75-09-2	
Naphthalene	<0.89	ug/L	5.0	0.89	1		09/03/08 03:17	91-20-3	
Styrene	<0.86	ug/L	1.0	0.86	1		09/03/08 03:17	100-42-5	
Tetrachloroethene	37.2	ug/L	1.0	0.45	1		09/03/08 03:17	127-18-4	

Date: 09/04/2008 07:07 AM

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### ANALYTICAL RESULTS

Project: Bask & Decorah  
Pace Project No.: 408314

Sample: MW-7 Lab ID: 408314008 Collected: 08/26/08 17:05 Received: 08/28/08 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Toluene	<0.67	ug/L	1.0	0.67	1		09/03/08 03:17	108-88-3	
Trichloroethene	1.2	ug/L	1.0	0.48	1		09/03/08 03:17	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		09/03/08 03:17	75-69-4	
Vinyl chloride	<0.18	ug/L	0.60	0.18	1		09/03/08 03:17	75-01-4	
cis-1,2-Dichloroethene	<0.83	ug/L	1.0	0.83	1		09/03/08 03:17	156-59-2	
cis-1,3-Dichloropropene	<0.20	ug/L	0.67	0.20	1		09/03/08 03:17	10061-01-5	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		09/03/08 03:17	1330-20-7	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		09/03/08 03:17	104-51-8	
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		09/03/08 03:17	103-65-1	
o-Xylene	<0.83	ug/L	1.0	0.83	1		09/03/08 03:17	95-47-6	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		09/03/08 03:17	99-87-6	
sec-Butylbenzene	<0.89	ug/L	1.0	0.89	1		09/03/08 03:17	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		09/03/08 03:17	98-06-6	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		09/03/08 03:17	156-60-5	
trans-1,3-Dichloropropene	<0.19	ug/L	0.63	0.19	1		09/03/08 03:17	10061-02-6	
4-Bromofluorobenzene (S)	100	%	64-132		1		09/03/08 03:17	460-00-4	
Dibromofluoromethane (S)	97	%	68-122		1		09/03/08 03:17	1868-53-7	
Toluene-d8 (S)	106	%	73-127		1		09/03/08 03:17	2037-26-5	

### ANALYTICAL RESULTS

Project: Bask & Decorah  
Pace Project No.: 408314

Sample: MW-12      Lab ID: 408314009      Collected: 08/27/08 10:05      Received: 08/28/08 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		09/03/08 03:40	630-20-6	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		09/03/08 03:40	71-55-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.67	0.20	1		09/03/08 03:40	79-34-5	
1,1,2-Trichloroethane	<0.42	ug/L	1.4	0.42	1		09/03/08 03:40	79-00-5	
1,1-Dichloroethane	<0.75	ug/L	1.0	0.75	1		09/03/08 03:40	75-34-3	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		09/03/08 03:40	75-35-4	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		09/03/08 03:40	563-58-6	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		09/03/08 03:40	87-61-6	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		09/03/08 03:40	96-18-4	
1,2,4-Trichlorobenzene	<0.97	ug/L	1.0	0.97	1		09/03/08 03:40	120-82-1	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		09/03/08 03:40	95-63-6	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	5.6	1.7	1		09/03/08 03:40	96-12-8	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.9	0.56	1		09/03/08 03:40	106-93-4	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		09/03/08 03:40	95-50-1	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		09/03/08 03:40	107-06-2	
1,2-Dichloropropane	<0.49	ug/L	1.0	0.49	1		09/03/08 03:40	78-87-5	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		09/03/08 03:40	108-67-8	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		09/03/08 03:40	541-73-1	
1,3-Dichloropropane	<0.61	ug/L	2.0	0.61	1		09/03/08 03:40	142-28-9	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		09/03/08 03:40	106-46-7	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		09/03/08 03:40	594-20-7	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		09/03/08 03:40	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		09/03/08 03:40	106-43-4	
Benzene	<0.41	ug/L	1.0	0.41	1		09/03/08 03:40	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		09/03/08 03:40	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		09/03/08 03:40	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.9	0.56	1		09/03/08 03:40	75-27-4	
Bromoform	<0.94	ug/L	3.1	0.94	1		09/03/08 03:40	75-25-2	
Bromomethane	<0.91	ug/L	3.0	0.91	1		09/03/08 03:40	74-83-9	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		09/03/08 03:40	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		09/03/08 03:40	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		09/03/08 03:40	75-00-3	
Chloroform	<1.3	ug/L	4.3	1.3	1		09/03/08 03:40	67-66-3	
Chloromethane	<0.24	ug/L	0.80	0.24	1		09/03/08 03:40	74-87-3	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		09/03/08 03:40	124-48-1	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		09/03/08 03:40	74-95-3	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		09/03/08 03:40	75-71-8	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		09/03/08 03:40	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		09/03/08 03:40	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	1.0	0.67	1		09/03/08 03:40	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		09/03/08 03:40	98-82-8	
Methyl-tert-butyl ether	<0.61	ug/L	2.0	0.61	1		09/03/08 03:40	1634-04-4	
Methylene Chloride	<0.43	ug/L	1.4	0.43	1		09/03/08 03:40	75-09-2	
Naphthalene	<0.89	ug/L	5.0	0.89	1		09/03/08 03:40	91-20-3	
Styrene	<0.86	ug/L	1.0	0.86	1		09/03/08 03:40	100-42-5	
Tetrachloroethene	18.1	ug/L	1.0	0.45	1		09/03/08 03:40	127-18-4	



### ANALYTICAL RESULTS

Project: Bask & Decorah  
Pace Project No.: 408314

Sample: MW-12      Lab ID: 408314009      Collected: 08/27/08 10:05      Received: 08/28/08 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Toluene	<0.67	ug/L	1.0	0.67	1		09/03/08 03:40	108-88-3	
Trichloroethene	2.5	ug/L	1.0	0.48	1		09/03/08 03:40	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		09/03/08 03:40	75-69-4	
Vinyl chloride	<0.18	ug/L	0.60	0.18	1		09/03/08 03:40	75-01-4	
cis-1,2-Dichloroethene	1.9	ug/L	1.0	0.83	1		09/03/08 03:40	156-59-2	
cis-1,3-Dichloropropene	<0.20	ug/L	0.67	0.20	1		09/03/08 03:40	10061-01-5	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		09/03/08 03:40	1330-20-7	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		09/03/08 03:40	104-51-8	
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		09/03/08 03:40	103-65-1	
o-Xylene	<0.83	ug/L	1.0	0.83	1		09/03/08 03:40	95-47-6	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		09/03/08 03:40	99-87-6	
sec-Butylbenzene	<0.89	ug/L	1.0	0.89	1		09/03/08 03:40	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		09/03/08 03:40	98-06-6	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		09/03/08 03:40	156-60-5	
trans-1,3-Dichloropropene	<0.19	ug/L	0.63	0.19	1		09/03/08 03:40	10061-02-6	
4-Bromofluorobenzene (S)	99 %		64-132		1		09/03/08 03:40	460-00-4	
Dibromofluoromethane (S)	97 %		68-122		1		09/03/08 03:40	1868-53-7	
Toluene-d8 (S)	108 %		73-127		1		09/03/08 03:40	2037-26-5	

### ANALYTICAL RESULTS

Project: Bask & Decorah  
Pace Project No.: 408314

Sample: MW-13      Lab ID: 408314010      Collected: 08/27/08 11:40      Received: 08/28/08 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		09/03/08 04:03	630-20-6	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		09/03/08 04:03	71-55-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.67	0.20	1		09/03/08 04:03	79-34-5	
1,1,2-Trichloroethane	<0.42	ug/L	1.4	0.42	1		09/03/08 04:03	79-00-5	
1,1-Dichloroethane	<0.75	ug/L	1.0	0.75	1		09/03/08 04:03	75-34-3	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		09/03/08 04:03	75-35-4	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		09/03/08 04:03	563-58-6	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		09/03/08 04:03	87-61-6	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		09/03/08 04:03	96-18-4	
1,2,4-Trichlorobenzene	<0.97	ug/L	1.0	0.97	1		09/03/08 04:03	120-82-1	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		09/03/08 04:03	95-63-6	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	5.6	1.7	1		09/03/08 04:03	96-12-8	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.9	0.56	1		09/03/08 04:03	106-93-4	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		09/03/08 04:03	95-50-1	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		09/03/08 04:03	107-06-2	
1,2-Dichloropropane	<0.49	ug/L	1.0	0.49	1		09/03/08 04:03	78-87-5	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		09/03/08 04:03	108-67-8	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		09/03/08 04:03	541-73-1	
1,3-Dichloropropane	<0.61	ug/L	2.0	0.61	1		09/03/08 04:03	142-28-9	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		09/03/08 04:03	106-46-7	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		09/03/08 04:03	594-20-7	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		09/03/08 04:03	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		09/03/08 04:03	106-43-4	
Benzene	<0.41	ug/L	1.0	0.41	1		09/03/08 04:03	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		09/03/08 04:03	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		09/03/08 04:03	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.9	0.56	1		09/03/08 04:03	75-27-4	
Bromoform	<0.94	ug/L	3.1	0.94	1		09/03/08 04:03	75-25-2	
Bromomethane	<0.91	ug/L	3.0	0.91	1		09/03/08 04:03	74-83-9	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		09/03/08 04:03	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		09/03/08 04:03	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		09/03/08 04:03	75-00-3	
Chloroform	<1.3	ug/L	4.3	1.3	1		09/03/08 04:03	67-66-3	
Chloromethane	<0.24	ug/L	0.80	0.24	1		09/03/08 04:03	74-87-3	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		09/03/08 04:03	124-48-1	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		09/03/08 04:03	74-95-3	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		09/03/08 04:03	75-71-8	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		09/03/08 04:03	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		09/03/08 04:03	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	1.0	0.67	1		09/03/08 04:03	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		09/03/08 04:03	98-82-8	
Methyl-tert-butyl ether	<0.61	ug/L	2.0	0.61	1		09/03/08 04:03	1634-04-4	
Methylene Chloride	<0.43	ug/L	1.4	0.43	1		09/03/08 04:03	75-09-2	
Naphthalene	<0.89	ug/L	5.0	0.89	1		09/03/08 04:03	91-20-3	
Styrene	<0.86	ug/L	1.0	0.86	1		09/03/08 04:03	100-42-5	
Tetrachloroethene	<0.45	ug/L	1.0	0.45	1		09/03/08 04:03	127-18-4	

Date: 09/04/2008 07:07 AM

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**ANALYTICAL RESULTS**

Project: Bask & Decorah  
Pace Project No.: 408314

Sample: MW-13      Lab ID: 408314010      Collected: 08/27/08 11:40      Received: 08/28/08 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Toluene	<0.67	ug/L	1.0	0.67	1		09/03/08 04:03	108-88-3	
Trichloroethene	<0.48	ug/L	1.0	0.48	1		09/03/08 04:03	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		09/03/08 04:03	75-69-4	
Vinyl chloride	<0.18	ug/L	0.60	0.18	1		09/03/08 04:03	75-01-4	
cis-1,2-Dichloroethene	1.7	ug/L	1.0	0.83	1		09/03/08 04:03	156-59-2	
cis-1,3-Dichloropropene	<0.20	ug/L	0.67	0.20	1		09/03/08 04:03	10061-01-5	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		09/03/08 04:03	1330-20-7	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		09/03/08 04:03	104-51-8	
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		09/03/08 04:03	103-65-1	
o-Xylene	<0.83	ug/L	1.0	0.83	1		09/03/08 04:03	95-47-6	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		09/03/08 04:03	99-87-6	
sec-Butylbenzene	<0.89	ug/L	1.0	0.89	1		09/03/08 04:03	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		09/03/08 04:03	98-06-6	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		09/03/08 04:03	156-60-5	
trans-1,3-Dichloropropene	<0.19	ug/L	0.63	0.19	1		09/03/08 04:03	10061-02-6	
4-Bromofluorobenzene (S)	100 %		64-132		1		09/03/08 04:03	460-00-4	
Dibromofluoromethane (S)	99 %		68-122		1		09/03/08 04:03	1868-53-7	
Toluene-d8 (S)	108 %		73-127		1		09/03/08 04:03	2037-26-5	



## ANALYTICAL RESULTS

Project: Bask & Decorah  
Pace Project No.: 408314

Sample: MW-6      Lab ID: 408314011      Collected: 08/27/08 12:00      Received: 08/28/08 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<9.2 ug/L		10.0	9.2	10		09/03/08 11:54	630-20-6	
1,1,1-Trichloroethane	<9.0 ug/L		10.0	9.0	10		09/03/08 11:54	71-55-6	
1,1,2,2-Tetrachloroethane	<2.0 ug/L		6.7	2.0	10		09/03/08 11:54	79-34-5	
1,1,2-Trichloroethane	<4.2 ug/L		14.0	4.2	10		09/03/08 11:54	79-00-5	
1,1-Dichloroethane	<7.5 ug/L		10.0	7.5	10		09/03/08 11:54	75-34-3	
1,1-Dichloroethene	<5.7 ug/L		10.0	5.7	10		09/03/08 11:54	75-35-4	
1,1-Dichloropropene	<7.5 ug/L		10.0	7.5	10		09/03/08 11:54	563-58-6	
1,2,3-Trichlorobenzene	<7.4 ug/L		10.0	7.4	10		09/03/08 11:54	87-61-6	
1,2,3-Trichloropropane	<9.9 ug/L		10.0	9.9	10		09/03/08 11:54	96-18-4	
1,2,4-Trichlorobenzene	<9.7 ug/L		10.0	9.7	10		09/03/08 11:54	120-82-1	
1,2,4-Trimethylbenzene	<9.7 ug/L		10.0	9.7	10		09/03/08 11:54	95-63-6	
1,2-Dibromo-3-chloropropane	<16.8 ug/L		56.0	16.8	10		09/03/08 11:54	96-12-8	
1,2-Dibromoethane (EDB)	<5.6 ug/L		18.7	5.6	10		09/03/08 11:54	106-93-4	
1,2-Dichlorobenzene	<8.3 ug/L		10.0	8.3	10		09/03/08 11:54	95-50-1	
1,2-Dichloroethane	<3.6 ug/L		10.0	3.6	10		09/03/08 11:54	107-06-2	
1,2-Dichloropropane	<4.9 ug/L		10.0	4.9	10		09/03/08 11:54	78-87-5	
1,3,5-Trimethylbenzene	<8.3 ug/L		10.0	8.3	10		09/03/08 11:54	108-67-8	
1,3-Dichlorobenzene	<8.7 ug/L		10.0	8.7	10		09/03/08 11:54	541-73-1	
1,3-Dichloropropane	<6.1 ug/L		20.3	6.1	10		09/03/08 11:54	142-28-9	
1,4-Dichlorobenzene	<9.5 ug/L		10.0	9.5	10		09/03/08 11:54	106-46-7	
2,2-Dichloropropane	<6.2 ug/L		10.0	6.2	10		09/03/08 11:54	594-20-7	
2-Chlorotoluene	<8.5 ug/L		10.0	8.5	10		09/03/08 11:54	95-49-8	
4-Chlorotoluene	<7.4 ug/L		10.0	7.4	10		09/03/08 11:54	106-43-4	
Benzene	<4.1 ug/L		10.0	4.1	10		09/03/08 11:54	71-43-2	
Bromobenzene	<8.2 ug/L		10.0	8.2	10		09/03/08 11:54	108-86-1	
Bromochloromethane	<9.7 ug/L		10.0	9.7	10		09/03/08 11:54	74-97-5	
Bromodichloromethane	<5.6 ug/L		18.7	5.6	10		09/03/08 11:54	75-27-4	
Bromoform	<9.4 ug/L		31.3	9.4	10		09/03/08 11:54	75-25-2	
Bromomethane	<9.1 ug/L		30.3	9.1	10		09/03/08 11:54	74-83-9	
Carbon tetrachloride	<4.9 ug/L		10.0	4.9	10		09/03/08 11:54	56-23-5	
Chlorobenzene	<4.1 ug/L		10.0	4.1	10		09/03/08 11:54	108-90-7	
Chloroethane	<9.7 ug/L		10.0	9.7	10		09/03/08 11:54	75-00-3	
Chloroform	<13.0 ug/L		43.3	13.0	10		09/03/08 11:54	67-66-3	
Chloromethane	<2.4 ug/L		8.0	2.4	10		09/03/08 11:54	74-87-3	
Dibromochloromethane	<8.1 ug/L		10.0	8.1	10		09/03/08 11:54	124-48-1	
Dibromomethane	<6.0 ug/L		10.0	6.0	10		09/03/08 11:54	74-95-3	
Dichlorodifluoromethane	<9.9 ug/L		10.0	9.9	10		09/03/08 11:54	75-71-8	
Diisopropyl ether	<7.6 ug/L		10.0	7.6	10		09/03/08 11:54	108-20-3	
Ethylbenzene	<5.4 ug/L		10.0	5.4	10		09/03/08 11:54	100-41-4	
Hexachloro-1,3-butadiene	<6.7 ug/L		10.0	6.7	10		09/03/08 11:54	87-68-3	
Isopropylbenzene (Cumene)	<5.9 ug/L		10.0	5.9	10		09/03/08 11:54	98-82-8	
Methyl-tert-butyl ether	<6.1 ug/L		20.3	6.1	10		09/03/08 11:54	1634-04-4	
Methylene Chloride	<4.3 ug/L		14.3	4.3	10		09/03/08 11:54	75-09-2	
Naphthalene	<8.9 ug/L		50.0	8.9	10		09/03/08 11:54	91-20-3	
Styrene	<8.6 ug/L		10.0	8.6	10		09/03/08 11:54	100-42-5	
Tetrachloroethene	1250 ug/L		10.0	4.5	10		09/03/08 11:54	127-18-4	

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### ANALYTICAL RESULTS

Project: Bask & Decorah  
Pace Project No.: 408314

Sample: MW-6 Lab ID: 408314011 Collected: 08/27/08 12:00 Received: 08/28/08 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Toluene	<6.7	ug/L	10.0	6.7	10		09/03/08 11:54	108-88-3	
Trichloroethene	10.6	ug/L	10.0	4.8	10		09/03/08 11:54	79-01-6	
Trichlorofluoromethane	<7.9	ug/L	10.0	7.9	10		09/03/08 11:54	75-69-4	
Vinyl chloride	<1.8	ug/L	6.0	1.8	10		09/03/08 11:54	75-01-4	
cis-1,2-Dichloroethene	28.0	ug/L	10.0	8.3	10		09/03/08 11:54	156-59-2	
cis-1,3-Dichloropropene	<2.0	ug/L	6.7	2.0	10		09/03/08 11:54	10061-01-5	
m&p-Xylene	<18.0	ug/L	20.0	18.0	10		09/03/08 11:54	1330-20-7	
n-Butylbenzene	<9.3	ug/L	10.0	9.3	10		09/03/08 11:54	104-51-8	
n-Propylbenzene	<8.1	ug/L	10.0	8.1	10		09/03/08 11:54	103-65-1	
o-Xylene	<8.3	ug/L	10.0	8.3	10		09/03/08 11:54	95-47-6	
p-Isopropyltoluene	<6.7	ug/L	10.0	6.7	10		09/03/08 11:54	99-87-6	
sec-Butylbenzene	<8.9	ug/L	10.0	8.9	10		09/03/08 11:54	135-98-8	
tert-Butylbenzene	<9.7	ug/L	10.0	9.7	10		09/03/08 11:54	98-06-6	
trans-1,2-Dichloroethene	<8.9	ug/L	10.0	8.9	10		09/03/08 11:54	156-60-5	
trans-1,3-Dichloropropene	<1.9	ug/L	6.3	1.9	10		09/03/08 11:54	10061-02-6	
4-Bromofluorobenzene (S)	98	%	64-132		10		09/03/08 11:54	460-00-4	
Dibromofluoromethane (S)	98	%	68-122		10		09/03/08 11:54	1868-53-7	
Toluene-d8 (S)	108	%	73-127		10		09/03/08 11:54	2037-26-5	

## ANALYTICAL RESULTS

Project: Bask & Decorah  
Pace Project No.: 408314

Sample: MW-4      Lab ID: 408314012      Collected: 08/27/08 13:45      Received: 08/28/08 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		09/03/08 09:38	630-20-6	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		09/03/08 09:38	71-55-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.67	0.20	1		09/03/08 09:38	79-34-5	
1,1,2-Trichloroethane	<0.42	ug/L	1.4	0.42	1		09/03/08 09:38	79-00-5	
1,1-Dichloroethane	<0.75	ug/L	1.0	0.75	1		09/03/08 09:38	75-34-3	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		09/03/08 09:38	75-35-4	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		09/03/08 09:38	563-58-6	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		09/03/08 09:38	87-61-6	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		09/03/08 09:38	96-18-4	
1,2,4-Trichlorobenzene	<0.97	ug/L	1.0	0.97	1		09/03/08 09:38	120-82-1	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		09/03/08 09:38	95-63-6	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	5.6	1.7	1		09/03/08 09:38	96-12-8	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.9	0.56	1		09/03/08 09:38	106-93-4	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		09/03/08 09:38	95-50-1	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		09/03/08 09:38	107-06-2	
1,2-Dichloropropane	<0.49	ug/L	1.0	0.49	1		09/03/08 09:38	78-87-5	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		09/03/08 09:38	108-67-8	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		09/03/08 09:38	541-73-1	
1,3-Dichloropropane	<0.61	ug/L	2.0	0.61	1		09/03/08 09:38	142-28-9	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		09/03/08 09:38	106-46-7	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		09/03/08 09:38	594-20-7	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		09/03/08 09:38	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		09/03/08 09:38	106-43-4	
Benzene	<0.41	ug/L	1.0	0.41	1		09/03/08 09:38	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		09/03/08 09:38	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		09/03/08 09:38	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.9	0.56	1		09/03/08 09:38	75-27-4	
Bromoform	<0.94	ug/L	3.1	0.94	1		09/03/08 09:38	75-25-2	
Bromomethane	<0.91	ug/L	3.0	0.91	1		09/03/08 09:38	74-83-9	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		09/03/08 09:38	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		09/03/08 09:38	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		09/03/08 09:38	75-00-3	
Chloroform	<1.3	ug/L	4.3	1.3	1		09/03/08 09:38	67-66-3	
Chloromethane	<0.24	ug/L	0.80	0.24	1		09/03/08 09:38	74-87-3	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		09/03/08 09:38	124-48-1	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		09/03/08 09:38	74-95-3	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		09/03/08 09:38	75-71-8	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		09/03/08 09:38	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		09/03/08 09:38	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	1.0	0.67	1		09/03/08 09:38	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		09/03/08 09:38	98-82-8	
Methyl-tert-butyl ether	<0.61	ug/L	2.0	0.61	1		09/03/08 09:38	1634-04-4	
Methylene Chloride	<0.43	ug/L	1.4	0.43	1		09/03/08 09:38	75-09-2	
Naphthalene	<0.89	ug/L	5.0	0.89	1		09/03/08 09:38	91-20-3	
Styrene	<0.86	ug/L	1.0	0.86	1		09/03/08 09:38	100-42-5	
Tetrachloroethene	0.96J	ug/L	1.0	0.45	1		09/03/08 09:38	127-18-4	

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### ANALYTICAL RESULTS

Project: Bask & Decorah  
Pace Project No.: 408314

Sample: MW-5      Lab ID: 408314013      Collected: 08/27/08 15:00      Received: 08/28/08 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<23.0	ug/L	25.0	23.0	25		09/03/08 12:16	630-20-6	
1,1,1-Trichloroethane	<22.5	ug/L	25.0	22.5	25		09/03/08 12:16	71-55-6	
1,1,2,2-Tetrachloroethane	<5.0	ug/L	16.7	5.0	25		09/03/08 12:16	79-34-5	
1,1,2-Trichloroethane	<10.5	ug/L	35.0	10.5	25		09/03/08 12:16	79-00-5	
1,1-Dichloroethane	<18.8	ug/L	25.0	18.8	25		09/03/08 12:16	75-34-3	
1,1-Dichloroethene	<14.2	ug/L	25.0	14.2	25		09/03/08 12:16	75-35-4	
1,1-Dichloropropene	<18.8	ug/L	25.0	18.8	25		09/03/08 12:16	563-58-6	
1,2,3-Trichlorobenzene	<18.5	ug/L	25.0	18.5	25		09/03/08 12:16	87-61-6	
1,2,3-Trichloropropane	<24.8	ug/L	25.0	24.8	25		09/03/08 12:16	96-18-4	
1,2,4-Trichlorobenzene	<24.2	ug/L	25.0	24.2	25		09/03/08 12:16	120-82-1	
1,2,4-Trimethylbenzene	<24.2	ug/L	25.0	24.2	25		09/03/08 12:16	95-63-6	
1,2-Dibromo-3-chloropropane	<42.0	ug/L	140	42.0	25		09/03/08 12:16	96-12-8	
1,2-Dibromoethane (EDB)	<14.0	ug/L	46.7	14.0	25		09/03/08 12:16	106-93-4	
1,2-Dichlorobenzene	<20.8	ug/L	25.0	20.8	25		09/03/08 12:16	95-50-1	
1,2-Dichloroethane	<9.0	ug/L	25.0	9.0	25		09/03/08 12:16	107-06-2	
1,2-Dichloropropane	<12.2	ug/L	25.0	12.2	25		09/03/08 12:16	78-87-5	
1,3,5-Trimethylbenzene	<20.8	ug/L	25.0	20.8	25		09/03/08 12:16	108-67-8	
1,3-Dichlorobenzene	<21.8	ug/L	25.0	21.8	25		09/03/08 12:16	541-73-1	
1,3-Dichloropropane	<15.2	ug/L	50.8	15.2	25		09/03/08 12:16	142-28-9	
1,4-Dichlorobenzene	<23.8	ug/L	25.0	23.8	25		09/03/08 12:16	106-46-7	
2,2-Dichloropropane	<15.5	ug/L	25.0	15.5	25		09/03/08 12:16	594-20-7	
2-Chlorotoluene	<21.2	ug/L	25.0	21.2	25		09/03/08 12:16	95-49-8	
4-Chlorotoluene	<18.5	ug/L	25.0	18.5	25		09/03/08 12:16	106-43-4	
Benzene	<10.2	ug/L	25.0	10.2	25		09/03/08 12:16	71-43-2	
Bromobenzene	<20.5	ug/L	25.0	20.5	25		09/03/08 12:16	108-86-1	
Bromochloromethane	<24.2	ug/L	25.0	24.2	25		09/03/08 12:16	74-97-5	
Bromodichloromethane	<14.0	ug/L	46.7	14.0	25		09/03/08 12:16	75-27-4	
Bromoform	<23.5	ug/L	78.3	23.5	25		09/03/08 12:16	75-25-2	
Bromomethane	<22.8	ug/L	75.8	22.8	25		09/03/08 12:16	74-83-9	
Carbon tetrachloride	<12.2	ug/L	25.0	12.2	25		09/03/08 12:16	56-23-5	
Chlorobenzene	<10.2	ug/L	25.0	10.2	25		09/03/08 12:16	108-90-7	
Chloroethane	<24.2	ug/L	25.0	24.2	25		09/03/08 12:16	75-00-3	
Chloroform	<32.5	ug/L	108	32.5	25		09/03/08 12:16	67-66-3	
Chloromethane	<6.0	ug/L	20.0	6.0	25		09/03/08 12:16	74-87-3	
Dibromochloromethane	<20.2	ug/L	25.0	20.2	25		09/03/08 12:16	124-48-1	
Dibromomethane	<15.0	ug/L	25.0	15.0	25		09/03/08 12:16	74-95-3	
Dichlorodifluoromethane	<24.8	ug/L	25.0	24.8	25		09/03/08 12:16	75-71-8	
Diisopropyl ether	<19.0	ug/L	25.0	19.0	25		09/03/08 12:16	108-20-3	
Ethylbenzene	<13.5	ug/L	25.0	13.5	25		09/03/08 12:16	100-41-4	
Hexachloro-1,3-butadiene	<16.8	ug/L	25.0	16.8	25		09/03/08 12:16	87-68-3	
Isopropylbenzene (Cumene)	<14.8	ug/L	25.0	14.8	25		09/03/08 12:16	98-82-8	
Methyl-tert-butyl ether	<15.2	ug/L	50.8	15.2	25		09/03/08 12:16	1634-04-4	
Methylene Chloride	<10.8	ug/L	35.8	10.8	25		09/03/08 12:16	75-09-2	
Naphthalene	<22.2	ug/L	125	22.2	25		09/03/08 12:16	91-20-3	
Styrene	<21.5	ug/L	25.0	21.5	25		09/03/08 12:16	100-42-5	
Tetrachloroethene	2270	ug/L	25.0	11.2	25		09/03/08 12:16	127-18-4	

Date: 09/04/2008 07:07 AM

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### ANALYTICAL RESULTS

Project: Bask & Decorah  
Pace Project No.: 408314

Sample: MW-5      Lab ID: 408314013      Collected: 08/27/08 15:00      Received: 08/28/08 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Toluene	<16.8	ug/L	25.0	16.8	25		09/03/08 12:16	108-88-3	
Trichloroethene	<12.0	ug/L	25.0	12.0	25		09/03/08 12:16	79-01-6	
Trichlorofluoromethane	<19.8	ug/L	25.0	19.8	25		09/03/08 12:16	75-69-4	
Vinyl chloride	<4.5	ug/L	15.0	4.5	25		09/03/08 12:16	75-01-4	
cis-1,2-Dichloroethene	<20.8	ug/L	25.0	20.8	25		09/03/08 12:16	156-59-2	
cis-1,3-Dichloropropene	<5.0	ug/L	16.7	5.0	25		09/03/08 12:16	10061-01-5	
m&p-Xylene	<45.0	ug/L	50.0	45.0	25		09/03/08 12:16	1330-20-7	
n-Butylbenzene	<23.2	ug/L	25.0	23.2	25		09/03/08 12:16	104-51-8	
n-Propylbenzene	<20.2	ug/L	25.0	20.2	25		09/03/08 12:16	103-65-1	
o-Xylene	<20.8	ug/L	25.0	20.8	25		09/03/08 12:16	95-47-6	
p-Isopropyltoluene	<16.8	ug/L	25.0	16.8	25		09/03/08 12:16	99-87-6	
sec-Butylbenzene	<22.2	ug/L	25.0	22.2	25		09/03/08 12:16	135-98-8	
tert-Butylbenzene	<24.2	ug/L	25.0	24.2	25		09/03/08 12:16	98-06-6	
trans-1,2-Dichloroethene	<22.2	ug/L	25.0	22.2	25		09/03/08 12:16	156-60-5	
trans-1,3-Dichloropropene	<4.8	ug/L	15.8	4.8	25		09/03/08 12:16	10061-02-6	
4-Bromofluorobenzene (S)	99 %		64-132		25		09/03/08 12:16	460-00-4	
Dibromofluoromethane (S)	99 %		68-122		25		09/03/08 12:16	1868-53-7	
Toluene-d8 (S)	107 %		73-127		25		09/03/08 12:16	2037-26-5	

### ANALYTICAL RESULTS

Project: Bask & Decorah  
Pace Project No.: 408314

Sample: DUP-A      Lab ID: 408314014      Collected: 08/27/08 00:00      Received: 08/28/08 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<36.8	ug/L	40.0	36.8	40		09/03/08 12:39	630-20-6	
1,1,1-Trichloroethane	<36.0	ug/L	40.0	36.0	40		09/03/08 12:39	71-55-6	
1,1,2,2-Tetrachloroethane	<8.0	ug/L	26.7	8.0	40		09/03/08 12:39	79-34-5	
1,1,2-Trichloroethane	<16.8	ug/L	56.0	16.8	40		09/03/08 12:39	79-00-5	
1,1-Dichloroethane	<30.0	ug/L	40.0	30.0	40		09/03/08 12:39	75-34-3	
1,1-Dichloroethene	<22.8	ug/L	40.0	22.8	40		09/03/08 12:39	75-35-4	
1,1-Dichloropropene	<30.0	ug/L	40.0	30.0	40		09/03/08 12:39	563-58-6	
1,2,3-Trichlorobenzene	<29.6	ug/L	40.0	29.6	40		09/03/08 12:39	87-61-6	
1,2,3-Trichloropropane	<39.6	ug/L	40.0	39.6	40		09/03/08 12:39	96-18-4	
1,2,4-Trichlorobenzene	<38.8	ug/L	40.0	38.8	40		09/03/08 12:39	120-82-1	
1,2,4-Trimethylbenzene	<38.8	ug/L	40.0	38.8	40		09/03/08 12:39	95-63-6	
1,2-Dibromo-3-chloropropane	<67.2	ug/L	224	67.2	40		09/03/08 12:39	96-12-8	
1,2-Dibromoethane (EDB)	<22.4	ug/L	74.7	22.4	40		09/03/08 12:39	106-93-4	
1,2-Dichlorobenzene	<33.2	ug/L	40.0	33.2	40		09/03/08 12:39	95-50-1	
1,2-Dichloroethane	<14.4	ug/L	40.0	14.4	40		09/03/08 12:39	107-06-2	
1,2-Dichloropropane	<19.6	ug/L	40.0	19.6	40		09/03/08 12:39	78-87-5	
1,3,5-Trimethylbenzene	<33.2	ug/L	40.0	33.2	40		09/03/08 12:39	108-67-8	
1,3-Dichlorobenzene	<34.8	ug/L	40.0	34.8	40		09/03/08 12:39	541-73-1	
1,3-Dichloropropane	<24.4	ug/L	81.3	24.4	40		09/03/08 12:39	142-28-9	
1,4-Dichlorobenzene	<38.0	ug/L	40.0	38.0	40		09/03/08 12:39	106-46-7	
2,2-Dichloropropane	<24.8	ug/L	40.0	24.8	40		09/03/08 12:39	594-20-7	
2-Chlorotoluene	<34.0	ug/L	40.0	34.0	40		09/03/08 12:39	95-49-8	
4-Chlorotoluene	<29.6	ug/L	40.0	29.6	40		09/03/08 12:39	106-43-4	
Benzene	<16.4	ug/L	40.0	16.4	40		09/03/08 12:39	71-43-2	
Bromobenzene	<32.8	ug/L	40.0	32.8	40		09/03/08 12:39	108-86-1	
Bromochloromethane	<38.8	ug/L	40.0	38.8	40		09/03/08 12:39	74-97-5	
Bromodichloromethane	<22.4	ug/L	74.7	22.4	40		09/03/08 12:39	75-27-4	
Bromoform	<37.6	ug/L	125	37.6	40		09/03/08 12:39	75-25-2	
Bromomethane	<36.4	ug/L	121	36.4	40		09/03/08 12:39	74-83-9	
Carbon tetrachloride	<19.6	ug/L	40.0	19.6	40		09/03/08 12:39	56-23-5	
Chlorobenzene	<16.4	ug/L	40.0	16.4	40		09/03/08 12:39	108-90-7	
Chloroethane	<38.8	ug/L	40.0	38.8	40		09/03/08 12:39	75-00-3	
Chloroform	<52.0	ug/L	173	52.0	40		09/03/08 12:39	67-66-3	
Chloromethane	<9.6	ug/L	32.0	9.6	40		09/03/08 12:39	74-87-3	
Dibromochloromethane	<32.4	ug/L	40.0	32.4	40		09/03/08 12:39	124-48-1	
Dibromomethane	<24.0	ug/L	40.0	24.0	40		09/03/08 12:39	74-95-3	
Dichlorodifluoromethane	<39.6	ug/L	40.0	39.6	40		09/03/08 12:39	75-71-8	
Diisopropyl ether	<30.4	ug/L	40.0	30.4	40		09/03/08 12:39	108-20-3	
Ethylbenzene	<21.6	ug/L	40.0	21.6	40		09/03/08 12:39	100-41-4	
Hexachloro-1,3-butadiene	<26.8	ug/L	40.0	26.8	40		09/03/08 12:39	87-68-3	
Isopropylbenzene (Cumene)	<23.6	ug/L	40.0	23.6	40		09/03/08 12:39	98-82-8	
Methyl-tert-butyl ether	<24.4	ug/L	81.3	24.4	40		09/03/08 12:39	1634-04-4	
Methylene Chloride	<17.2	ug/L	57.3	17.2	40		09/03/08 12:39	75-09-2	
Naphthalene	<35.6	ug/L	200	35.6	40		09/03/08 12:39	91-20-3	
Styrene	<34.4	ug/L	40.0	34.4	40		09/03/08 12:39	100-42-5	
Tetrachloroethene	2050	ug/L	40.0	18.0	40		09/03/08 12:39	127-18-4	

### ANALYTICAL RESULTS

Project: Bask & Decorah

Pace Project No.: 408314

Sample: DUP-A Lab ID: 408314014 Collected: 08/27/08 00:00 Received: 08/28/08 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Toluene	<26.8	ug/L	40.0	26.8	40		09/03/08 12:39	108-88-3	
Trichloroethene	<19.2	ug/L	40.0	19.2	40		09/03/08 12:39	79-01-6	
Trichlorofluoromethane	<31.6	ug/L	40.0	31.6	40		09/03/08 12:39	75-69-4	
Vinyl chloride	<7.2	ug/L	24.0	7.2	40		09/03/08 12:39	75-01-4	
cis-1,2-Dichloroethene	<33.2	ug/L	40.0	33.2	40		09/03/08 12:39	156-59-2	
cis-1,3-Dichloropropene	<8.0	ug/L	26.7	8.0	40		09/03/08 12:39	10061-01-5	
m&p-Xylene	<72.0	ug/L	80.0	72.0	40		09/03/08 12:39	1330-20-7	
n-Butylbenzene	<37.2	ug/L	40.0	37.2	40		09/03/08 12:39	104-51-8	
n-Propylbenzene	<32.4	ug/L	40.0	32.4	40		09/03/08 12:39	103-65-1	
o-Xylene	<33.2	ug/L	40.0	33.2	40		09/03/08 12:39	95-47-6	
p-Isopropyltoluene	<26.8	ug/L	40.0	26.8	40		09/03/08 12:39	99-87-6	
sec-Butylbenzene	<35.6	ug/L	40.0	35.6	40		09/03/08 12:39	135-98-8	
tert-Butylbenzene	<38.8	ug/L	40.0	38.8	40		09/03/08 12:39	98-06-6	
trans-1,2-Dichloroethene	<35.6	ug/L	40.0	35.6	40		09/03/08 12:39	156-60-5	
trans-1,3-Dichloropropene	<7.6	ug/L	25.3	7.6	40		09/03/08 12:39	10061-02-6	
4-Bromofluorobenzene (S)	99	%	64-132		40		09/03/08 12:39	460-00-4	
Dibromofluoromethane (S)	102	%	68-122		40		09/03/08 12:39	1868-53-7	
Toluene-d8 (S)	107	%	73-127		40		09/03/08 12:39	2037-26-5	

### ANALYTICAL RESULTS

Project: Bask & Decorah  
Pace Project No.: 408314

Sample: TRIP BLANK      Lab ID: 408314015      Collected: 08/27/08 00:00      Received: 08/28/08 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		09/02/08 22:46	630-20-6	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		09/02/08 22:46	71-55-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.67	0.20	1		09/02/08 22:46	79-34-5	
1,1,2-Trichloroethane	<0.42	ug/L	1.4	0.42	1		09/02/08 22:46	79-00-5	
1,1-Dichloroethane	<0.75	ug/L	1.0	0.75	1		09/02/08 22:46	75-34-3	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		09/02/08 22:46	75-35-4	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		09/02/08 22:46	563-58-6	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		09/02/08 22:46	87-61-6	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		09/02/08 22:46	96-18-4	
1,2,4-Trichlorobenzene	<0.97	ug/L	1.0	0.97	1		09/02/08 22:46	120-82-1	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		09/02/08 22:46	95-63-6	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	5.6	1.7	1		09/02/08 22:46	96-12-8	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.9	0.56	1		09/02/08 22:46	106-93-4	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		09/02/08 22:46	95-50-1	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		09/02/08 22:46	107-06-2	
1,2-Dichloropropane	<0.49	ug/L	1.0	0.49	1		09/02/08 22:46	78-87-5	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		09/02/08 22:46	108-67-8	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		09/02/08 22:46	541-73-1	
1,3-Dichloropropane	<0.61	ug/L	2.0	0.61	1		09/02/08 22:46	142-28-9	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		09/02/08 22:46	106-46-7	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		09/02/08 22:46	594-20-7	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		09/02/08 22:46	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		09/02/08 22:46	106-43-4	
Benzene	<0.41	ug/L	1.0	0.41	1		09/02/08 22:46	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		09/02/08 22:46	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		09/02/08 22:46	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.9	0.56	1		09/02/08 22:46	75-27-4	
Bromoform	<0.94	ug/L	3.1	0.94	1		09/02/08 22:46	75-25-2	
Bromomethane	<0.91	ug/L	3.0	0.91	1		09/02/08 22:46	74-83-9	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		09/02/08 22:46	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		09/02/08 22:46	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		09/02/08 22:46	75-00-3	
Chloroform	<1.3	ug/L	4.3	1.3	1		09/02/08 22:46	67-66-3	
Chloromethane	<0.24	ug/L	0.80	0.24	1		09/02/08 22:46	74-87-3	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		09/02/08 22:46	124-48-1	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		09/02/08 22:46	74-95-3	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		09/02/08 22:46	75-71-8	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		09/02/08 22:46	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		09/02/08 22:46	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	1.0	0.67	1		09/02/08 22:46	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		09/02/08 22:46	98-82-8	
Methyl-tert-butyl ether	<0.61	ug/L	2.0	0.61	1		09/02/08 22:46	1634-04-4	
Methylene Chloride	<0.43	ug/L	1.4	0.43	1		09/02/08 22:46	75-09-2	
Naphthalene	<0.89	ug/L	5.0	0.89	1		09/02/08 22:46	91-20-3	
Styrene	<0.86	ug/L	1.0	0.86	1		09/02/08 22:46	100-42-5	
Tetrachloroethene	<0.45	ug/L	1.0	0.45	1		09/02/08 22:46	127-18-4	

### ANALYTICAL RESULTS

Project: Bask & Decorah  
Pace Project No.: 408314

Sample: TRIP BLANK Lab ID: 408314015 Collected: 08/27/08 00:00 Received: 08/28/08 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Toluene	<0.67	ug/L	1.0	0.67	1		09/02/08 22:46	108-88-3	
Trichloroethene	<0.48	ug/L	1.0	0.48	1		09/02/08 22:46	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		09/02/08 22:46	75-69-4	
Vinyl chloride	<0.18	ug/L	0.60	0.18	1		09/02/08 22:46	75-01-4	
cis-1,2-Dichloroethene	<0.83	ug/L	1.0	0.83	1		09/02/08 22:46	156-59-2	
cis-1,3-Dichloropropene	<0.20	ug/L	0.67	0.20	1		09/02/08 22:46	10061-01-5	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		09/02/08 22:46	1330-20-7	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		09/02/08 22:46	104-51-8	
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		09/02/08 22:46	103-65-1	
o-Xylene	<0.83	ug/L	1.0	0.83	1		09/02/08 22:46	95-47-6	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		09/02/08 22:46	99-87-6	
sec-Butylbenzene	<0.89	ug/L	1.0	0.89	1		09/02/08 22:46	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		09/02/08 22:46	98-06-6	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		09/02/08 22:46	156-60-5	
trans-1,3-Dichloropropene	<0.19	ug/L	0.63	0.19	1		09/02/08 22:46	10061-02-6	
4-Bromofluorobenzene (S)	100 %		64-132		1		09/02/08 22:46	460-00-4	
Dibromofluoromethane (S)	95 %		68-122		1		09/02/08 22:46	1868-53-7	
Toluene-d8 (S)	107 %		73-127		1		09/02/08 22:46	2037-26-5	

### QUALITY CONTROL DATA

Project: Bask & Decorah  
Pace Project No.: 408314

QC Batch: MSV/2504 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 408314001, 408314002, 408314003, 408314004, 408314005, 408314006, 408314007, 408314008, 408314009, 408314010, 408314011, 408314012, 408314013, 408314014, 408314015

METHOD BLANK: 71487 Matrix: Water  
Associated Lab Samples: 408314001, 408314002, 408314003, 408314004, 408314005, 408314006, 408314007, 408314008, 408314009, 408314010, 408314011, 408314012, 408314013, 408314014, 408314015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.92	1.0	09/02/08 18:37	
1,1,1-Trichloroethane	ug/L	<0.90	1.0	09/02/08 18:37	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	0.67	09/02/08 18:37	
1,1,2-Trichloroethane	ug/L	<0.42	1.4	09/02/08 18:37	
1,1-Dichloroethane	ug/L	<0.75	1.0	09/02/08 18:37	
1,1-Dichloroethene	ug/L	<0.57	1.0	09/02/08 18:37	
1,1-Dichloropropene	ug/L	<0.75	1.0	09/02/08 18:37	
1,2,3-Trichlorobenzene	ug/L	<0.74	1.0	09/02/08 18:37	
1,2,3-Trichloropropane	ug/L	<0.99	1.0	09/02/08 18:37	
1,2,4-Trichlorobenzene	ug/L	<0.97	1.0	09/02/08 18:37	
1,2,4-Trimethylbenzene	ug/L	<0.97	1.0	09/02/08 18:37	
1,2-Dibromo-3-chloropropane	ug/L	<1.7	5.6	09/02/08 18:37	
1,2-Dibromoethane (EDB)	ug/L	<0.56	1.9	09/02/08 18:37	
1,2-Dichlorobenzene	ug/L	<0.83	1.0	09/02/08 18:37	
1,2-Dichloroethane	ug/L	<0.36	1.0	09/02/08 18:37	
1,2-Dichloropropane	ug/L	<0.49	1.0	09/02/08 18:37	
1,3,5-Trimethylbenzene	ug/L	<0.83	1.0	09/02/08 18:37	
1,3-Dichlorobenzene	ug/L	<0.87	1.0	09/02/08 18:37	
1,3-Dichloropropane	ug/L	<0.61	2.0	09/02/08 18:37	
1,4-Dichlorobenzene	ug/L	<0.95	1.0	09/02/08 18:37	
2,2-Dichloropropane	ug/L	<0.62	1.0	09/02/08 18:37	
2-Chlorotoluene	ug/L	<0.85	1.0	09/02/08 18:37	
4-Chlorotoluene	ug/L	<0.74	1.0	09/02/08 18:37	
Benzene	ug/L	<0.41	1.0	09/02/08 18:37	
Bromobenzene	ug/L	<0.82	1.0	09/02/08 18:37	
Bromochloromethane	ug/L	<0.97	1.0	09/02/08 18:37	
Bromodichloromethane	ug/L	<0.56	1.9	09/02/08 18:37	
Bromoform	ug/L	<0.94	3.1	09/02/08 18:37	
Bromomethane	ug/L	<0.91	3.0	09/02/08 18:37	
Carbon tetrachloride	ug/L	<0.49	1.0	09/02/08 18:37	
Chlorobenzene	ug/L	<0.41	1.0	09/02/08 18:37	
Chloroethane	ug/L	<0.97	1.0	09/02/08 18:37	
Chloroform	ug/L	<1.3	4.3	09/02/08 18:37	
Chloromethane	ug/L	<0.24	0.80	09/02/08 18:37	
cis-1,2-Dichloroethene	ug/L	<0.83	1.0	09/02/08 18:37	
cis-1,3-Dichloropropene	ug/L	<0.20	0.67	09/02/08 18:37	
Dibromochloromethane	ug/L	<0.81	1.0	09/02/08 18:37	
Dibromomethane	ug/L	<0.60	1.0	09/02/08 18:37	
Dichlorodifluoromethane	ug/L	<0.99	1.0	09/02/08 18:37	
Diisopropyl ether	ug/L	<0.76	1.0	09/02/08 18:37	
Ethylbenzene	ug/L	<0.54	1.0	09/02/08 18:37	

Date: 09/04/2008 07:07 AM

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Bask & Decorah  
Pace Project No.: 408314

METHOD BLANK: 71487

Matrix: Water

Associated Lab Samples: 408314001, 408314002, 408314003, 408314004, 408314005, 408314006, 408314007, 408314008, 408314009, 408314010, 408314011, 408314012, 408314013, 408314014, 408314015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<0.67	1.0	09/02/08 18:37	
Isopropylbenzene (Cumene)	ug/L	<0.59	1.0	09/02/08 18:37	
m&p-Xylene	ug/L	<1.8	2.0	09/02/08 18:37	
Methyl-tert-butyl ether	ug/L	<0.61	2.0	09/02/08 18:37	
Methylene Chloride	ug/L	<0.43	1.4	09/02/08 18:37	
n-Butylbenzene	ug/L	<0.93	1.0	09/02/08 18:37	
n-Propylbenzene	ug/L	<0.81	1.0	09/02/08 18:37	
Naphthalene	ug/L	<0.89	5.0	09/02/08 18:37	
o-Xylene	ug/L	<0.83	1.0	09/02/08 18:37	
p-Isopropyltoluene	ug/L	<0.67	1.0	09/02/08 18:37	
sec-Butylbenzene	ug/L	<0.89	1.0	09/02/08 18:37	
Styrene	ug/L	<0.86	1.0	09/02/08 18:37	
tert-Butylbenzene	ug/L	<0.97	1.0	09/02/08 18:37	
Tetrachloroethene	ug/L	<0.45	1.0	09/02/08 18:37	
Toluene	ug/L	<0.67	1.0	09/02/08 18:37	
trans-1,2-Dichloroethene	ug/L	<0.89	1.0	09/02/08 18:37	
trans-1,3-Dichloropropene	ug/L	<0.19	0.63	09/02/08 18:37	
Trichloroethene	ug/L	<0.48	1.0	09/02/08 18:37	
Trichlorofluoromethane	ug/L	<0.79	1.0	09/02/08 18:37	
Vinyl chloride	ug/L	<0.18	0.60	09/02/08 18:37	
4-Bromofluorobenzene (S)	%	101	64-132	09/02/08 18:37	
Dibromofluoromethane (S)	%	93	68-122	09/02/08 18:37	
Toluene-d8 (S)	%	106	73-127	09/02/08 18:37	

LABORATORY CONTROL SAMPLE & LCSD: 71488

71489

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.2	47.9	94	96	75-128	2	20	
1,1,2,2-Tetrachloroethane	ug/L	50	49.7	52.4	99	105	67-125	5	20	
1,1,2-Trichloroethane	ug/L	50	48.6	50.7	97	101	75-125	4	20	
1,1-Dichloroethane	ug/L	50	45.2	46.0	90	92	71-130	2	20	
1,1-Dichloroethene	ug/L	50	49.7	48.5	99	97	75-125	2	20	
1,2-Dichloroethane	ug/L	50	47.3	49.2	95	98	71-132	4	20	
1,2-Dichloropropane	ug/L	50	46.2	46.4	92	93	73-125	4	20	
Benzene	ug/L	50	46.5	47.7	93	95	75-125	3	20	
Bromodichloromethane	ug/L	50	49.0	50.4	98	101	75-125	3	20	
Bromoform	ug/L	50	47.1	48.1	94	96	75-125	2	20	
Bromomethane	ug/L	50	46.5	44.9	93	90	66-125	4	20	
Carbon tetrachloride	ug/L	50	48.7	49.2	97	98	75-125	9	20	
Chlorobenzene	ug/L	50	50.2	51.6	100	103	75-125	3	20	
Chloroethane	ug/L	50	48.2	49.1	96	98	72-126	2	20	
Chloroform	ug/L	50	45.9	47.2	92	94	75-125	3	20	
Chloromethane	ug/L	50	40.4	39.5	81	79	46-143	2	20	
cis-1,2-Dichloroethene	ug/L	50	47.4	48.4	95	97	75-125	2	20	

Date: 09/04/2008 07:07 AM

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Bask & Decorah  
Pace Project No.: 408314

LABORATORY CONTROL SAMPLE & LCSD: 71488		71489								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
cis-1,3-Dichloropropene	ug/L	50	47.8	48.4	96	97	75-125	1	20	
Dibromochloromethane	ug/L	50	50.8	52.7	102	105	75-125	4	20	
Ethylbenzene	ug/L	50	49.3	51.1	99	102	75-125	4	20	
m&p-Xylene	ug/L	100	103	105	103	105	75-125	2	20	
Methylene Chloride	ug/L	50	48.7	48.8	97	98	75-125	.2	20	
o-Xylene	ug/L	50	49.3	51.4	99	103	75-125	4	20	
Styrene	ug/L	50	47.0	48.2	94	96	75-125	3	20	
Tetrachloroethene	ug/L	50	53.1	45.5	106	91	75-130	15	20	
Toluene	ug/L	50	50.5	52.8	101	106	75-125	5	20	
trans-1,2-Dichloroethene	ug/L	50	51.2	54.6	102	109	75-125	6	20	
trans-1,3-Dichloropropene	ug/L	50	48.2	49.5	96	99	75-125	3	20	
Trichloroethene	ug/L	50	51.1	53.1	102	106	75-125	4	20	
Vinyl chloride	ug/L	50	44.8	45.0	90	90	65-130	.4	20	
4-Bromofluorobenzene (S)	%				101	102	64-132			
Dibromofluoromethane (S)	%				98	98	68-122			
Toluene-d8 (S)	%				108	109	73-127			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 71771		71772										
Parameter	Units	408314003 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result						
1,1,1-Trichloroethane	ug/L	<0.90	50	50	50.3	53.5	101	107	70-130	6	30	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	50	50	54.0	54.5	108	109	70-130	.9	30	
1,1,2-Trichloroethane	ug/L	<0.42	50	50	51.5	51.0	103	102	70-130	.9	30	
1,1-Dichloroethane	ug/L	<0.75	50	50	45.5	51.7	91	103	70-130	13	30	
1,1-Dichloroethene	ug/L	<0.57	50	50	51.5	55.1	103	110	70-135	7	30	
1,2-Dichloroethane	ug/L	<0.36	50	50	50.8	55.3	102	111	70-130	8	30	
1,2-Dichloropropane	ug/L	<0.49	50	50	48.4	47.7	97	95	70-130	1	30	
Benzene	ug/L	<0.41	50	50	48.5	53.5	97	107	70-130	10	30	
Bromodichloromethane	ug/L	<0.56	50	50	51.7	50.2	103	100	70-130	3	30	
Bromoform	ug/L	<0.94	50	50	50.5	50.1	101	100	70-130	.7	30	
Bromomethane	ug/L	<0.91	50	50	47.3	50.3	95	101	63-147	6	30	
Carbon tetrachloride	ug/L	<0.49	50	50	48.0	54.8	96	110	70-131	13	30	
Chlorobenzene	ug/L	<0.41	50	50	50.9	51.8	102	104	70-130	2	30	
Chloroethane	ug/L	<0.97	50	50	49.3	54.8	99	110	67-138	11	30	
Chloroform	ug/L	<1.3	50	50	47.5	52.1	95	104	70-130	9	30	
Chloromethane	ug/L	<0.24	50	50	39.2	42.5	78	85	43-150	8	30	
cis-1,2-Dichloroethene	ug/L	<0.83	50	50	50.5	54.3	101	109	70-130	7	30	
cis-1,3-Dichloropropene	ug/L	<0.20	50	50	49.3	48.6	99	97	70-130	1	30	
Dibromochloromethane	ug/L	<0.81	50	50	52.5	53.8	105	108	70-130	3	30	
Ethylbenzene	ug/L	<0.54	50	50	50.3	50.6	101	101	70-136	.6	30	
m&p-Xylene	ug/L	<1.8	100	100	102	105	102	105	70-137	3	30	
Methylene Chloride	ug/L	<0.43	50	50	50.5	54.2	101	108	70-130	7	30	
o-Xylene	ug/L	<0.83	50	50	50.2	51.1	100	102	70-130	2	30	
Styrene	ug/L	<0.86	50	50	44.4	46.3	89	93	70-130	4	30	
Tetrachloroethene	ug/L	1.7	50	50	55.9	56.8	109	110	70-130	1	30	
Toluene	ug/L	<0.67	50	50	52.9	52.3	106	105	70-130	1	30	



**QUALITY CONTROL DATA**

Project: Bask & Decorah  
Pace Project No.: 408314

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 71771		71772		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		408314003 Result	MS Spike Conc.	MSD Spike Conc.	MSD Result								
trans-1,2-Dichloroethene	ug/L	<0.89	50	50	56.5	60.1	113	120	70-130	6	30		
trans-1,3-Dichloropropene	ug/L	<0.19	50	50	49.6	49.3	99	99	70-130	.6	30		
Trichloroethene	ug/L	<0.48	50	50	52.9	52.1	106	104	70-130	2	30		
Vinyl chloride	ug/L	<0.18	50	50	45.5	48.3	91	97	62-138	6	30		
4-Bromofluorobenzene (S)	%						101	101	64-132				
Dibromofluoromethane (S)	%						102	109	68-122				
Toluene-d8 (S)	%						107	106	73-127				

## QUALIFIERS

Project: Bask & Decorah  
Pace Project No.: 408314

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Bask & Decorah  
Pace Project No.: 408314

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
408314001	MW-1	EPA 8260	MSV/2504		
408314002	MW-2	EPA 8260	MSV/2504		
408314003	MW-11	EPA 8260	MSV/2504		
408314004	MW-9	EPA 8260	MSV/2504		
408314005	MW-10	EPA 8260	MSV/2504		
408314006	MW-3	EPA 8260	MSV/2504		
408314007	MW-8	EPA 8260	MSV/2504		
408314008	MW-7	EPA 8260	MSV/2504		
408314009	MW-12	EPA 8260	MSV/2504		
408314010	MW-13	EPA 8260	MSV/2504		
408314011	MW-6	EPA 8260	MSV/2504		
408314012	MW-4	EPA 8260	MSV/2504		
408314013	MW-5	EPA 8260	MSV/2504		
408314014	DUP-A	EPA 8260	MSV/2504		
408314015	TRIP BLANK	EPA 8260	MSV/2504		



**Sample Condition Upon Receipt**

Client Name: ARCADIS Project # 408314

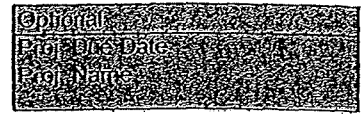
Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other \_\_\_\_\_

Tracking #: \_\_\_\_\_ Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_

Thermometer Used N/A Type of Ice: Wet Blue None  Samples on ice, cooling process has begun

Cooler Temperature ROI Biological Tissue is Frozen: Yes No



Date and Initials of person examining contents: 8/28/08 EC

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Lot # of added preservative
Headspace in VOA Vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15. <u>MW-12 (009) 1-40mL EC 8/28</u>
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: \_\_\_\_\_ Field Data Required? Y / N  
Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
Comments/ Resolution: \_\_\_\_\_

Project Manager Review: [Signature] Date: 8/28/08



Laboratory Task Order No./P.O. No. \_\_\_\_\_

CHAIN-OF-CUSTODY RECORD Page 1 of 1

Project Number/Name WIC01147.0001/Back

Project Location Brookfield, WI

Laboratory Phase Analytical

Project Manager B. Maillet

Sampler(s)/Affiliation CAB/ARCADIS

ANALYSIS / METHOD / SIZE

408314

Sample ID/Location	Matrix	Date/Time Sampled	TIME Lab ID	3	40mL VOA HCl	Remarks	Total
MW-1 001	L	8/27/08	1415	3		3-40mL	3
MW-2 002	L	8/25/08	1530	3			3
MW-11 003	L	8/26/08	1605	3			3
MW-9 004	L	8/26/08	1125	3			3
MW-10 005	L	8/26/08	1245	3			3
MW-3 006	L	8/26/08	1425	3			3
MW-8 007	L	8/26/08	1545	3			3
MW-7 008	L	8/26/08	1705	3			3
MW-12 009	L	8/27/08	1005	3			3
MW-13 010	L	8/27/08	1140	3			3
MW-6 011	L	8/27/08	1200	3			3
MW-4 012	L	8/27/08	1345	3			3
MW-5 013	L	8/27/08	1500	3			3
DUP-A 014	L	8/27/08	-	3			3
Trip Blank 015	L	8/27/08	-	2		2-40mL	2

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 44

Relinquished by: <u>Cai Gray</u>	Organization: <u>ARCADIS</u>	Date: <u>8/27/08</u>	Time: <u>0830</u>	Seal Intact?
Received by: <u>D. Farnish</u>	Organization: <u>Pace</u>	Date: <u>8/28/08</u>	Time: <u>0915</u>	Yes No N/A
Relinquished by: <u>D. Farnish</u>	Organization: <u>Pace</u>	Date: <u>8/28/08</u>	Time: <u>1145</u>	Seal Intact?
Received by: <u>B. Kemper</u>	Organization: <u>Pace</u>	Date: <u>8/28/08</u>	Time: <u>1145</u>	Yes No N/A

Special Instructions/Remarks By Lab. B. Kemper/Pace 8/28/08 1500 10/28/08 1500

Delivery Method:  In Person  Common Carrier  Lab Courier  Other

ARCADIS

**Appendix C**

Mann-Kendall Statistical Test Results

**State of Wisconsin  
Department of Natural Resources**

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

**Remediation and Redevelopment Program**

**Notice:** This form is the DNR supplied spreadsheet referenced in Appendices A of 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 : Bask Drycleaners      BRRTS No. = 02-68-297669      Well Number = MW-5

Event Number	Compound -> Sampling Date (most recent last)	PCE					
		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	8-Sep-03	517.00					
2	17-Dec-03	1,180.00					
3	15-Jul-04	3,100.00					
4	23-Mar-05	1,500.00					
5	19-Oct-05	120.00					
6	1-Feb-08	2,800.00					
7	12-Jun-08	1,840.00					
8	27-Aug-08	2,270.00					
9							
10							

Mann Kendall Statistic (S) =	8.0	0.0	0.0	0.0	0.0	0.0
Number of Rounds (n) =	8	0	0	0	0	0
Average =	1665.88	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Standard Deviation =	1049.590	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Coefficient of Variation(CV)=	0.630	#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	<b>INCREASING</b>	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	NA	n<4	n<4	n<4	n<4	n<4

Data Entry By = A.A.      Date = 1-Feb-01      Checked By = Z.Z.

**State of Wisconsin  
Department of Natural Resources**

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

**Remediation and Redevelopment Program**

**Notice:** This form is the DNR supplied spreadsheet referenced in Appendices A of 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 : Bask Drycleaners      BRRTS No. = 02-68-297669      Well Number = MW-6

Event Number	Compound -> Sampling Date (most recent last)	PCE					
		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	9-Sep-03	215.00					
2	17-Dec-03	197.00					
3	15-Jul-04	65.00					
4	23-Mar-05	59.00					
5	19-Oct-05	35.00					
6	1-Feb-08	270.00					
7	12-Jun-08	653.00					
8	27-Aug-08	1,250.00					
9							
10							

Mann Kendall Statistic (S) =	8.0	0.0	0.0	0.0	0.0	0.0
Number of Rounds (n) =	8	0	0	0	0	0
Average =	343.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Standard Deviation =	416.547	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Coefficient of Variation(CV)=	1.214	#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	<b>INCREASING</b>	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	NA	n<4	n<4	n<4	n<4	n<4

Data Entry By = A.A.      Date = 1-Feb-01      Checked By = Z.Z.



**Notice:** This form is the DNR supplied spreadsheet referenced in Appendices A of 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 : Bask Drycleaners      BRRTS No. = 02-68-297669      Well Number = MW-10

Event Number	Compound -> Sampling Date (most recent last)	PCE					
		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	9-Sep-03						
2	17-Dec-03						
3	15-Jul-04	9.10					
4	23-Mar-05	7.50					
5	19-Oct-05	11.00					
6	1-Feb-08	11.00					
7	12-Jun-08	2.80					
8	27-Aug-08	10.20					
9							
10							

Mann Kendall Statistic (S) =	0.0	0.0	0.0	0.0	0.0	0.0
Number of Rounds (n) =	6	0	0	0	0	0
Average =	8.60	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Standard Deviation =	3.136	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Coefficient of Variation(CV)=	0.365	#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 = A.A.      Date = 1-Feb-01      Checked By = Z.Z.