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Milwaukee, Wisconsin 53212

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Subject:  
Summary of Pilot Study Activities and Request for Permit Amendment for Full-Scale Remediation, Decorah Shopping Center Annex, 1011-1025 South Main Street, West Bend, Wisconsin (BRRTS #02-67-151266; FID #267161400).

ENVIRONMENT

Dear Mr. Amungwafor:

The purpose of this letter is to provide a status report on the results of the chemical oxidation pilot study for remediation at the above referenced site. The Wisconsin Department of Natural Resources (WDNR) approved the pilot study and remedial action plan (RAP) for the Decorah Shopping Center Annex (the Site) in a letter dated December 11, 2003. In addition, this letter serves as a request to amend the permits issued by the WDNR for the pilot study in order to proceed with full-scale remediation.

Date: 6  
27 June 2006

Contact:  
Dawn Gabardi  
Jim Bannantine

ARCADIS was retained by Continental VI Fund L.P. (Continental) to conduct remedial action activities to address a chlorinated solvent release at the Site. Consistent with the RAP, ARCADIS conducted a chemical oxidation pilot study to evaluate the feasibility of the proposed plan. The pilot study was completed between January and September 2005. Based on the results of the pilot study, ARCADIS will implement the full-scale RAP presented in ARCADIS' proposal dated October 24, 2003. A summary of the pilot study activities and results is presented below. In addition, details of the full-scale design are included herein. The goal of the full-scale remedial action is to achieve mass reduction of PCE by focusing groundwater treatment on the areas where PCE concentrations are the most significant.

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WI001054

## Site Location and Background

A dry cleaning facility (Mr. Bob's One Hour Dry Cleaning) was formerly located at the south end of the Decorah Shopping Center Annex. Perchloroethene (PCE) was used and stored within the dry cleaning facility. Dry cleaning operations are no longer conducted at the Site. Site investigation activities completed by Key Engineering Group from 1998 through 2003 indicated PCE and associated chlorinated volatile organic compounds (VOCs) were detected in soil and groundwater at the Site, and dissolved VOCs had migrated downgradient of the Site. ARCADIS was subsequently retained by Continental to complete the remediation phase of the project. The Site location is shown on Figure 1.

The Site layout is presented on Figure 2, along with the PCE and trichloroethene groundwater concentrations detected in Site monitoring wells in August 2004, and in Geoprobe temporary wells in September 2002. Historically, the highest PCE

concentrations have been detected in Monitoring Well MW-13, located in Lincoln Drive West. Therefore, ARCADIS conducted the pilot study in the vicinity of MW-13.

## **Chemical Oxidation Pilot Study**

### **Installation of Pilot Study Injection and Groundwater Monitoring Wells**

In January 2005, ARCADIS installed two 1-inch diameter injection wells (MP-1 and MP-2) and nine 1-inch diameter monitoring wells (IP-1, IP-2, MP-3, MP-4, MP-5, MP-6, MP-7, MP-8, and MP-9) within the Lincoln Drive West right-of-way, located hydraulically upgradient of Monitoring Well MW-13. The locations of the injection and monitoring wells, and the existing Monitoring Well MW-13, are presented on Figure 3.

The injection and monitoring wells were installed with a Geoprobe rig, and were constructed with 1-inch diameter Schedule 40 polyvinyl chloride riser with 5-foot well screens. The wells were screened between 7 and 13 feet below land surface and completed with a filter pack, annular space seal, and flush mount well vault. The soil boring logs and well construction forms prepared for the wells are included as Appendix A. The Inventory of Injection Wells is included as Appendix B.

### **Permitting Issues**

The pilot test was conducted to evaluate the feasibility of chemical oxidation for the remediation of impacted groundwater. Because this process involves injecting remedial material into the waters of the state, a temporary exemption under Chapter NR 140.28(5) and a Wisconsin Pollutant Discharge Elimination System (WPDES) permit were required. Prior to initiating injection activities, ARCADIS submitted a request for the NR 140.28 exemption request to you, and the required WPDES permit request to Judith Gottlieb of the WDNR, on May 20, 2004. The NR 140.28 exemption request and the WPDES permit request were approved in separate letters issued by Sharon Shaver on November 30, 2004.

### **Baseline Groundwater Sampling**

Baseline groundwater samples were collected from MW-13 and the surrounding injection well monitoring network (MP-1, MP-2, MP-3, MP-4, MP-5, MP-6, MP-7, MP-8, and MP-9) on February 1 and 2, 2005 to provide background VOC concentrations prior to the start of the pilot test. Groundwater samples were collected using low-flow sampling techniques.

A PCE concentration of 600 micrograms per liter ( $\mu\text{g/L}$ ) was detected in the groundwater sample collected from MW-13. The February 2, 2005 PCE concentration in MW-13 was generally consistent with data collected during the site investigation, which indicated PCE concentrations in MW-13 ranged from 530  $\mu\text{g/L}$  to 1,100  $\mu\text{g/L}$ .

The PCE concentrations from the injection monitoring well network installed around MW-13 ranged from 4.3 µg/L to 110 µg/L. Because the PCE concentrations in the newly installed wells around MW-13 were less than the concentration detected in MW-13, a second round of VOC samples was collected from select wells (MP-1, MP-3, MP-7, and MW-13) on February 24, 2005 to confirm data accuracy. The February 24 results were generally consistent with the data collected on February 1 and 2, 2005. The pre-injection groundwater VOC concentrations are presented in Table 1. The groundwater analytical laboratory reports are in Appendix C.

### **Potassium Permanganate Injections and Groundwater Monitoring Program**

Following the collection of baseline groundwater samples in February 2005, a 3 percent potassium permanganate solution was introduced to the aquifer on March 31, 2005. Approximately 600 gallons of solution were pumped into Injection Wells MP-1 and MP-2 (300 gallons per well). The solution also contained a sodium bromide tracer to evaluate the groundwater flow direction and seepage velocity. In addition, because the potassium permanganate solution is a dark purple color, observations of the water appearance in the monitoring wells provided a general indication of the solution migration pathway.

After the March 31 injection event, ARCADIS conducted periodic bromide sampling and well inspections to monitor the direction and rate at which the solution migrated through the subsurface. A summary of the field observations and bromide sampling results is presented in Table 2. Potassium permanganate solution and bromide were detected in Monitoring Wells MP-4, MP-5, MP-8, and MP-9 within 14 to 21 days after the March 31 injection. Neither the solution nor bromide was detected in Monitoring Wells MP-3, MP-6, MP-7, or MW-13 following the March injection. The absence of bromide in those monitoring wells indicated the groundwater flow direction was northeast, and the initial injection solution flowed sidegradient of MW-13 and the nearest surrounding wells.

In order to observe the effects of the permanganate solution on the PCE concentrations in MW-13, ARCADIS conducted a second injection event on May 25, 2005, by converting MP-3 and MP-6 into injection wells. Wells MP-3 and MP-6 are located upgradient of MW-13. During the second injection event, 600 gallons of the permanganate solution, including the bromide tracer, were injected into wells MP-3 and MP-6 (300 gallons per well).

Bromide was detected in MP-7 and MW-13 within 12 to 43 days following the second injection. The permanganate solution was observed in MP-7 within 12 days of the May injection, as evidenced by the purple appearance of the water in the well and by the presence of bromide in groundwater samples collected on June 6. Bromide was detected in MW-13 by July 7. No visible presence of the permanganate solution was observed in MW-13, but the detected bromide concentrations confirmed the solution did migrate to MW-13. The absence of visible color changes in MW-13 may be due to the higher PCE concentration in the vicinity of MW-13 reacting completely with the permanganate solution.

Groundwater samples were collected from MW-13 on September 19, 2005, approximately four months after the May 2005 injection event. The groundwater samples were collected using low-flow sampling methods and analyzed for VOCs. Post-injection sampling results are presented on Table 1. The pre-injection and post-injection PCE concentrations in MW-13 were 730 µg/L and 480 µg/L, respectively. The post-injection PCE concentration decreased 34 percent from the pre-injection concentration.

Post-injection PCE concentrations in the remaining monitoring wells were variable. Groundwater samples collected on May 19, 2005 indicated PCE concentrations decreased in Wells MP-5, MP-8, and MP-9 following the March 2005 injection event. Concentrations increased slightly in MP-4 and MP-7 following the March and May 2005 injection events, respectively. The PCE increases in the two wells may be a result of desorption, or from PCE being released from micropore spaces within the aquifer as the permanganate solution flushed through the aquifer system from pressurized injections. More consistent decreases in PCE concentrations will likely occur as the volume and distribution of the solution increase during implementation of the full-scale remediation.

To further confirm the percent permanganate solution used in the pilot study was effective in destroying PCE, a water sample was collected from MP-1 in September 2005, almost 6 months after the March 2005 injection at this location. The PCE concentration in MP-1 decreased from a pre-injection concentration of 110 µg/L to a post-injection concentration below detection limits.

Based on the data collected following the injection events, the estimated groundwater seepage velocity within Lincoln Drive West ranged from 0.5 to 1 foot/day, and the radius of influence during the injections ranged from 4.5 to 7.6 feet. The injection rates ranged from 3.5 to 7.5 gallons per minute.

### **Pilot Study Conclusions**

The post-injection monitoring results indicated the permanganate injections reduced PCE concentrations in target Monitoring Well MW-13 by 34 percent following the May 2005 injection event. Concentrations of PCE in MP-8 and MP-9 decreased 32 percent and 20 percent, respectively, following the March 2005 injection event. Concentrations decreased 100 percent at the MP-1 injection point. The results indicate the permanganate solution was effective at reducing PCE concentrations. As such, ARCADIS recommends implementation of the full-scale remediation system. The full-scale system will be implemented at the Site in accordance with ARCADIS' RAP dated October 24, 2003, and approved by the WDNR on December 11, 2003. Modifications to the injection areas and sample schedule will be made as needed based on results obtained from the pilot study and on remedial progress monitoring. The proposed remedial design for the full-scale system is described below.

## Proposed Full-Scale Remediation System Design

ARCADIS used the information obtained during the pilot study to plan the injection well spacing and locations for the full-scale system. ARCADIS proposes to install two additional monitoring wells that will be used to both refine the lateral limits of the proposed treatment areas, and to monitor the progress of the remediation within the treatment areas (in conjunction with select existing wells). The first monitoring well will be installed approximately 30 feet south of MW-13, and the second one will be installed adjacent to Boring GP-18, as shown on Figure 4. The monitoring wells will be sampled for VOCs prior to installing the injection wells to establish baseline groundwater conditions, and to refine the location and number of injection wells. The well installation proposed near Boring GP-18 assumes access to this adjacent property (occupied by AutoZone) will be granted to conduct the work.

The purpose of the remediation is to target and reduce PCE concentrations in the most highly impacted areas to achieve mass reduction. Therefore, two areas would be targeted for treatment. As Figure 2 indicates, the PCE concentration in a Geoprobe groundwater sample collected from Boring GP-18 in September 2002 was 1,800 µg/L. Following installation, development, and sampling of the two new monitoring wells, ARCADIS would install up to three injection wells upgradient of Boring GP-18 if current monitoring well data indicates the PCE concentration is consistent with the concentration detected in GP-18 in 2002. Up to 16 additional 1-inch diameter injection wells would also be installed in Lincoln Drive West upgradient of MW-13, as shown on Figure 4. The 1-inch diameter monitoring wells installed during the pilot study would be converted to injection wells, with the exception of MP-1 and MP-9, which would continue to be used for monitoring.

Based on the PCE concentrations and the estimated plume dimensions between Boring GP-18 and Monitoring Well MW-13, ARCADIS estimates the volume of permanganate solution needed to treat these areas ranges from 15,000 to 60,000 gallons. ARCADIS will inject approximately 30,000 gallons of a 2 to 4 percent permanganate solution during the first injection event within the two areas. The solution will be injected to depths between 8 and 18 feet via injection wells equipped with 10-foot long well screens. The target monitoring wells will be sampled for VOCs one month, two months, and six months after the initial injection event. Based on the results of the monitoring, ARCADIS will determine if subsequent injection events are needed.

## Permit Amendment for Full-Scale System

The injections will be conducted in general accordance with the conditions established in the permit issued for the pilot study, with the exception that a greater volume of solution will be used for the full-scale remediation. However, ARCADIS requests that the methane monitoring of the percent lower explosive limit (LEL) be discontinued in light of the fact that the LEL monitoring conducted during the pilot study injections indicated 0 percent methane gas, and methane is not formed during the reaction between PCE and potassium permanganate. The water source (from

the city of West Bend) used to prepare the solution will be carbon filtered to remove trihalomethanes. The sodium bromide tracer may be used during the full-scale remediation for progress monitoring purposes. Because one to two additional injection events may be required, ARCADIS requests that the Wisconsin Pollutant Discharge Elimination System Wastewater Discharge Permit and the temporary exemption from NR 140.28(5), Wis. Admin. Code, be issued for the duration of the proposed injection timeline. ARCADIS proposes to initiate the full-scale remedial injections in August.

### Closing

Should you have any questions relating to the information presented herein, please feel free to call us at your convenience.

Sincerely,

ARCADIS G&M, Inc.



Dawn M. Gabardi  
Project Hydrogeologist



James E. Bannantine  
Senior Hydrogeologist

copies:

James O. McClain – AutoZone  
Mary L. Mokwa – Continental VI Fund L.P.  
Sharon Shaver - WDNR

**Table 1. Summary of Pre- and Post-Injection Groundwater VOC Concentrations for Pilot Study, Decorah Shopping Center Annex, West Bend, Wisconsin.**

Well Name Sample Date	NR 140	NR 140	IP-1	MP-1			MP-2	MP-3		MP-4	
	ES	PAL	2/24/05	2/1/05	2/24/05	9/19/05	2/1/05	2/1/05	2/24/05	2/1/05	5/19/05
Tetrachloroethene	5	0.5	11	110	88	<4.5	9.7	4.3	4.9	7.5	21
Trichloroethene	5	0.5	<0.48	<0.48	<0.48	<4.8	<0.48	<0.48	<0.48	<0.48	<0.48

Units in micrograms per liter.

First injection event conducted on 3/31/05 at MP-1 and MP-2.

Second injection event conducted on 5/25/05 at MP-3 and MP-6.

100 Concentration exceeds NR 140 Preventive Action Limit (PAL).

100 Concentration exceeds NR 140 Enforcement Standard (ES).

Note: If no evidence of permanganate solution was observed in a downgradient well following an injection event, no post-injection VOC sample was collected.

**Table 1. Summary of Pre- and Post-Injection Groundwater VOC Concentrations for Pilot Study, Decorah Shopping Center Annex, West Bend, Wisconsin.**

Well Name Sample Date	MP-5		MP-6	MP-7				MP-8		MP-9	
	2/1/05	5/19/05	2/1/05	2/1/05	2/24/05	5/19/05	7/7/05	2/2/05	5/19/05	2/2/05	5/19/05
Tetrachloroethene	5.2	5.1	12	15	14	14	22	19	13	20	16
Trichloroethene	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48

Units in micrograms per liter.

First injection event conducted on 3/31/05 at MP-1 and MP-2.

Second injection event conducted on 5/25/05 at MP-3 and MP-6.

**100** Concentration exceeds NR 140 Preventive Action Limit (PAL).

**100** Concentration exceeds NR 140 Enforcement Standard (ES).

Note: If no evidence of permanganate solution was observed in a downgradient well following an injection event, no post-injection VOC sample was collected.



**Table 1. Summary of Pre- and Post-Injection Groundwater VOC Concentrations for Pilot Study, Decorah Shopping Center Annex, West Bend, Wisconsin.**

Well Name	MW-13			
	8/27/04	2/2/05	2/24/05	9/19/05
Tetrachloroethene	1100	600	730	480
Trichloroethene	7.9 Q	6.9 Q	8.0 Q	22

Units in micrograms per liter.

First injection event conducted on 3/31/05 at MP-1 and MP-2.

Second injection event conducted on 5/25/05 at MP-3 and MP-6.

**100** Concentration exceeds NR 140 Preventive Action Limit (PAL).

**100** Concentration exceeds NR 140 Enforcement Standard (ES).

Note: If no evidence of permanganate solution was observed in a downgradient well following an injection event, no post-injection VOC sample was collected.

**Table 2. Summary of Bromide Tracer Groundwater Data and Field Observations, Decorah Shopping Center Annex, West Bend, Wisconsin.**

Well Name	Sample Date	Bromide (mg/L)	Water Appearance	Comments
MP-1	2/1/05	0.32 Q	Colorless	Injection point, did not monitor except for VOC sample collected 9/19/05.
MP-2	2/1/05	0.27 Q	Colorless	Injection point, did not monitor
MP-3	2/1/05	<0.1	Colorless	Well not affected by injection at MP-1/MP-2; converted to injection point for second injection event on 5/25/05. Well not used as monitoring point after conversion to injection well for May injection.
MP-3	4/14/05	0.34 N	Colorless	
MP-3	4/21/05	<0.1 N	Colorless	
MP-3	4/29/05	<0.1 N	Colorless	
MP-3	5/5/05	<0.25	Colorless	
MP-4	2/1/05	0.23 Q	Colorless	Well not affected by injection at MP-1/MP-2; converted to injection point for second injection event on 5/25/05. Well not used as monitoring point after conversion to injection well for May injection.
MP-4	4/14/05	370	purple	
MP-4	4/21/05	12	light pink to purple	
MP-4	4/29/05	98	purple	
MP-4	5/5/05	48	purple	
MP-4	5/12/05	46	light purple	
MP-5	2/1/05	0.19 Q	Colorless	Well not affected by injection at MP-1/MP-2; converted to injection point for second injection event on 5/25/05. Well not used as monitoring point after conversion to injection well for May injection.
MP-5	4/14/05	390	purple	
MP-5	4/21/05	79	dark purple	
MP-5	4/29/05	120	dark purple	
MP-5	5/5/05	88	purple	
MP-5	5/12/05	51	purple	
MP-6	2/1/05	0.32 Q	Colorless	Well not affected by injection at MP-1/MP-2; converted to injection point for second injection event on 5/25/05. Well not used as monitoring point after conversion to injection well for May injection.
MP-6	4/14/05	1.4	Colorless	
MP-6	4/21/05	<0.1	Colorless	
MP-6	4/29/05	<0.1	Colorless	
MP-6	5/5/05	0.27	Colorless	
MP-7	2/1/05	0.29 Q	Colorless	Well not affected by injection at MP-1/MP-2; appearance of purple color and bromide detection occurred after May 2005 injection into MP-3 and MP-6.
MP-7	4/14/05	1.0	Colorless	
MP-7	4/21/05	<0.1	Colorless	
MP-7	4/29/05	<0.1	Colorless	
MP-7	5/5/05	0.55	Colorless	
MP-7	6/6/05	75	Purple	
MP-7	6/9/05	2.8	Pink	
MP-7	6/14/05	6.6	Pink	
MP-7	6/21/05	0.41	Slight brown/orange	
MP-8	2/2/05	0.27 Q	Colorless	Well not affected by injection at MP-1/MP-2; appearance of purple color and bromide detection occurred after May 2005 injection into MP-3 and MP-6.
MP-8	4/14/05	0.36	Colorless	
MP-8	4/21/05	88	Colorless	
MP-8	4/29/05	340	dark pink	
MP-8	5/5/05	77	purple	
MP-8	5/12/05	23	light brown	

Footnotes on Page 2.

**Table 2. Summary of Bromide Tracer Groundwater Data and Field Observations, Decorah Shopping Center Annex, West Bend, Wisconsin.**

Well Name	Sample Date	Bromide (mg/L)	Water Appearance	Comments
MP-9	2/2/05	0.24 Q	Colorless	
MP-9	4/14/05	0.34	Colorless	
MP-9	4/21/05	230	slight pink/purple tinge	
MP-9	4/29/05	42	pink	
MP-9	5/5/05	33	light pink	
MP-9	5/12/05	15	light brown	
MW-13	2/2/05	0.57	Colorless	Well not affected by injection at MP-1/MP-2.
MW-13	4/21/05	<0.1	Colorless	
MW-13	6/6/05	0.44	Colorless	
MW-13	6/9/05	0.48	Colorless	
MW-13	6/14/05	0.54	Colorless	
MW-13	6/21/05	NA	Colorless	
MW-13	6/23/05	NA	Colorless	
MW-13	7/7/05	430	Colorless	
MW-13	7/21/05	320	Colorless	
MW-13	9/19/05	35	Colorless	

February 2005 data represent baseline groundwater conditions prior to injections.

mg/L Milligrams per liters.

N Spiked sample recovery not within control limits.

NA Laboratory sample was not collected.

Q Concentration is between the limit of detection and the limit of quantitation.

VOC Volatile organic compound.

First injection event conducted March 31, 2005 at MP-1 and MP-2.

Second injection event conducted May 25, 2005 at MP-3 and MP-6.

DRAFTER: LMB

APPROVED:

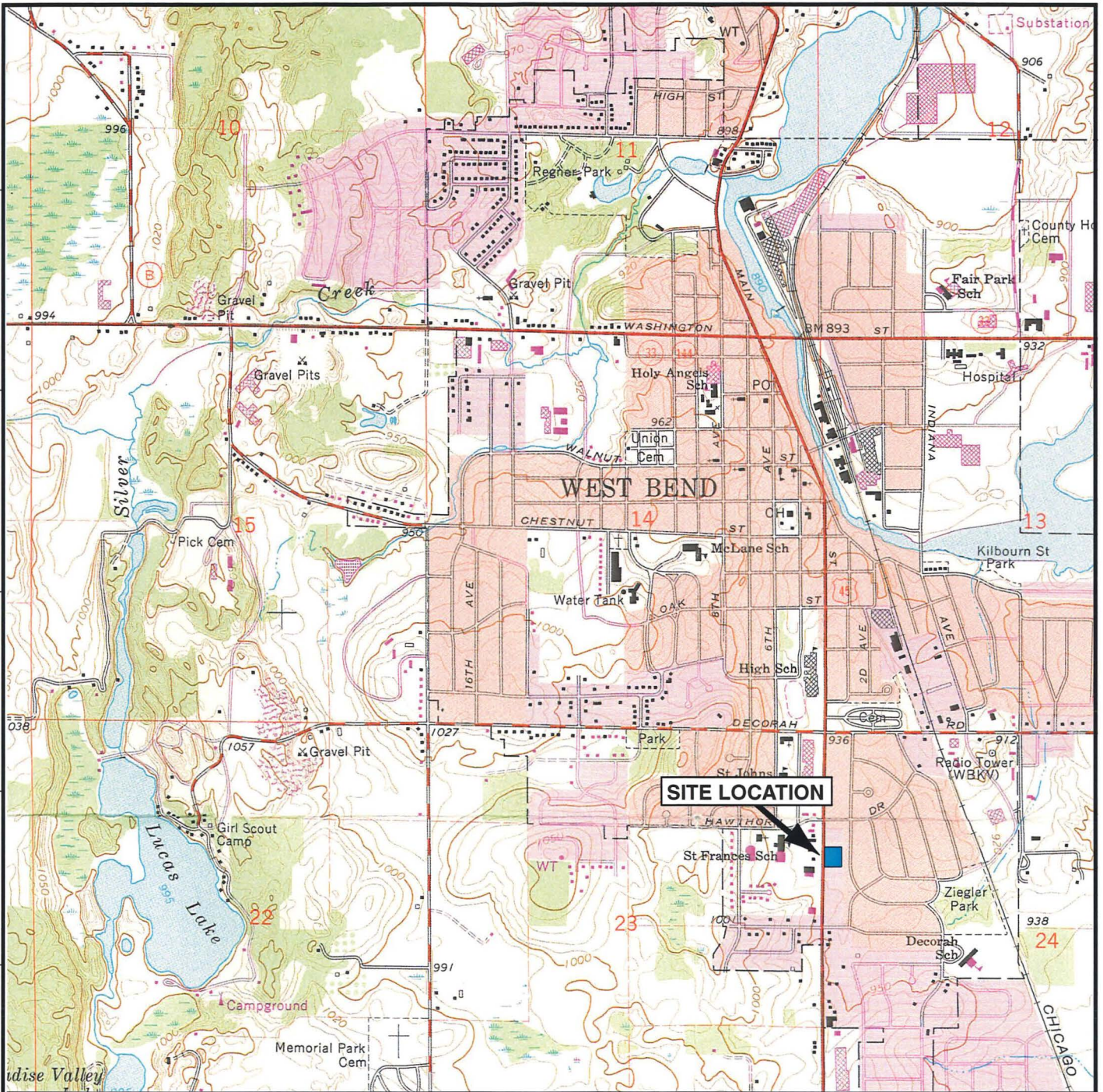
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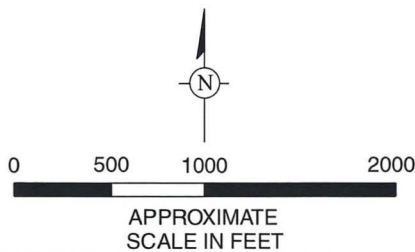
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PN: CONTLPROP\W1054\DECORAH

DWG DATE: 04MAY04



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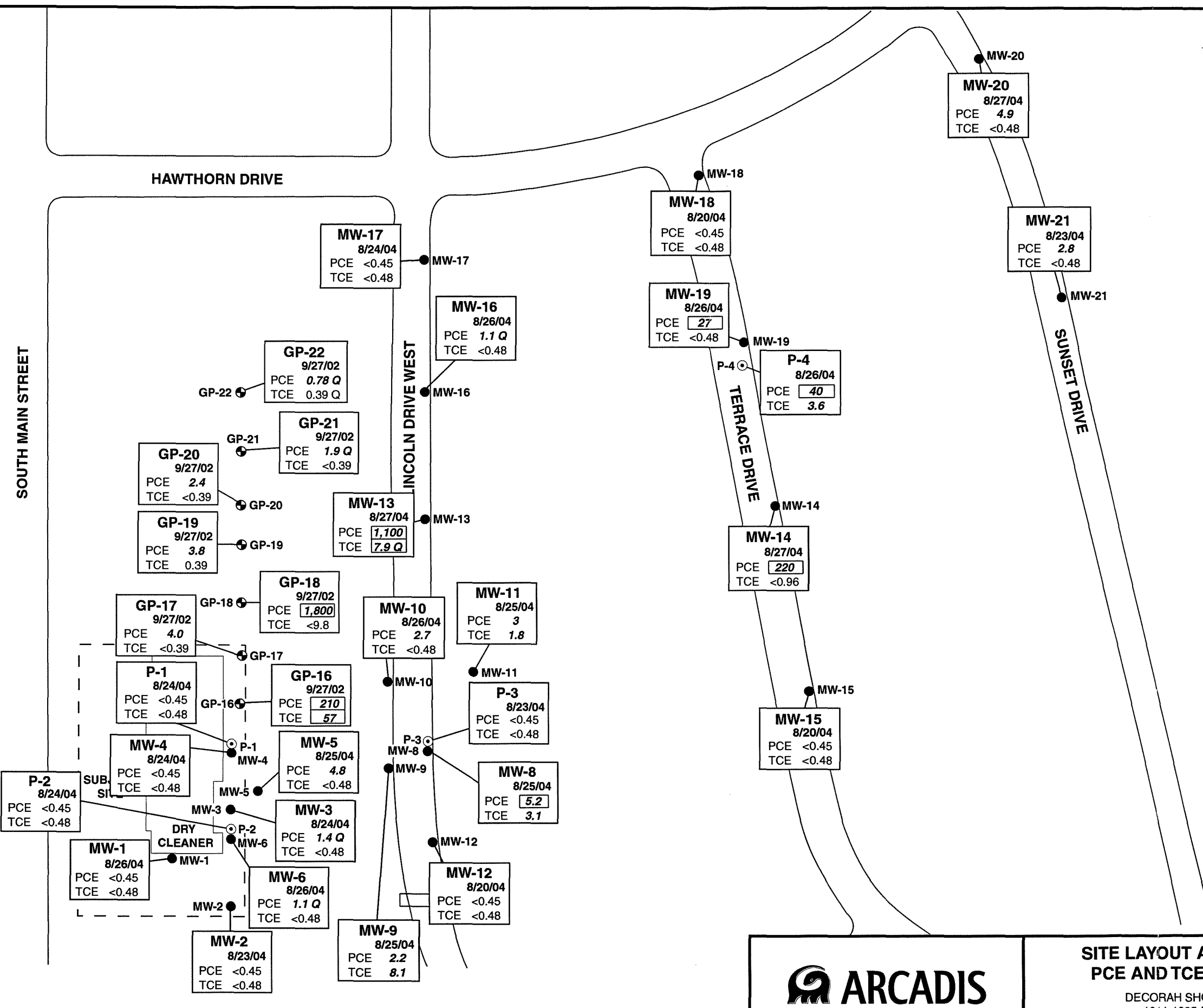
### SITE LOCATION

DECORAH SHOPPING CENTER ANNEX  
1011-1025 SOUTH MAIN STREET  
WEST BEND, WISCONSIN

FIGURE

1

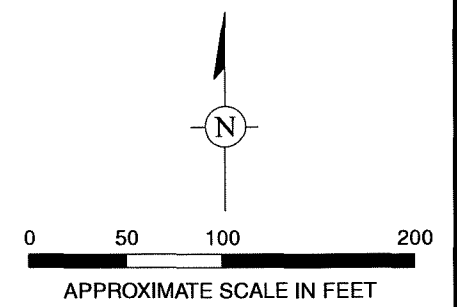
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**LEGEND**

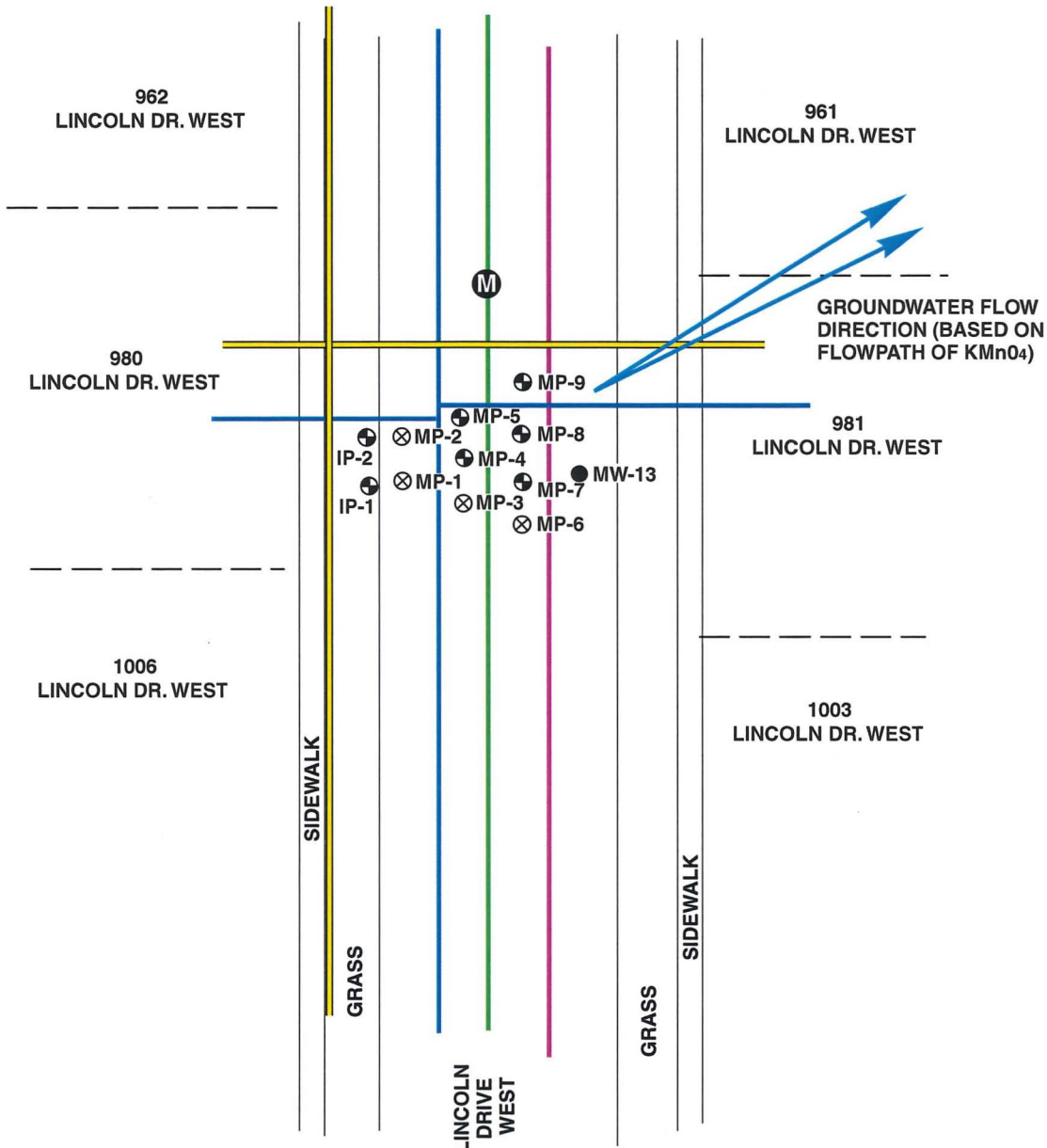
- MONITORING WELL LOCATION
- PIEZOMETER LOCATION
- ⊕ SOIL BORING
- 5 CONCENTRATION EXCEEDS PREVENTIVE ACTION LIMIT
- 5 CONCENTRATION EXCEEDS ENFORCEMENT STANDARD
- PCE Perchloroethene
- TCE Trichloroethene
- Q Concentration is between limit of quantitation and limit of detection.

All results in micrograms per liter.



	<p><b>SITE LAYOUT AND GROUNDWATER PCE AND TCE CONCENTRATIONS</b></p> <p>DECORAH SHOPPING CENTER ANNEX 1011-1025 SOUTH MAIN STREET WEST BEND, WISCONSIN</p>	<p>FIGURE</p> <p><b>2</b></p>
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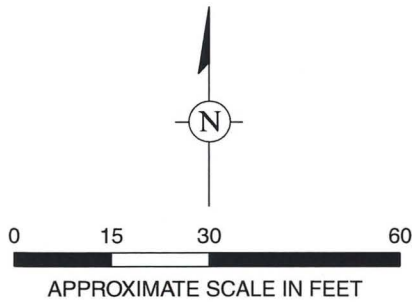
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**LEGEND**

- EXISTING MONITORING WELL
- ⊗ INJECTION WELL (MP-3 and MP-6 converted to injection wells on 5/25/05)
- ⊕ GEOPROBE MONITORING WELL
- Ⓜ MANHOLE
- WATER LINE (Depth = 6 feet)
- SANITARY SEWER (Depth = 7.2 feet)
- STORM SEWER (Depth = 5.3 feet)
- GAS LINE

Approximate Depth to Water Table = 8-9.5 feet below land surface



**PILOT STUDY AREA**

DECORAH SHOPPING CENTER ANNEX  
1011-1025 SOUTH MAIN STREET  
WEST BEND, WISCONSIN

FIGURE

**3**

SOUTH MAIN STREET

HAWTHORN DRIVE

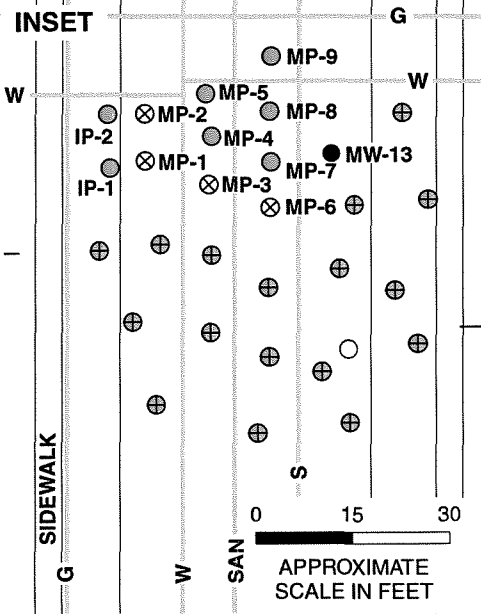
LINCOLN DRIVE WEST

SUNSET DRIVE

SUBJECT SITE

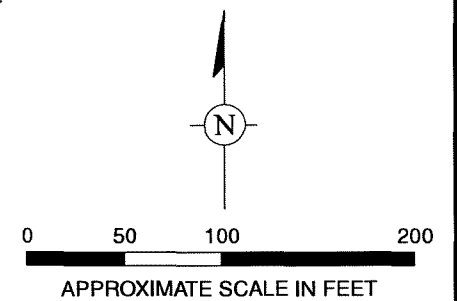
DRY CLEANER

SEE INSET FOR DETAIL



LEGEND

- MONITORING WELL LOCATION
- PIEZOMETER LOCATION
- ⊕ SOIL BORING
- PROPOSED MONITORING WELL
- ⊕ PROPOSED INJECTION WELL
- ⊗ EXISTING INJECTION WELL (MP-3 and MP-6 converted to injection wells on 5/25/05)
- EXISTING GEOPROBE MONITORING WELL
- W WATER LINE (Depth = 6 feet)
- SAN SANITARY SEWER (Depth = 7.2 feet)
- S STORM SEWER (Depth = 5.3 feet)
- G GAS LINE



PROPOSED FULL-SCALE REMEDIATION AREAS

DECORAH SHOPPING CENTER ANNEX  
1011-1025 SOUTH MAIN STREET  
WEST BEND, WISCONSIN

FIGURE

4

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

Facility/Project Name <b>Decorah Shopping Center Annex/WI001054.0001</b>			License/Permit/Monitoring Number		Boring Number <b>IP-1</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name <b>Jim/James</b> Last Name Firm <b>Giles Engineering Associates</b>			Date Drilling Started <b>1/26/05</b>		Date Drilling Completed <b>1/26/05</b>	
WI Unique Well No.		DNR Well ID No.	Well Name	Final Static Water Level Feet		Surface Elevation Feet MSL
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		State Plane _____ N, _____ E <input type="checkbox"/> S <input type="checkbox"/> C <input type="checkbox"/> N <input type="checkbox"/>		Lat _____		Local Grid Location
<b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>24</b> , T <b>11</b> N, R <b>19</b> <input checked="" type="checkbox"/> E <input type="checkbox"/> W		County Code <b>67</b>		Civil Town/City/or Village <b>West Bend</b>		Borehole Diameter <b>2/12</b> inches

Sample Number and Type	Length All. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	36		0	0-4/ 0-1' No recovery due to 8" surface hole. cuttings description: Silt, dark yellowish brown (10 YR 4/6), some clay, little very fine sand, trace organics, rootlets, frozen, crumbly, loose, no odor.										
			2	1-1.4' Silt: As above. 1.4-2.3' Silty Sand: strong brown (7.5 YR 5/6), trace clay, sand very fine to fine well sorted, somewhat frozen, loose, moist, no odor.										
			4	2.3-3.2' Sand: Pale yellow (2.5 Y 7/6), trace silt, very fine to fine grain, well sorted, loose, crumbly, appears to be finely laminated, no odor. 3.2-4.0' Silty Sand: As above, but damp, not frozen, no odor.										
2	36		6	4-8/ 0-3' Sand: Brownish yellow (10 YR 6/8), fine grain, trace very fine, trace medium slight trace fine gravel subangular to subround, moderately sorted, loose, damp, no odor.										
			8	8-12/ 0-0.5' Sand: As above, sharp contact with unit below. 0.5-3.5' Sand: Pale brown (10 YR 6/3) trace to little silt, very fine grain, very fine approaching silt size, very well sorted, uniform, loose to somewhat cohesive, saturated, no noticeable odor.										
3	42		10											

I hereby certify that the information on this form is true and correct to the best of my knowledge.  
Signature Firm **ARCADIS**  
**126 N. Jefferson St, Suite 400**  
**Milwaukee, WI (414)276-7742**

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

Facility/Project Name <b>Decorah Shopping Center Annex/WI001054.0001</b>			License/Permit/Monitoring Number		Boring Number <b>IP-2</b>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name <b>Jim/James</b> Last Name Firm <b>Giles Engineering Associates</b>			Date Drilling Started <b>1/26/05</b>	Date Drilling Completed <b>1/26/05</b>	Drilling Method <b>Geoprobe/HSA</b>
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet	Surface Elevation Feet MSL	Borehole Diameter <b>2/12</b> inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>			Local Grid Location		
State Plane <u>SW</u> <input type="checkbox"/> N, <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> C <input type="checkbox"/> N <input type="checkbox"/> W			Lat <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
Section <u>24</u> , T <u>11</u> , R <u>19</u>			Long <input type="checkbox"/> Feet <input type="checkbox"/> S <input type="checkbox"/> Feet <input type="checkbox"/> W		
Facility ID	County <b>Washington</b>	County Code <b>67</b>	Civil Town/City/or Village <b>West Bend</b>		

Sample Number and Type	Length All & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	36		0-2	0-4/ 0-1' No recovery, hollow stem auger surface hole cuttings are strong brown silt. 1-2.5' Sand: Brownish yellow (10 YR 6/8) very fine to fine grain, trace medium, trace fine gravel subangular to subround, frozen, loose, crumbly, moderately sorted, appears laminated, some strong brown staining in places, no odor. 2.5-4.0' Sand: Yellowish brown (10 YR 5/6), very fine to fine grain, moderately to well sorted, some strong brown (rust-colored) staining 3.2-3.4, uniform, loose, damp, no odor.										
2	24		4-6	4-8/ 0-2' Sand: Brownish yellow (10 YR 6/8), predominately fine grain, some very fine, moderately to well sorted, uniform, loose, damp, no odor.										
3	36		8-10	8-12/ 0-1.0' Clay: Light yellowish brown (10 YR 4/6), trace silt, cohesive, plastic, soft, saturated, no odor. 1-3' Sand: Pale brown (10 YR 6/3), some silt, very fine grain, approaching silt size, very well sorted, uniform, loose to slightly cohesive, saturated, no odor apparent.										

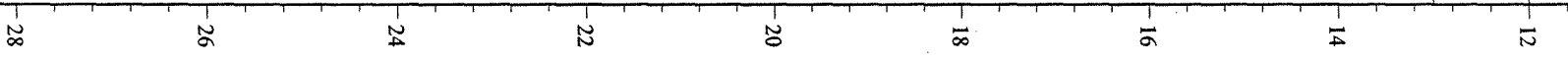
I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

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Sample	Number and Type	Length All. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments		
												Compressive Strength	Moisture Content	Liquid Limit		Plastic Limit	P 200
	4	12		12	12-13/ 0-1' Sand: As above.												
					END OF BORING AT 13'												



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

Facility/Project Name <b>Decorah Shopping Center Annex/WI001054.0001</b>			License/Permit/Monitoring Number		Boring Number <b>MP-1</b>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name <b>Jim/James</b> Last Name _____ Firm <b>Giles Engineering Associates</b>			Date Drilling Started <b>1/26/05</b>	Date Drilling Completed <b>1/26/05</b>	Drilling Method <b>Geoprobe/HSA</b>
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level _____ Feet	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2/12</b> inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E <input type="checkbox"/> S <input type="checkbox"/> C <input type="checkbox"/> N <input type="checkbox"/> Lat _____ <input type="checkbox"/> E <input type="checkbox"/> W			Local Grid Location _____ Feet <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W		
Facility ID		County <b>Washington</b>	County Code <b>67</b>	Civil Town/City/or Village <b>West Bend</b>	

Sample Number and Type	Length All. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200		
1			0	0-1/ No recovery, 12" surface hole, brown silt, topsoil.											
2	36		2	1-5/ 0-0.3' Silty Sand: Strong brown (7.5 YR 5/6), very fine to fine grain, well sorted, laminated, frozen, crumbly, no odor. 0.3-3.0' Sand: Brownish yellow (10 YR 6/6), fine grain, some very fine, trace medium, trace fine gravel subangular to subround, loose, dry, some strong brown staining below 2.0, no odor.											
3	36		6	5-9/ 0-1.5' Sand: Brownish yellow (10 YR 6/8), fine grain, some very fine, trace medium, little silt, trace subangular to subround fine gravel, loose, damp, no odor. 1.5-2.5' Clay/Sand/Gravel: Pale brown, sand very fine to very coarse, gravel subangular to subround up to 0.5", little silt, very poorly sorted, till, clay plastic, cohesive, soft, saturated, no odor. 2.5-3.0' Silty Sand: Pale brown (10 YR 6/3), very silty, very fine grain, uniform, well sorted, somewhat cohesive, saturated, no odor.											
			10	9-13/ 0-2.5' Silty Sand: As above, silt content decreases down section.											

I hereby certify that the information on this form is true and correct to the best of my knowledge.  
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Route to: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Decorah Shopping Center Annex/WI001054.0001</b>			License/Permit/Monitoring Number		Boring Number <b>MP-2</b>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name <b>Jim/James</b> Last Name Firm <b>Giles Engineering Associates</b>			Date Drilling Started <b>1/26/05</b>	Date Drilling Completed <b>1/26/05</b>	Drilling Method <b>Geoprobe/HSA</b>
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet	Surface Elevation Feet MSL	Borehole Diameter <b>2/12</b> inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>			Local Grid Location		
State Plane <u>SW</u> <u>1/4</u> of <u>NW</u> <u>1/4</u> of Section <u>24</u> ,T <u>11</u> N,R <u>19</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W			Lat _____ <input type="checkbox"/> N <input type="checkbox"/> E Long _____ Feet <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W		
Facility ID		County <b>Washington</b>	County Code <b>67</b>	Civil Town/City/or Village <b>West Bend</b>	

Sample Number and Type	Length All. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200		
1	24		0	0-4/ 0-2' No recovery, brown silty topsoil with some sand in cuttings.											
			2	2-4' Sand: Yellowish brown (10 YR 5/8), fine grain, some very fine, well sorted, uniform, loose, damp, no odor.											
2	30		4	4-8/ 0-0.5' Sand: As above. 0.5-2.0' Sand: Light yellowish brown (10 YR 6/4), fine grain, trace very fine, well sorted, uniform, loose, moist, no odor.											
			6	2.0-2.5' Clay/Sand/Gravel: Yellowish brown (10 YR 5/4), sand very fine to very coarse, some silt, gravel subangular to subround up to 0.5", clay plastic, cohesive, soft, very poorly sorted, till, saturated, no odor.											
3	36		8	8-12/ 0-0.5' Clay/Sand/Gravel: As above. 0.5-1.3' Clay: Pale brown (10 YR 6/3), plastic, cohesive, soft, saturated, uniform, no odor.											
			10	1.3-3.0' Sand: Color as above, some silt, very fine grain, very fine to approaching silt size, uniform, slightly cohesive, saturated,											

I hereby certify that the information on this form is true and correct to the best of my knowledge.  
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**126 N. Jefferson St, Suite 400**  
**Milwaukee, WI (414)276-7742**


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

Facility/Project Name <b>Decorah Shopping Center Annex/WI001054.0001</b>			License/Permit/Monitoring Number		Boring Number <b>MP - 3</b>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name <b>Jim/James</b> Last Name Firm <b>Giles Engineering Associates</b>			Date Drilling Started <b>1/26/05</b>	Date Drilling Completed <b>1/26/05</b>	Drilling Method <b>Geoprobe/HSA</b>
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet	Surface Elevation Feet MSL	Borehole Diameter <b>2/12</b> inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane <u>      </u> N, <u>      </u> E S <input type="checkbox"/> / C <input type="checkbox"/> N <input type="checkbox"/> Lat <u>      </u> <input type="checkbox"/> N <input type="checkbox"/> E <b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>24</b> , T <b>11</b> N, R <b>19</b> <input checked="" type="checkbox"/> E <input type="checkbox"/> W Long <u>      </u> Feet <input type="checkbox"/> S <u>      </u> Feet <input type="checkbox"/> W			Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID	County <b>Washington</b>	County Code <b>67</b>	Civil Town/City/or Village <b>West Bend</b>		

Sample Number and Type	Length All. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	30		0	0-4/ 0-1.5' No recovery, brown silt, topsoil, in hollow stem auger cuttings.										
			2	1.5-4.0' Sand: Brownish yellow (10 YR 6/6), very fine to fine grain, predominately very fine, some silt in places, loose, moderately sorted, dry, no odor.										
2	36		4	4-8/ 0-2' Sand: As above, slight coarsening downward to predominately fine sand at 2.0'.										
			6	2.0-2.5' Sand: Very pale brown (10 YR 7/4), little fine subangular to subround gravel, sand very fine to very coarse, predominately fine to medium, poorly sorted, loose, damp, no odor, sharp contact with unit below. 2.5-2.8' Clay: Dark yellowish brown (10 YR 4/6), trace sand and gravel, could be from units above or below, plastic, cohesive, soft, moist, no odor.										
3	33.6		8	2.8-3.0' Sand: As above, damp.										
			10	8-12/ 0-0.3' Sand: As above, but wet to saturated, no odor. 0.3-2.8' Silty Sand: Pale brown (10 YR 6/3), silt grades out somewhat below 2.0, very										

I hereby certify that the information on this form is true and correct to the best of my knowledge.  
Signature  Firm **ARCADIS**  
**126 N. Jefferson St, Suite 400**  
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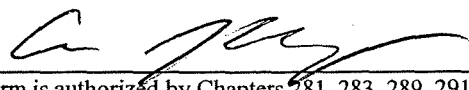
Route to:  Watershed/Wastewater  Waste Management  
 Remediation/Redevelopment  Other

Facility/Project Name <b>Decorah Shopping Center Annex/WI001054.0001</b>			License/Permit/Monitoring Number		Boring Number <b>MP-4</b>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name <b>Jim/James</b> Last Name Firm <b>Giles Engineering Associates</b>			Date Drilling Started <b>1/26/05</b>	Date Drilling Completed <b>1/26/05</b>	Drilling Method <b>Geoprobe/HSA</b>
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet	Surface Elevation Feet MSL	Borehole Diameter <b>2/12</b> inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane <u>SW</u> <input type="checkbox"/> N, <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> C <input type="checkbox"/> N <input type="checkbox"/> W			Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
SW 1/4 of NW 1/4 of Section <b>24</b> , T <b>11</b> N, R <b>19</b> E			Long _____ Feet _____ Feet _____ Feet _____ Feet		

Facility ID	County <b>Washington</b>	County Code <b>67</b>	Civil Town/City/or Village <b>West Bend</b>
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Sample Number and Type	Length All. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200		
1	30		0	0-4/ 0-1.5' No recovery, soil cuttings from hollow stem auger are brown silt, topsoil.											
			2	1.5-4.0' Sand: Yellowish brown (10 YR 5/6), little silt in places, trace gravel angular to subround up to 2", very fine to fine grain, moderately sorted, loose, dry, no odor.											
2	30		4	4-8/ 0-0.4' Sand: As above.											
			6	0.4-1.3' Sand: Brownish yellow (10 YR 6/8), fine grain, trace medium to coarse, well sorted, loose, damp, no odor. 1.3-2.5' Sand: Yellowish brown (10 YR 5/4), fine to coarse grain, predominately fine, little gravel angular to subround fine up to 2", poorly sorted, loose, damp, no odor.											
3	36		8	8-12/ 0-3.0' Silty Sand: Pale brown (10 YR 6/3), silt grades out below 2.0, very silty 0-2.0, very fine sand, approaching silt size, loose, uniform, well sorted, saturated, no odor.											

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

Signature  Firm **ARCADIS**  
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Milwaukee, WI (414)276-7742

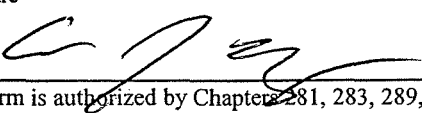
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Route to:  Watershed/Wastewater  Waste Management  
 Remediation/Redevelopment  Other

Facility/Project Name <b>Decorah Shopping Center Annex/WI001054.0001</b>			License/Permit/Monitoring Number		Boring Number <b>MP-5</b>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name <b>Jim/James</b> Last Name Firm <b>Giles Engineering Associates</b>			Date Drilling Started <b>1/26/05</b>	Date Drilling Completed <b>1/26/05</b>	Drilling Method <b>Geoprobe/HSA</b>
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet	Surface Elevation Feet MSL	Borehole Diameter <b>2/12</b> inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>			Local Grid Location		
State Plane <u>SW</u> <u>1/4</u> of <u>NW</u> <u>1/4</u> of Section <u>24</u> ,T <u>11</u> N,R <u>19</u> <input checked="" type="checkbox"/> W			Lat	<input type="checkbox"/> N <input type="checkbox"/> E	
			Long	<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID	County <b>Washington</b>	County Code <b>67</b>	Civil Town/City/or Village <b>West Bend</b>		

Sample Number and Type	Length All. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200		
1	30		0	0-4/ 0-1.5' No recovery, brown silt topsoil cuttings, frozen.											
			2	1.5-4.0' Sand: Yellowish brown (10 YR 5/8), little gravel angular to subround up to 1", loose, very fine to fine grain, moderately sorted, damp, no odor.											
2	30		4	4-8/ 0-2.0' Sand: Color as above, fine grain, little very fine, well sorted, loose, damp, no odor.											
			6	2.0-2.2' Sand and Gravel: Light yellowish brown (10 YR 6/4), sand very fine to very coarse, predominately fine, gravel fine, subangular to subround up to 0.5", trace silt and clay, loose, damp, no odor. 2.2-2.5' Clay: Pale brown (10 YR 6/3), trace sand and gravel as above, could be introduced from drilling, plastic, cohesive, soft, uniform, saturated, no odor.											
3	36		8	8-12/ 0-3.0' Silty Sand: Pale brown as above, silt grades out somewhat below 2.0, very silty 0-2.0, very fine grain, approaching silt size, well sorted, uniform, saturated, no apparent											

I hereby certify that the information on this form is true and correct to the best of my knowledge.  
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**126 N. Jefferson St, Suite 400**  
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Route to:  Watershed/Wastewater  Waste Management  
 Remediation/Redevelopment  Other

Facility/Project Name <b>Decorah Shopping Center Annex/WI001054.0001</b>			License/Permit/Monitoring Number		Boring Number <b>MP-6</b>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name <b>Jim/James</b> Last Name Firm <b>Giles Engineering Associates</b>			Date Drilling Started <b>1/27/05</b>	Date Drilling Completed <b>1/27/05</b>	Drilling Method <b>Geoprobe/HSA</b>
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet	Surface Elevation Feet MSL	Borehole Diameter <b>2/12</b> inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E <input type="checkbox"/> S <input type="checkbox"/> C <input type="checkbox"/> N <input type="checkbox"/> Lat _____ <b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>24</b> , T <b>11</b> N, R <b>19</b> <input checked="" type="checkbox"/> E <input type="checkbox"/> W Long _____ Feet <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W			Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID		County <b>Washington</b>	County Code <b>67</b>	Civil Town/City/or Village <b>West Bend</b>	

Sample Number and Type	Length Ali. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	30		0	0-4/ 0-1.5' Open hole.										
			2	1.5-3.0' Sand: Strong brown (7.5 YR 5/6), very fine to fine grain, well sorted, loose, moist, no odor,										
			4	3.0-4.0' Sand: As above, but color changes to brownish yellow (10 YR 6/6), due to less moisture, damp, no odor.										
2	24		4	4-8/ 0-1.5' Sand: As above, grading into unit below, grades into light yellowish brown (10 YR 6/4) and coarsens to fine grained with trace medium at 1.5'.										
			6	1.5-2.0' Sand: Color as above, but very fine to coarse, predominately fine, little gravel angular to subround up to 2", trace clay nodules, may have been a thin layer, clay is soft, plastic, cohesive, damp to moist, no odor.										
3	36		8	8-12/ 0-0.8' Sand: With gravel and trace clay as above.										
			10	0.8-3.0' Silty Sand: Pale brown (10 YR 6/3), very silty, sand very fine, silt grades out somewhat below 2.0, well sorted, loose, saturated, no odor.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.  
Signature  Firm **ARCADIS**  
**126 N. Jefferson St, Suite 400**  
**Milwaukee, WI (414)276-7742**

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




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

Facility/Project Name <b>Decorah Shopping Center Annex/WI001054.0001</b>			License/Permit/Monitoring Number		Boring Number <b>MP-7</b>		
Boring Drilled By: Name of crew chief (first, last) and Firm First Name <b>Jim/James</b> Last Name _____ Firm <b>Giles Engineering Associates</b>			Date Drilling Started <b>1/27/05</b>		Date Drilling Completed <b>1/27/05</b>		
WI Unique Well No.		DNR Well ID No.		Well Name		Final Static Water Level _____ Feet	
				Surface Elevation _____ Feet MSL		Borehole Diameter <b>2/12</b> inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>			Local Grid Location				
State Plane _____ N, _____ E S <input type="checkbox"/> / C <input type="checkbox"/> / N <input type="checkbox"/>			Lat _____			<input type="checkbox"/> N <input type="checkbox"/> E	
<b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>24</b> , T <b>11</b> N, R <b>19</b> <input checked="" type="checkbox"/> E <input type="checkbox"/> W			Long _____			<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County <b>Washington</b>		County Code <b>67</b>		Civil Town/City/or Village <b>West Bend</b>	

Sample Number and Type	Length All. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	24		0	0-4/ 0-2.0' Open hole from hollow stem auger surface boring.										
			2	2.0-4.0' Sand: Brownish yellow (10 YR 6/6), very fine to fine grain, well sorted, loose, dry, no odor.										
2	36		4	4-8/ 0-2.5' Sand: Brownish yellow (10 YR 6/8), fine grain, little very fine, trace medium to coarse, trace fine gravel subround, moderately sorted, loose, dry, no odor.										
			6	2.5-3.0' Sand and Gravel: Yellowish brown (10 YR 5/6), sand all sizes, gravel angular to subround up to 1", contains some clay/silt nodules, may have been layers, mixed with sand and gravel in matrix, soft, plastic, cohesive, moist, no odor.										
3	42		8	8-12/ 0-0.6' Sand and Gravel: As above, but no clay.										
			10	0.6-3.5' Silty Sand: Pale brown (10 YR 6/3), very silty 0.6-2.0', very fine grain sand, almost silt size grains, well sorted, loose, saturated, no odor.										

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

Signature  Firm **ARCADIS**  
126 N. Jefferson St, Suite 400  
Milwaukee, WI (414)276-7742

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

Facility/Project Name <b>Decorah Shopping Center Annex/WI001054.0001</b>			License/Permit/Monitoring Number		Boring Number <b>MP - 8</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name <b>Jim/James</b> Last Name _____ Firm <b>Giles Engineering Associates</b>			Date Drilling Started <b>1/27/05</b>		Date Drilling Completed <b>1/27/05</b>	
WI Unique Well No.		DNR Well ID No.	Well Name	Final Static Water Level _____ Feet		Surface Elevation _____ Feet MSL
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E S <input type="checkbox"/> / C <input type="checkbox"/> / N <input type="checkbox"/>   Lat _____ <b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>24</b> , T <b>11</b> N, R <b>19</b> <input checked="" type="checkbox"/> E <input type="checkbox"/> W   Long _____			Local Grid Location _____ Feet <input type="checkbox"/> N <input type="checkbox"/> E _____ Feet <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W			

Facility ID		County <b>Washington</b>		County Code <b>67</b>		Civil Town/City/or Village <b>West Bend</b>	
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Sample Number and Type	Length All. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200		
1	12		0	0-4/ 0-1.0' Sand: Yellowish brown (10 YR 5/8), very fine to fine grain, trace medium, trace fine gravel subround, moderately sorted, loose, dry, no odor.											
			2												
2	36		4	4-8/ 0-1.5' Sand: As above.  1.5-2.3' Sand: Brownish yellow (10 YR 6/6), fine grain, little very fine, well sorted, loose, dry, no odor. 2.3-3.0' Sand: Yellowish brown (10 YR 5/6), some gravel fine up to approximately 1", subangular to subround, a few clay nodules, could have been thin layers (<0.5"), soft, plastic, cohesive, damp, no odor.											
			6												
3	45.6		8	8-12/ 0-0.2' Sand: With gravel and clay as above. 0.2-1.5' Silt: Pale brown (10 YR 6/3), granular, called very fine silty sand in other borings, but slightly finer here, grades into very fine silty sand below 1.5', somewhat cohesive, saturated, no odor. 1.5-3.8' Silty Sand: Color as above,											
			10												

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

Signature 	Firm <b>ARCADIS</b> <b>126 N. Jefferson St, Suite 400</b> <b>Milwaukee, WI (414)276-7742</b>
--	--

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Sample		Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length All. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200	
				continuation of above unit, but slightly coarser, very fine sand, silty, well sorted, uniform, saturated, no odor.										
4	12		12	12-13/ 0-1.0' Silty sand: As above.										
			14	<b>END OF BORING AT 13'</b>										
			16											
			18											
			20											
			22											
			24											
			26											
			28											


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

Facility/Project Name <b>Decorah Shopping Center Annex/WI001054.0001</b>			License/Permit/Monitoring Number		Boring Number <b>MP-9</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name <b>Jim/James</b> Last Name Firm <b>Giles Engineering Associates</b>			Date Drilling Started <b>1/27/05</b>	Date Drilling Completed <b>1/27/05</b>	Drilling Method <b>Geoprobe/HSA</b>	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level _____ Feet	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2/12</b> inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>			Local Grid Location			
State Plane _____ N, _____ E S <input type="checkbox"/> / C <input type="checkbox"/> / N <input type="checkbox"/>			Lat _____ <input type="checkbox"/> N <input type="checkbox"/> E			
<b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>24</b> , T <b>11</b> N, R <b>19</b> <input checked="" type="checkbox"/> E <input type="checkbox"/> W			Long _____ Feet <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W			

Facility ID	County <b>Washington</b>	County Code <b>67</b>	Civil Town/City/or Village <b>West Bend</b>
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Sample Number and Type	Length All. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	24		0	0-4/ 0-2.0' Open hole from hollow stem auger surface boring.										
			2	2.0-4.0' Sand: Yellowish brown (10 YR 5/8), very fine to fine grain, trace medium, moderately sorted, loose, damp, no odor.										
			4	4-8/ 0-2.8' Sand: As above, with trace coarse, trace gravel subangular to subround up to 0.7", damp, no odor.										
2	36		6	2.8-3.0' Clay/Sand/Gravel: Yellowish brown (10 YR 5/6), could be separate clay and sand units pushed together by drilling, sand very fine to coarse, predominately fine to medium, trace subangular to subround gravel, clay soft, cohesive, plastic, wet, no odor.										
			8	8-12/ 0-2.5' Silty Sand: Pale brown (10 YR 6/3), very silty 0-1, sand very fine, almost as fine as silt, somewhat cohesive, well sorted,										
3	30		10											

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

Signature  Firm **ARCADIS**  
126 N. Jefferson St, Suite 400  
Milwaukee, WI (414)276-7742

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Sample		Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length All. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200	
				saturated, no odor, silt grades out somewhat below 1.5.										
3	12		12	12-13/ 0-1.0' Silty Sand: As above.										
			14	<b>END OF BORING AT 13'</b>										
			16											
			18											
			20											
			22											
			24											
			26											
			28											

Facility/Project Name <b>Decorah Shopping Center Annex</b>		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name <b>IP-1</b>	
Facility License, Permit or Monitoring Number		Local Grid Origin Lat. _____ Long _____ or St. Plane _____ ft. N, _____ ft. E		Wis. Unique Well Number	
Type of Well Water Table Observation Well <input type="checkbox"/> 11 Injection <input type="checkbox"/> 12		Section Location of Waste/Source _____ 1/4 of SE 1/4 of Sec. <u>2</u> T. <u>6</u> N, R. <u>21</u> <input type="checkbox"/> E. <input checked="" type="checkbox"/> W.		Date Well Installed <b>4/26/05</b>	
Distance Well Is From Waste/Source Boundary _____ ft.		Location of Well Relative to Waste/Source <input type="checkbox"/> Upgradient <input type="checkbox"/> Sidegradient <input type="checkbox"/> Downgradient <input type="checkbox"/> Not Known		Well Installed by: Name (first, last) and Firm <b>Giles Engineering Associates, Inc.</b>	
Is Well A Point of Enforcement Std. Application? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					

A. Protective pipe, top elevation NA ft. MSL  
 B. Well casing, top elevation NA ft. MSL  
 C. Land surface elevation NA ft. MSL  
 D. Surface seal, bottom \_\_\_\_\_ ft MSL or 1.0 ft.

12. USCS classification of soil near screen:  
 GP  GM  GC  GW  SW  SP   
 SM  SC  ML  MH  CL  CH   
 Bedrock

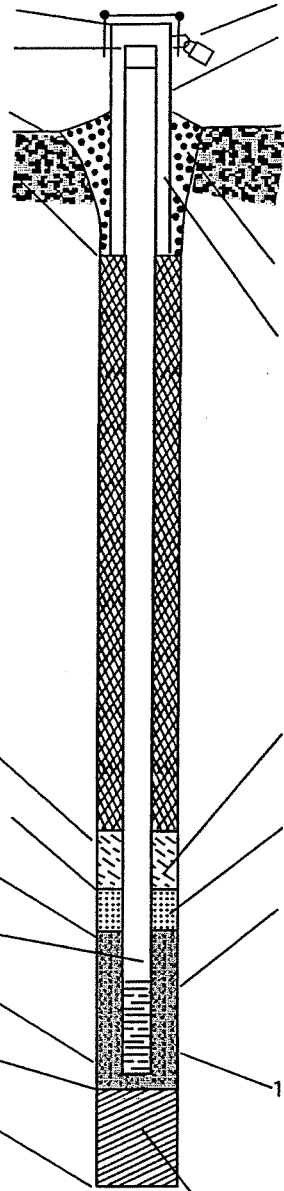
13. Sieve analysis attached?  Yes  No

14. Drilling method used: Rotary  50  
 Hollow Stem Auger  41  
Geoprobe Other

15. Drilling fluid used: Water  02 Air  01  
 Drilling Mud  03 None  99

16. Drilling additives used?  Yes  No  
 Describe \_\_\_\_\_

17. Source of Water (attached analysis if required):  
 \_\_\_\_\_



1. Cap and lock? (Cap no lock)  Yes  No

2. Protective cover pipe:  
 a. Inside diameter: 8.0 in.  
 b. Length: 1.0 ft.  
 c. Material: Steel  04  
 Other   
 d. Additional protection?  Yes  No  
 If yes, describe: \_\_\_\_\_

3. Surface seal: Bentonite  30  
 Concrete  01  
 Other

4. Material between well casing and protective pipe:  
 Bentonite  30  
 Annular space seal   
None Other

5. Annular space seal: a. Granular Bentonite  33  
 b. \_\_\_\_\_ Lbs/gal mud weight..... Bentonite-sand slurry  35  
 c. \_\_\_\_\_ Lbs/gal mud weight..... Bentonite-cement grout  31  
 d. \_\_\_\_\_ % Bentonite..... Bentonite-cement grout  50  
 e. \_\_\_\_\_ Ft<sup>3</sup> volume added for any of the above

f. How installed: Tremie  01  
 Tremie pumped  02  
 Gravity  08

6. Bentonite seal: a. Granular Bentonite  33  
 b.  1/4 in.  3/8 in.  1/2 in. bentonite pellets  32  
 c. NA Other

7. Fine sand Material: Manufacturer, product name and mesh size  
 a. Red Flint #15  
 b. Volume added \_\_\_\_\_ ft<sup>3</sup>

8. Filter pack material: Manufacturer, product name and mesh size  
 a. Red Flint #40  
 b. Volume added \_\_\_\_\_ ft<sup>3</sup>

9. Well casing: Flush threaded PVC schedule 40  23  
 Flush threaded PVC schedule 80  24  
 Other

10. Screen material: PVC  
 a. Screen type: Factory cut  11  
 Continuous slot  01  
 Other   
 b. Manufacturer Environmental Manufacturing  
 c. Slot size: 0.010 in.  
 d. Slotted length: 10 ft.

11. Backfill material (below filter pack): None  14  
 Other

E. Bentonite seal, top \_\_\_\_\_ ft. MSL or NA ft.  
 F. Fine sand, top \_\_\_\_\_ ft. MSL or 6.0 ft.  
 G. Filter pack, top \_\_\_\_\_ ft. MSL or 7.0 ft.  
 H. Screen joint, top \_\_\_\_\_ ft. MSL or 7.0 ft.  
 I. Well bottom \_\_\_\_\_ ft. MSL or 12.0 ft.  
 J. Filter pack, bottom \_\_\_\_\_ ft. MSL or 12.0 ft.  
 K. Borehole bottom \_\_\_\_\_ ft. MSL or 12.0 ft.  
 L. Borehole diameter 2.00 in.  
 M. O.D. well casing 1.37 in.  
 N. I.D. well casing 1.06 in.

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

Signature AM Firm **ARCADIS**  
 126 N. Jefferson Street  
 Milwaukee, WI (414) 276-7742

Facility/Project Name <b>Decorah Shopping Center Annex</b>		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name <b>IP-2</b>	
Facility License, Permit or Monitoring Number		Local Grid Origin Lat. _____ Long _____ or St. Plane _____ ft. N, _____ ft. E		Wis. Unique Well Number _____ DNR Well Number _____	
Type of Well Water Table Observation Well <input type="checkbox"/> 11 Injection <input type="checkbox"/> 12		Section Location of Waste/Source _____ 1/4 of _____ 1/4 of Sec _____ T. _____ N,R _____ <input type="checkbox"/> E. <input type="checkbox"/> W.		Date Well Installed <b>01/26/05</b>	
Distance Well Is From Waste/Source Boundary _____ ft.		Location of Well Relative to Waste/Source <input type="checkbox"/> Upgradient <input type="checkbox"/> Sidegradient <input checked="" type="checkbox"/> Downgradient <input type="checkbox"/> Not Known		Well Installed by: Name (first, last) and Firm <b>Giles Engineering Associates, Inc.</b>	
Is Well A Point of Enforcement Std. Application? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					

A. Protective pipe, top elevation NA ft. MSL  
 B. Well casing, top elevation NA ft. MSL  
 C. Land surface elevation NA ft. MSL  
 D. Surface seal, bottom \_\_\_\_\_ ft MSL or 1.0 ft.

12. USCS classification of soil near screen:  
 GP  GM  GC  GW  SW  SP   
 SM  SC  ML  MH  CL  CH   
 Bedrock

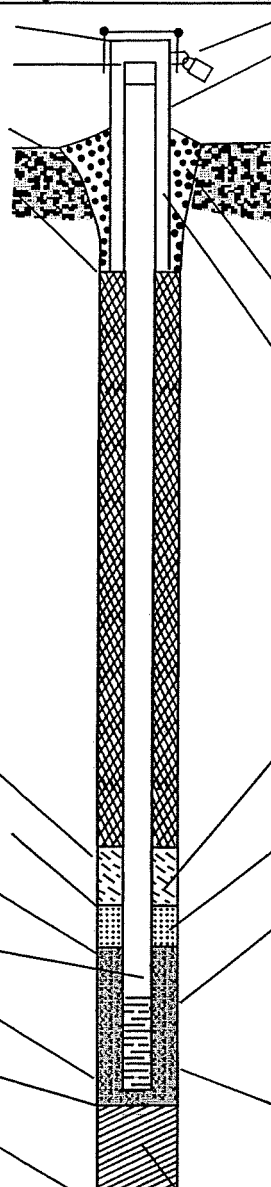
13. Sieve analysis attached?  Yes  No

14. Drilling method used: Rotary  50  
 Hollow Stem Auger  41  
Geoprobe Other

15. Drilling fluid used: Water  02 Air  01  
 Drilling Mud  03 None  99

16. Drilling additives used?  Yes  No  
 Describe \_\_\_\_\_

17. Source of Water (attached analysis if required):  
 \_\_\_\_\_



1. Cap and lock? (Cap no lock)  Yes  No  
 2. Protective cover pipe:  
 a. Inside diameter: 8.0 in.  
 b. Length: 1.0 ft.  
 c. Material: Steel  04  
 Other   
 d. Additional protection?  Yes  No  
 If yes, describe: \_\_\_\_\_

3. Surface seal: Bentonite  30  
 Concrete  01  
 Other

4. Material between well casing and protective pipe:  
 Bentonite  30  
 Annular space seal   
None Other

5. Annular space seal: a. Granular Bentonite  33  
 b. \_\_\_\_\_ Lbs/gal mud weight..... Bentonite-sand slurry  35  
 c. \_\_\_\_\_ Lbs/gal mud weight..... Bentonite-cement grout  31  
 d. \_\_\_\_\_ % Bentonite..... Bentonite-cement grout  50  
 e. \_\_\_\_\_ Ft<sup>3</sup> volume added for any of the above  
 f. How installed: Tremie  01  
 Tremie pumped  02  
 Gravity  08

6. Bentonite seal: a. Granular Bentonite  33  
 b.  1/4 in.  3/8 in.  1/2 in. bentonite pellets  32  
 c. NA Other

7. Fine sand Material: Manufacturer, product name and mesh size  
 a. Red Flint No. 15  
 b. Volume added \_\_\_\_\_ ft<sup>3</sup>

8. Filter pack material: Manufacturer, product name and mesh size  
 a. Red Flint No. 40  
 b. Volume added \_\_\_\_\_ ft<sup>3</sup>

9. Well casing: Flush threaded PVC schedule 40  23  
 Flush threaded PVC schedule 80  24  
 Other

10. Screen material: PVC  
 a. Screen type: Factory cut  11  
 Continuous slot  01  
 Other   
 b. Manufacturer Monoflex  
 c. Slot size: 0.010 in.  
 d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None  14  
 Other

E. Bentonite seal, top \_\_\_\_\_ ft. MSL or NA ft.  
 F. Fine sand, top \_\_\_\_\_ ft. MSL or 7.0 ft.  
 G. Filter pack, top \_\_\_\_\_ ft. MSL or 8.0 ft.  
 H. Screen joint, top \_\_\_\_\_ ft. MSL or 8.0 ft.  
 I. Well bottom \_\_\_\_\_ ft. MSL or 13.0 ft.  
 J. Filter pack, bottom \_\_\_\_\_ ft. MSL or 13.0 ft.  
 K. Borehole bottom \_\_\_\_\_ ft. MSL or 13.0 ft.  
 L. Borehole diameter 2.00 in.  
 M. O.D. well casing 1.37 in.  
 N. I.D. well casing 1.06 in.

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

Signature A. Mc Firm **ARCADIS**  
 126 N. Jefferson Street  
 Milwaukee, WI (414) 276-7742

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 293, 295, and 299, Wis. Stats, and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.  
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Facility/Project Name <b>Decorah Shopping Center Annex</b>	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name <b>MP-1</b>
Facility License, Permit or Monitoring Number	Local Grid Origin Lat. _____ Long _____ or St. Plane _____ ft. N, _____ ft. E	Wis. Unique Well Number _____ DNR Well Number _____
Type of Well Water Table Observation Well <input type="checkbox"/> 11 Injection <input type="checkbox"/> 12	Section Location of Waste/Source _____ 1/4 of _____ 1/4 of Sec _____ T. _____ N, R _____ <input type="checkbox"/> E. <input type="checkbox"/> W.	Date Well Installed <b>01/26/05</b>
Distance Well Is From Waste/Source Boundary _____ ft.	Location of Well Relative to Waste/Source <input type="checkbox"/> Upgradient <input type="checkbox"/> Sidegradient <input checked="" type="checkbox"/> Downgradient <input type="checkbox"/> Not Known	Well Installed by: Name (first, last) and Firm <b>Giles Engineering Associates, Inc.</b>
Is Well A Point of Enforcement Std. Application? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

A. Protective pipe, top elevation NA ft. MSL  
 B. Well casing, top elevation NA ft. MSL  
 C. Land surface elevation NA ft. MSL  
 D. Surface seal, bottom \_\_\_\_\_ ft. MSL or 1.0 ft.

12. USCS classification of soil near screen:  
 GP  GM  GC  GW  SW  SP   
 SM  SC  ML  MH  CL  CH   
 Bedrock

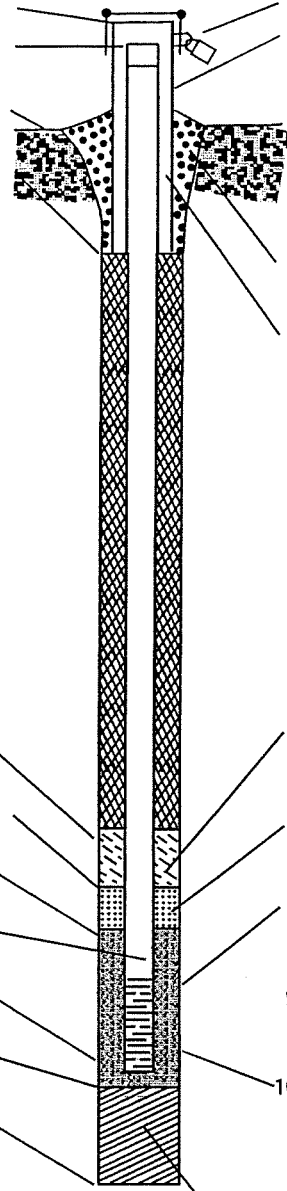
13. Sieve analysis attached?  Yes  No

14. Drilling method used: Rotary  50  
 Hollow Stem Auger  41  
Geoprobe Other

15. Drilling fluid used: Water  02 Air  01  
 Drilling Mud  03 None  99

16. Drilling additives used?  Yes  No  
 Describe \_\_\_\_\_

17. Source of Water (attached analysis if required):  
 \_\_\_\_\_



1. Cap and lock? (Cap no lock)  Yes  No

2. Protective cover pipe:  
 a. Inside diameter: 8.0 in.  
 b. Length: 1.0 ft.  
 c. Material: Steel  04  
 Other   
 d. Additional protection?  Yes  No  
 If yes, describe: \_\_\_\_\_

3. Surface seal: Bentonite  30  
 Concrete  01  
 Other

4. Material between well casing and protective pipe:  
 Bentonite  30  
 Annular space seal   
None Other

5. Annular space seal: a. Granular Bentonite  33  
 b. \_\_\_\_\_ Lbs/gal mud weight..... Bentonite-sand slurry  35  
 c. \_\_\_\_\_ Lbs/gal mud weight..... Bentonite-cement grout  31  
 d. \_\_\_\_\_ % Bentonite..... Bentonite-cement grout  50  
 e. \_\_\_\_\_ Ft<sup>3</sup> volume added for any of the above  
 f. How installed: Tremie  01  
 Tremie pumped  02  
 Gravity  08

6. Bentonite seal: a. Granular Bentonite  33  
 b.  1/4 in.  3/8 in.  1/2 in. bentonite pellets  32  
 c. NA Other

7. Fine sand Material: Manufacturer, product name and mesh size  
 a. Red Flint No. 15  
 b. Volume added \_\_\_\_\_ ft<sup>3</sup>

8. Filter pack material: Manufacturer, product name and mesh size  
 a. Red Flint No. 40  
 b. Volume added \_\_\_\_\_ ft<sup>3</sup>

9. Well casing: Flush threaded PVC schedule 40  23  
 Flush threaded PVC schedule 80  24  
 Other

10. Screen material: PVC  
 a. Screen type: Factory cut  11  
 Continuous slot  01  
 Other   
 b. Manufacturer Monoflex  
 c. Slot size: 0.010 in.  
 d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None  14  
 Other

E. Bentonite seal, top \_\_\_\_\_ ft. MSL or NA ft.  
 F. Fine sand, top \_\_\_\_\_ ft. MSL or 7.0 ft.  
 G. Filter pack, top \_\_\_\_\_ ft. MSL or 8.0 ft.  
 H. Screen joint, top \_\_\_\_\_ ft. MSL or 8.0 ft.  
 I. Well bottom \_\_\_\_\_ ft. MSL or 13.0 ft.  
 J. Filter pack, bottom \_\_\_\_\_ ft. MSL or 13.0 ft.  
 K. Borehole bottom \_\_\_\_\_ ft. MSL or 13.0 ft.  
 L. Borehole diameter 2.00 in.  
 M. O.D. well casing 1.37 in.  
 N. I.D. well casing 1.06 in.

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

Signature A.M. Firm **ARCADIS**  
 126 N. Jefferson Street  
 Milwaukee, WI (414) 276-7742



Facility/Project Name <b>Decorah Shopping Center Annex</b>		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name <b>MP-2</b>	
Facility License, Permit or Monitoring Number		Local Grid Origin Lat. _____ Long _____ or St. Plane _____ ft. N, _____ ft. E		Wis. Unique Well Number _____ DNR Well Number _____	
Type of Well Water Table Observation Well <input type="checkbox"/> 11 Injection <input type="checkbox"/> 12		Section Location of Waste/Source _____ 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R _____ <input type="checkbox"/> E. <input type="checkbox"/> W.		Date Well Installed <b>01/26/05</b>	
Distance Well Is From Waste/Source Boundary _____ ft.		Location of Well Relative to Waste/Source <input type="checkbox"/> Upgradient <input type="checkbox"/> Sidegradient <input checked="" type="checkbox"/> Downgradient <input type="checkbox"/> Not Known		Well Installed by: Name (first, last) and Firm <b>Giles Engineering Associates, Inc.</b>	
Is Well A Point of Enforcement Std. Application? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					

A. Protective pipe, top elevation NA ft. MSL  
 B. Well casing, top elevation NA ft. MSL  
 C. Land surface elevation NA ft. MSL  
 D. Surface seal, bottom \_\_\_\_\_ ft MSL or 1.0 ft.

12. USCS classification of soil near screen:  
 GP  GM  GC  GW  SW  SP   
 SM  SC  ML  MH  CL  CH   
 Bedrock

13. Sieve analysis attached?  Yes  No

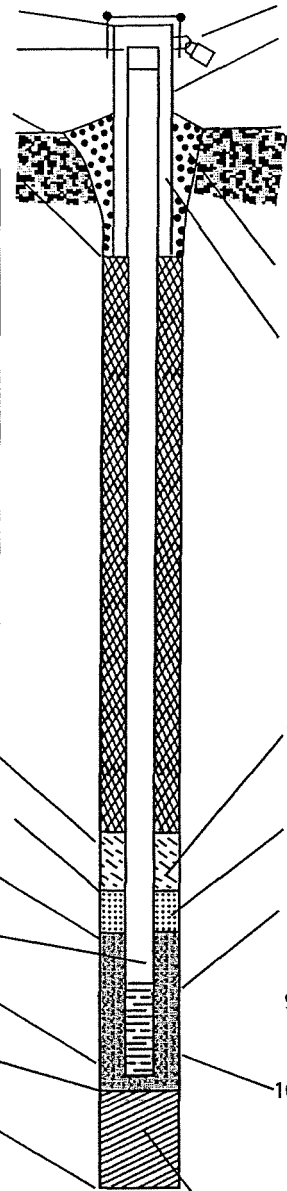
14. Drilling method used: Rotary  50  
 Hollow Stem Auger  41  
Geoprobe Other

15. Drilling fluid used: Water  02 Air  01  
 Drilling Mud  03 None  99

16. Drilling additives used?  Yes  No  
 Describe \_\_\_\_\_

17. Source of Water (attached analysis if required):  
 \_\_\_\_\_

E. Bentonite seal, top \_\_\_\_\_ ft. MSL or NA ft.  
 F. Fine sand, top \_\_\_\_\_ ft. MSL or 6.0 ft.  
 G. Filter pack, top \_\_\_\_\_ ft. MSL or 7.0 ft.  
 H. Screen joint, top \_\_\_\_\_ ft. MSL or 7.0 ft.  
 I. Well bottom \_\_\_\_\_ ft. MSL or 12.0 ft.  
 J. Filter pack, bottom \_\_\_\_\_ ft. MSL or 12.0 ft.  
 K. Borehole bottom \_\_\_\_\_ ft. MSL or 12.0 ft.  
 L. Borehole diameter 2.00 in.  
 M. O.D. well casing 1.37 in.  
 N. I.D. well casing 1.06 in.



1. Cap and lock? (Cap no lock)  Yes  No  
 2. Protective cover pipe:  
 a. Inside diameter: 8.0 in.  
 b. Length: 1.0 ft.  
 c. Material: Steel  04  
 Other   
 d. Additional protection?  Yes  No  
 If yes, describe: \_\_\_\_\_

3. Surface seal: Bentonite  30  
 Concrete  01  
 Other

4. Material between well casing and protective pipe:  
None Bentonite  30  
 Annular space seal   
 Other

5. Annular space seal: a. Granular Bentonite  33  
 b. \_\_\_\_\_ Lbs/gal mud weight..... Bentonite-sand slurry  35  
 c. \_\_\_\_\_ Lbs/gal mud weight..... Bentonite-cement grout  31  
 d. \_\_\_\_\_ % Bentonite..... Bentonite-cement grout  50  
 e. \_\_\_\_\_ Ft<sup>3</sup> volume added for any of the above  
 f. How installed: Tremie  01  
 Tremie pumped  02  
 Gravity  08

6. Bentonite seal: a. Granular Bentonite  33  
 b.  1/4 in.  3/8 in.  1/2 in. bentonite pellets  32  
 c. NA Other

7. Fine sand Material: Manufacturer, product name and mesh size  
 a. Red Flint No. 15  
 b. Volume added \_\_\_\_\_ ft<sup>3</sup>

8. Filter pack material: Manufacturer, product name and mesh size  
 a. Red Flint No. 40  
 b. Volume added \_\_\_\_\_ ft<sup>3</sup>

9. Well casing: Flush threaded PVC schedule 40  23  
 Flush threaded PVC schedule 80  24  
 Other

10. Screen material: PVC  
 a. Screen type: Factory cut  11  
 Continuous slot  01  
 Other   
 b. Manufacturer Monoflex  
 c. Slot size: 0.010 in.  
 d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None  14  
 Other

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

Signature A.M. Firm **ARCADIS**  
 126 N. Jefferson Street  
 Milwaukee, WI (414) 276-7742

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 293, 295, and 299, Wis. Stats. and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.  
 cont/prop/wi1054/decorah/graphics/mp2.ai

Facility/Project Name <b>Decorah Shopping Center Annex</b>	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name <b>MP-3</b>
Facility License, Permit or Monitoring Number	Local Grid Origin Lat. _____ Long _____ or St. Plane _____ ft. N, _____ ft. E	Wis. Unique Well Number _____ DNR Well Number _____
Type of Well Water Table Observation Well <input type="checkbox"/> 11 Injection <input type="checkbox"/> 12	Section Location of Waste/Source _____ 1/4 of _____ 1/4 of Sec _____ T. _____ N,R _____ <input type="checkbox"/> E. <input type="checkbox"/> W.	Date Well Installed <b>01/26/05</b>
Distance Well Is From Waste/Source Boundary _____ ft.	Location of Well Relative to Waste/Source <input type="checkbox"/> Upgradient <input type="checkbox"/> Sidegradient <input checked="" type="checkbox"/> Downgradient <input type="checkbox"/> Not Known	Well Installed by: Name (first, last) and Firm <b>Giles Engineering Associates, Inc.</b>
Is Well A Point of Enforcement Std. Application? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

A. Protective pipe, top elevation NA ft. MSL  
 B. Well casing, top elevation NA ft. MSL  
 C. Land surface elevation NA ft. MSL  
 D. Surface seal, bottom \_\_\_\_\_ ft MSL or 1.0 ft.

12. USCS classification of soil near screen:  
 GP  GM  GC  GW  SW  SP   
 SM  SC  ML  MH  CL  CH   
 Bedrock

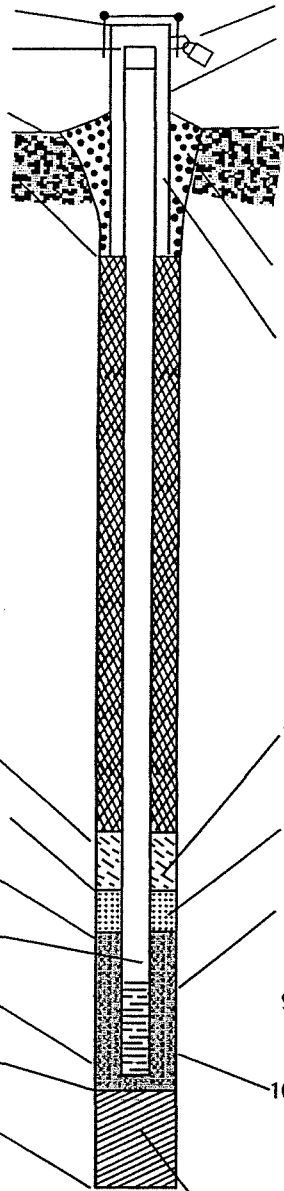
13. Sieve analysis attached?  Yes  No

14. Drilling method used: Rotary  50  
 Hollow Stem Auger  41  
Geoprobe Other

15. Drilling fluid used: Water  02 Air  01  
 Drilling Mud  03 None  99

16. Drilling additives used?  Yes  No  
 Describe \_\_\_\_\_

17. Source of Water (attached analysis if required):  
 \_\_\_\_\_



1. Cap and lock? (Cap no lock)  Yes  No

2. Protective cover pipe:  
 a. Inside diameter: 8.0 in.  
 b. Length: 1.0 ft.  
 c. Material: Steel  04  
 Other

d. Additional protection?  Yes  No  
 If yes, describe: \_\_\_\_\_

3. Surface seal: Bentonite  30  
 Concrete  01  
 Other

4. Material between well casing and protective pipe:  
 Bentonite  30  
 Annular space seal   
None Other

5. Annular space seal: a. Granular Bentonite  33  
 b. \_\_\_\_\_ Lbs/gal mud weight..... Bentonite-sand slurry  35  
 c. \_\_\_\_\_ Lbs/gal mud weight..... Bentonite-cement grout  31  
 d. \_\_\_\_\_ % Bentonite..... Bentonite-cement grout  50  
 e. \_\_\_\_\_ Ft<sup>3</sup> volume added for any of the above  
 f. How installed: Tremie  01  
 Tremie pumped  02  
 Gravity  08

6. Bentonite seal: a. Granular Bentonite  33  
 b.  1/4 in.  3/8 in.  1/2 in. bentonite pellets  32  
 c. NA Other

7. Fine sand Material: Manufacturer, product name and mesh size  
 a. Red Flint No. 15  
 b. Volume added \_\_\_\_\_ ft<sup>3</sup>

8. Filter pack material: Manufacturer, product name and mesh size  
 a. Red Flint No. 40  
 b. Volume added \_\_\_\_\_ ft<sup>3</sup>

9. Well casing: Flush threaded PVC schedule 40  23  
 Flush threaded PVC schedule 80  24  
 Other

10. Screen material: PVC  
 a. Screen type: Factory cut  11  
 Continuous slot  01  
 Other   
 b. Manufacturer Monoflex  
 c. Slot size: 0.010 in.  
 d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None  14  
 Other

E. Bentonite seal, top \_\_\_\_\_ ft. MSL or NA ft.  
 F. Fine sand, top \_\_\_\_\_ ft. MSL or 6.0 ft.  
 G. Filter pack, top \_\_\_\_\_ ft. MSL or 7.0 ft.  
 H. Screen joint, top \_\_\_\_\_ ft. MSL or 7.0 ft.  
 I. Well bottom \_\_\_\_\_ ft. MSL or 12.0 ft.  
 J. Filter pack, bottom \_\_\_\_\_ ft. MSL or 12.0 ft.  
 K. Borehole bottom \_\_\_\_\_ ft. MSL or 12.0 ft.  
 L. Borehole diameter 2.00 in.  
 M. O.D. well casing 1.37 in.  
 N. I.D. well casing 1.06 in.

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

Signature AM Firm **ARCADIS**  
 126 N. Jefferson Street  
 Milwaukee, WI (414) 276-7742

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

Facility/Project Name <b>Decorah Shopping Center Annex</b>	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name <b>MP-4</b>
Facility License, Permit or Monitoring Number	Local Grid Origin Lat. _____ Long _____ or St. Plane _____ ft. N, _____ ft. E	Wis. Unique Well Number _____ DNR Well Number _____
Type of Well Water Table Observation Well <input type="checkbox"/> 11 Injection <input type="checkbox"/> 12	Section Location of Waste/Source _____ 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R _____ <input type="checkbox"/> E. <input type="checkbox"/> W.	Date Well Installed <b>01/26/05</b>
Distance Well Is From Waste/Source Boundary _____ ft.	Location of Well Relative to Waste/Source <input type="checkbox"/> Upgradient <input type="checkbox"/> Sidegradient <input checked="" type="checkbox"/> Downgradient <input type="checkbox"/> Not Known	Well Installed by: Name (first, last) and Firm <b>Giles Engineering Associates, Inc.</b>
Is Well A Point of Enforcement Std. Application? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

A. Protective pipe, top elevation NA ft. MSL  
 B. Well casing, top elevation NA ft. MSL  
 C. Land surface elevation NA ft. MSL  
 D. Surface seal, bottom \_\_\_\_\_ ft MSL or 1.0 ft.

12. USCS classification of soil near screen:  
 GP  GM  GC  GW  SW  SP   
 SM  SC  ML  MH  CL  CH   
 Bedrock

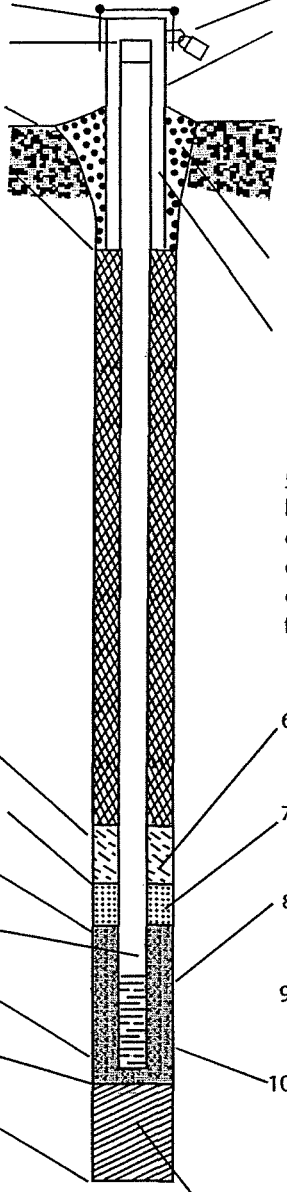
13. Sieve analysis attached?  Yes  No

14. Drilling method used: Rotary  50  
 Hollow Stem Auger  41  
Geoprobe Other

15. Drilling fluid used: Water  02 Air  01  
 Drilling Mud  03 None  99

16. Drilling additives used?  Yes  No  
 Describe \_\_\_\_\_

17. Source of Water (attached analysis if required):  
 \_\_\_\_\_



1. Cap and lock? (Cap no lock)  Yes  No

2. Protective cover pipe:  
 a. Inside diameter: 8.0 in.  
 b. Length: 1.0 ft.  
 c. Material: Steel  04  
 Other   
 d. Additional protection?  Yes  No  
 If yes, describe: \_\_\_\_\_

3. Surface seal: Bentonite  30  
 Concrete  01  
 Other

4. Material between well casing and protective pipe:  
 Bentonite  30  
None Annular space seal   
 Other

5. Annular space seal: a. Granular Bentonite  33  
 b. \_\_\_\_\_ Lbs/gal mud weight..... Bentonite-sand slurry  35  
 c. \_\_\_\_\_ Lbs/gal mud weight..... Bentonite-cement grout  31  
 d. \_\_\_\_\_ % Bentonite..... Bentonite-cement grout  50  
 e. \_\_\_\_\_ Ft<sup>3</sup> volume added for any of the above  
 f. How installed: Tremie  01  
 Tremie pumped  02  
 Gravity  08

6. Bentonite seal: a. Granular Bentonite  33  
 b.  1/4 in.  3/8 in.  1/2 in. bentonite pellets  32  
 c. NA Other

7. Fine sand Material: Manufacturer, product name and mesh size  
 a. Red Flint No. 15  
 b. Volume added \_\_\_\_\_ ft<sup>3</sup>

8. Filter pack material: Manufacturer, product name and mesh size  
 a. Red Flint No. 40  
 b. Volume added \_\_\_\_\_ ft<sup>3</sup>

9. Well casing: Flush threaded PVC schedule 40  23  
 Flush threaded PVC schedule 80  24  
 Other

10. Screen material: PVC  
 a. Screen type: Factory cut  11  
 Continuous slot  01  
 Other   
 b. Manufacturer Monoflex  
 c. Slot size: 0.010 in.  
 d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None  14  
 Other

E. Bentonite seal, top \_\_\_\_\_ ft. MSL or NA ft.  
 F. Fine sand, top \_\_\_\_\_ ft. MSL or 6.0 ft.  
 G. Filter pack, top \_\_\_\_\_ ft. MSL or 7.0 ft.  
 H. Screen joint, top \_\_\_\_\_ ft. MSL or 7.0 ft.  
 I. Well bottom \_\_\_\_\_ ft. MSL or 12.0 ft.  
 J. Filter pack, bottom \_\_\_\_\_ ft. MSL or 12.0 ft.  
 K. Borehole bottom \_\_\_\_\_ ft. MSL or 12.0 ft.  
 L. Borehole diameter 2.00 in.  
 M. O.D. well casing 1.37 in.  
 N. I.D. well casing 1.06 in.

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

Signature AM Firm **ARCADIS**  
 126 N. Jefferson Street  
 Milwaukee, WI (414) 276-7742

Facility/Project Name <b>Decorah Shopping Center Annex</b>		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name <b>MP-5</b>	
Facility License, Permit or Monitoring Number		Local Grid Origin Lat. _____ Long _____ or St. Plane _____ ft. N. _____ ft. E.		Wis. Unique Well Number _____ DNR Well Number _____	
Type of Well Water Table Observation Well <input type="checkbox"/> 11 Injection <input type="checkbox"/> 12		Section Location of Waste/Source _____ 1/4 of _____ 1/4 of Sec _____ T. _____ N, R _____ <input type="checkbox"/> E. <input type="checkbox"/> W.		Date Well Installed <b>01/26/05</b>	
Distance Well Is From Waste/Source Boundary _____ ft.		Location of Well Relative to Waste/Source <input type="checkbox"/> Upgradient <input type="checkbox"/> Sidegradient <input checked="" type="checkbox"/> Downgradient <input type="checkbox"/> Not Known		Well Installed by: Name (first, last) and Firm <b>Giles Engineering Associates, Inc.</b>	
Is Well A Point of Enforcement Std. Application? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					

A. Protective pipe, top elevation NA ft. MSL  
 B. Well casing, top elevation NA ft. MSL  
 C. Land surface elevation NA ft. MSL  
 D. Surface seal, bottom \_\_\_\_\_ ft. MSL or 1.0 ft.

12. USCS classification of soil near screen:  
 GP  GM  GC  GW  SW  SP   
 SM  SC  ML  MH  CL  CH   
 Bedrock

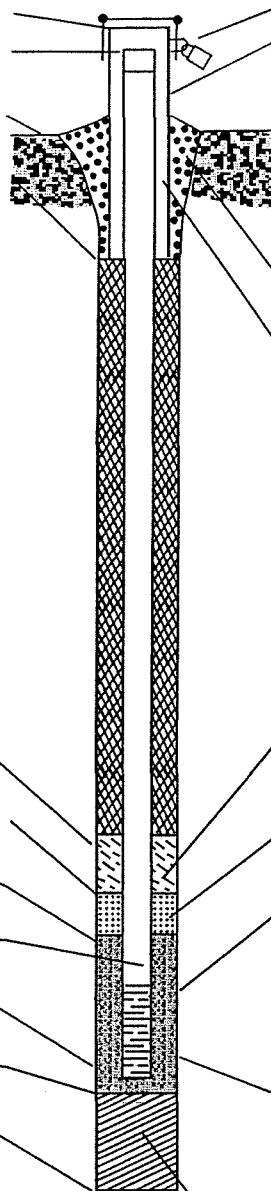
13. Sieve analysis attached?  Yes  No

14. Drilling method used: Rotary  50  
 Geoprobe Hollow Stem Auger  41  
 Other

15. Drilling fluid used: Water  02 Air  01  
 Drilling Mud  03 None  99

16. Drilling additives used?  Yes  No  
 Describe \_\_\_\_\_

17. Source of Water (attached analysis if required):  
 \_\_\_\_\_



1. Cap and lock? (Cap no lock)  Yes  No

2. Protective cover pipe:  
 a. Inside diameter: 8.0 in.  
 b. Length: 1.0 ft.  
 c. Material: Steel  04  
 Other

d. Additional protection?  Yes  No  
 If yes, describe: \_\_\_\_\_

3. Surface seal: Bentonite  30  
 Concrete  01  
 Other

4. Material between well casing and protective pipe:  
 Bentonite  30  
 Annular space seal   
 Other  None

5. Annular space seal: a. Granular Bentonite  33  
 b. \_\_\_\_\_ Lbs/gal mud weight..... Bentonite-sand slurry  35  
 c. \_\_\_\_\_ Lbs/gal mud weight..... Bentonite-cement grout  31  
 d. \_\_\_\_\_ % Bentonite..... Bentonite-cement grout  50  
 e. \_\_\_\_\_ Ft<sup>3</sup> volume added for any of the above  
 f. How installed: Tremie  01  
 Tremie pumped  02  
 Gravity  08

6. Bentonite seal: a. Granular Bentonite  33  
 b.  1/4 in.  3/8 in.  1/2 in. bentonite pellets  32  
 c. NA Other

7. Fine sand Material: Manufacturer, product name and mesh size  
 a. Red Flint No. 15  
 b. Volume added \_\_\_\_\_ ft<sup>3</sup>

8. Filter pack material: Manufacturer, product name and mesh size  
 a. Red Flint No. 40  
 b. Volume added \_\_\_\_\_ ft<sup>3</sup>

9. Well casing: Flush threaded PVC schedule 40  23  
 Flush threaded PVC schedule 80  24  
 Other

10. Screen material: PVC  
 a. Screen type: Factory cut  11  
 Continuous slot  01  
 Other   
 b. Manufacturer Monoflex  
 c. Slot size: 0.010 in.  
 d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None  14  
 Other

E. Bentonite seal, top \_\_\_\_\_ ft. MSL or NA ft.  
 F. Fine sand, top \_\_\_\_\_ ft. MSL or 6.0 ft.  
 G. Filter pack, top \_\_\_\_\_ ft. MSL or 7.0 ft.  
 H. Screen joint, top \_\_\_\_\_ ft. MSL or 7.0 ft.  
 I. Well bottom \_\_\_\_\_ ft. MSL or 12.0 ft.  
 J. Filter pack, bottom \_\_\_\_\_ ft. MSL or 12.0 ft.  
 K. Borehole bottom \_\_\_\_\_ ft. MSL or 12.0 ft.  
 L. Borehole diameter 2.00 in.  
 M. O.D. well casing 1.37 in.  
 N. I.D. well casing 1.06 in.

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

Signature AM Firm **ARCADIS**  
 126 N. Jefferson Street  
 Milwaukee, WI (414) 276-7742

Facility/Project Name <b>Decorah Shopping Center Annex</b>		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name <b>MP-6</b>	
Facility License, Permit or Monitoring Number		Local Grid Origin Lat. _____ Long _____ or St. Plane _____ ft. N, _____ ft. E		Wis. Unique Well Number _____ DNR Well Number _____	
Type of Well Water Table Observation Well <input type="checkbox"/> 11 Injection <input type="checkbox"/> 12		Section Location of Waste/Source _____ 1/4 of _____ 1/4 of Sec. _____ T. _____ N,R _____ <input type="checkbox"/> E. <input type="checkbox"/> W.		Date Well Installed <b>01/27/05</b>	
Distance Well Is From Waste/Source Boundary _____ ft.		Location of Well Relative to Waste/Source <input type="checkbox"/> Upgradient <input type="checkbox"/> Sidegradient <input checked="" type="checkbox"/> Downgradient <input type="checkbox"/> Not Known		Well Installed by: Name (first, last) and Firm <b>Giles Engineering Associates, Inc.</b>	
Is Well A Point of Enforcement Std. Application? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					

A. Protective pipe, top elevation NA ft. MSL  
 B. Well casing, top elevation NA ft. MSL  
 C. Land surface elevation NA ft. MSL  
 D. Surface seal, bottom \_\_\_\_\_ ft. MSL or 1.0 ft.

12. USCS classification of soil near screen:  
 GP  GM  GC  GW  SW  SP   
 SM  SC  ML  MH  CL  CH   
 Bedrock

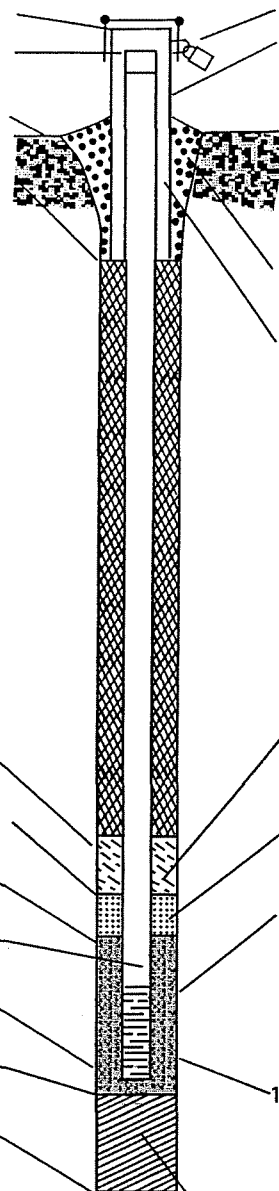
13. Sieve analysis attached?  Yes  No

14. Drilling method used: Rotary  50  
 Hollow Stem Auger  41  
Geoprobe Other

15. Drilling fluid used: Water  02 Air  01  
 Drilling Mud  03 None  99

16. Drilling additives used?  Yes  No  
 Describe \_\_\_\_\_

17. Source of Water (attached analysis if required):  
 \_\_\_\_\_



1. Cap and lock? (Cap no lock)  Yes  No

2. Protective cover pipe:  
 a. Inside diameter: 8.0 in.  
 b. Length: 1.0 ft.  
 c. Material: Steel  04  
 Other   
 d. Additional protection?  Yes  No  
 If yes, describe: \_\_\_\_\_

3. Surface seal: Bentonite  30  
 Concrete  01  
 Other

4. Material between well casing and protective pipe:  
 Bentonite  30  
 Annular space seal   
None Other

5. Annular space seal: a. Granular Bentonite  33  
 b. \_\_\_\_\_ Lbs/gal mud weight..... Bentonite-sand slurry  35  
 c. \_\_\_\_\_ Lbs/gal mud weight..... Bentonite-cement grout  31  
 d. \_\_\_\_\_ % Bentonite..... Bentonite-cement grout  50  
 e. \_\_\_\_\_ Ft<sup>3</sup> volume added for any of the above

f. How installed: Tremie  01  
 Tremie pumped  02  
 Gravity  08

6. Bentonite seal: a. Granular Bentonite  33  
 b.  1/4 in.  3/8 in.  1/2 in. bentonite pellets  32  
 c. NA Other

7. Fine sand Material: Manufacturer, product name and mesh size  
 a. Red Flint No. 15  
 b. Volume added \_\_\_\_\_ ft<sup>3</sup>

8. Filter pack material: Manufacturer, product name and mesh size  
 a. Red Flint No. 40  
 b. Volume added \_\_\_\_\_ ft<sup>3</sup>

9. Well casing: Flush threaded PVC schedule 40  23  
 Flush threaded PVC schedule 80  24  
 Other

10. Screen material: PVC  
 a. Screen type: Factory cut  11  
 Continuous slot  01  
 Other   
 b. Manufacturer Monoflex  
 c. Slot size: 0.010 in.  
 d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None  14  
 Other

E. Bentonite seal, top \_\_\_\_\_ ft. MSL or NA ft.  
 F. Fine sand, top \_\_\_\_\_ ft. MSL or 7.0 ft.  
 G. Filter pack, top \_\_\_\_\_ ft. MSL or 8.0 ft.  
 H. Screen joint, top \_\_\_\_\_ ft. MSL or 8.0 ft.  
 I. Well bottom \_\_\_\_\_ ft. MSL or 13.0 ft.  
 J. Filter pack, bottom \_\_\_\_\_ ft. MSL or 13.0 ft.  
 K. Borehole bottom \_\_\_\_\_ ft. MSL or 13.0 ft.  
 L. Borehole diameter 2.00 in.  
 M. O.D. well casing 1.37 in.  
 N. I.D. well casing 1.06 in.

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

Signature AM Firm **ARCADIS**  
 126 N. Jefferson Street  
 Milwaukee, WI (414) 276-7742

Facility/Project Name <b>Decorah Shopping Center Annex</b>	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name <b>MP-7</b>
Facility License, Permit or Monitoring Number	Local Grid Origin Lat. _____ Long _____ or St. Plane _____ ft. N, _____ ft. E	Wis. Unique Well Number _____ DNR Well Number _____
Type of Well Water Table Observation Well <input type="checkbox"/> 11 Injection <input type="checkbox"/> 12	Section Location of Waste/Source _____ 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R _____ <input type="checkbox"/> E. <input type="checkbox"/> W.	Date Well Installed <b>01/27/05</b>
Distance Well Is From Waste/Source Boundary _____ ft.	Location of Well Relative to Waste/Source <input type="checkbox"/> Upgradient <input type="checkbox"/> Sidegradient <input checked="" type="checkbox"/> Downgradient <input type="checkbox"/> Not Known	Well Installed by: Name (first, last) and Firm <b>Giles Engineering Associates, Inc.</b>
Is Well A Point of Enforcement Std. Application? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

A. Protective pipe, top elevation NA ft. MSL  
 B. Well casing, top elevation NA ft. MSL  
 C. Land surface elevation NA ft. MSL  
 D. Surface seal, bottom \_\_\_\_\_ ft. MSL or 1.0 ft.

12. USCS classification of soil near screen:  
 GP  GM  GC  GW  SW  SP   
 SM  SC  ML  MH  CL  CH   
 Bedrock

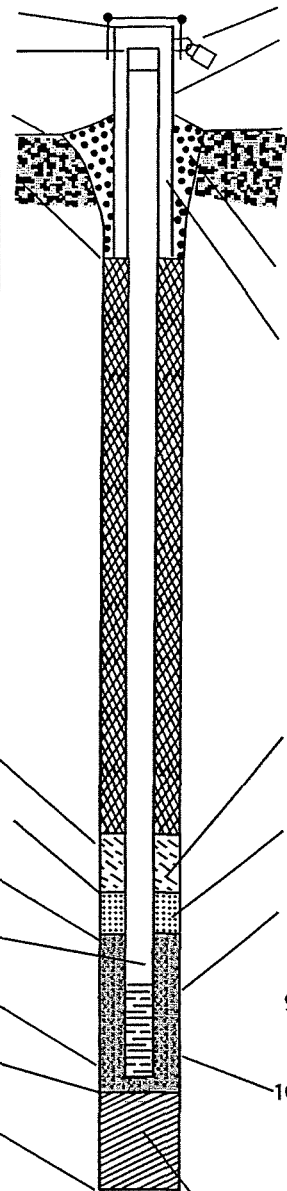
13. Sieve analysis attached?  Yes  No

14. Drilling method used: Rotary  50  
 Hollow Stem Auger  41  
Geoprobe Other

15. Drilling fluid used: Water  02 Air  01  
 Drilling Mud  03 None  99

16. Drilling additives used?  Yes  No  
 Describe \_\_\_\_\_

17. Source of Water (attached analysis if required):  
 \_\_\_\_\_



1. Cap and lock? (Cap no lock)  Yes  No

2. Protective cover pipe:  
 a. Inside diameter: 8.0 in.  
 b. Length: 1.0 ft.  
 c. Material: Steel  04  
 Other   
 d. Additional protection?  Yes  No  
 If yes, describe: \_\_\_\_\_

3. Surface seal: Bentonite  30  
 Concrete  01  
 Other

4. Material between well casing and protective pipe:  
 Bentonite  30  
 Annular space seal   
None Other

5. Annular space seal: a. Granular Bentonite  33  
 b. \_\_\_\_\_ Lbs/gal mud weight..... Bentonite-sand slurry  35  
 c. \_\_\_\_\_ Lbs/gal mud weight..... Bentonite-cement grout  31  
 d. \_\_\_\_\_ % Bentonite..... Bentonite-cement grout  50  
 e. \_\_\_\_\_ Ft<sup>3</sup> volume added for any of the above

6. Bentonite seal: a. Granular Bentonite  33  
 b.  1/4 in.  3/8 in.  1/2 in. bentonite pellets  32  
 c. NA Other

7. Fine sand Material: Manufacturer, product name and mesh size  
 a. Red Flint No. 15  
 b. Volume added \_\_\_\_\_ ft<sup>3</sup>

8. Filter pack material: Manufacturer, product name and mesh size  
 a. Red Flint No. 40  
 b. Volume added \_\_\_\_\_ ft<sup>3</sup>

9. Well casing: Flush threaded PVC schedule 40  23  
 Flush threaded PVC schedule 80  24  
 Other

10. Screen material: PVC  
 a. Screen type: Factory cut  11  
 Continuous slot  01  
 Other   
 b. Manufacturer Monoflex  
 c. Slot size: 0.010 in.  
 d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None  14  
 Other

E. Bentonite seal, top \_\_\_\_\_ ft. MSL or NA ft.  
 F. Fine sand, top \_\_\_\_\_ ft. MSL or 7.0 ft.  
 G. Filter pack, top \_\_\_\_\_ ft. MSL or 8.0 ft.  
 H. Screen joint, top \_\_\_\_\_ ft. MSL or 8.0 ft.  
 I. Well bottom \_\_\_\_\_ ft. MSL or 13.0 ft.  
 J. Filter pack, bottom \_\_\_\_\_ ft. MSL or 13.0 ft.  
 K. Borehole bottom \_\_\_\_\_ ft. MSL or 13.0 ft.  
 L. Borehole diameter 2.00 in.  
 M. O.D. well casing 1.37 in.  
 N. I.D. well casing 1.06 in.

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

Signature AM Firm **ARCADIS**  
 126 N. Jefferson Street  
 Milwaukee, WI (414) 276-7742

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 293, 295, and 299, Wis. Stats. and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.  
 cont/prop/wi1054/decorah/graphics/mp7.ai

Facility/Project Name <b>Decorah Shopping Center Annex</b>	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name <b>MP-8</b>	
Facility License, Permit or Monitoring Number	Local Grid Origin Lat. _____ Long _____ or St. Plane _____ ft. N, _____ ft. E	Wis. Unique Well Number	DNR Well Number
Type of Well Water Table Observation Well <input type="checkbox"/> 11 Injection <input type="checkbox"/> 12	Section Location of Waste/Source _____ 1/4 of _____ 1/4 of Sec. T. _____ N, R. _____ <input type="checkbox"/> E. _____ <input type="checkbox"/> W.	Date Well Installed <b>01/27/05</b>	
Distance Well Is From Waste/Source Boundary _____ ft.	Location of Well Relative to Waste/Source <input type="checkbox"/> Upgradient <input type="checkbox"/> Sidegradient <input checked="" type="checkbox"/> Downgradient <input type="checkbox"/> Not Known	Well Installed by: Name (first, last) and Firm <b>Giles Engineering Associates, Inc.</b>	
Is Well A Point of Enforcement Std. Application? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

A. Protective pipe, top elevation NA ft. MSL  
 B. Well casing, top elevation NA ft. MSL  
 C. Land surface elevation NA ft. MSL  
 D. Surface seal, bottom \_\_\_\_\_ ft MSL or 1.0 ft.

12. USCS classification of soil near screen:  
 GP  GM  GC  GW  SW  SP   
 SM  SC  ML  MH  CL  CH   
 Bedrock

13. Sieve analysis attached?  Yes  No

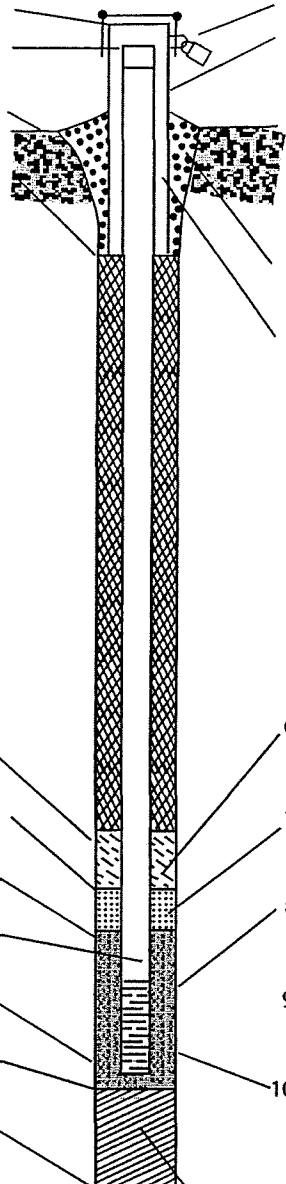
14. Drilling method used: Rotary  50  
 Hollow Stem Auger  41  
Geoprobe Other

15. Drilling fluid used: Water  02 Air  01  
 Drilling Mud  03 None  99

16. Drilling additives used?  Yes  No  
 Describe \_\_\_\_\_

17. Source of Water (attached analysis if required):  
 \_\_\_\_\_

E. Bentonite seal, top \_\_\_\_\_ ft. MSL or NA ft.  
 F. Fine sand, top \_\_\_\_\_ ft. MSL or 7.0 ft.  
 G. Filter pack, top \_\_\_\_\_ ft. MSL or 8.0 ft.  
 H. Screen joint, top \_\_\_\_\_ ft. MSL or 8.0 ft.  
 I. Well bottom \_\_\_\_\_ ft. MSL or 13.0 ft.  
 J. Filter pack, bottom \_\_\_\_\_ ft. MSL or 13.0 ft.  
 K. Borehole bottom \_\_\_\_\_ ft. MSL or 13.0 ft.  
 L. Borehole diameter 2.00 in.  
 M. O.D. well casing 1.37 in.  
 N. I.D. well casing 1.06 in.



1. Cap and lock? (Cap no lock)  Yes  No  
 2. Protective cover pipe:  
 a. Inside diameter: 8.0 in.  
 b. Length: 1.0 ft.  
 c. Material: Steel  04  
 Other   
 d. Additional protection?  Yes  No  
 If yes, describe: \_\_\_\_\_

3. Surface seal: Bentonite  30  
 Concrete  01  
 Other

4. Material between well casing and protective pipe:  
 Bentonite  30  
 Annular space seal   
None Other

5. Annular space seal:  
 a. Granular Bentonite  33  
 b. \_\_\_\_\_ Lbs/gal mud weight..... Bentonite-sand slurry  35  
 c. \_\_\_\_\_ Lbs/gal mud weight..Bentonite-cement grout  31  
 d. \_\_\_\_\_ % Bentonite..... Bentonite-cement grout  50  
 e. \_\_\_\_\_ Ft<sup>3</sup> volume added for any of the above

f. How installed: Tremie  01  
 Tremie pumped  02  
 Gravity  08

6. Bentonite seal:  
 a. Granular Bentonite  33  
 b.  1/4 in.  3/8 in.  1/2 in. bentonite pellets  32  
 c. NA Other

7. Fine sand Material: Manufacturer, product name and mesh size  
 a. Red Flint No. 15  
 b. Volume added \_\_\_\_\_ ft<sup>3</sup>

8. Filter pack material: Manufacturer, product name and mesh size  
 a. Red Flint No. 40  
 b. Volume added \_\_\_\_\_ ft<sup>3</sup>

9. Well casing: Flush threaded PVC schedule 40  23  
 Flush threaded PVC schedule 80  24  
 Other

10. Screen material: PVC  
 a. Screen type: Factory cut  11  
 Continuous slot  01  
 Other   
 b. Manufacturer Monoflex  
 c. Slot size: 0.010 in.  
 d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None  14  
 Other

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

Signature AM Firm **ARCADIS**  
 126 N. Jefferson Street  
 Milwaukee, WI (414) 276-7742

Facility/Project Name <b>Decorah Shopping Center Annex</b>		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name <b>MP-9</b>	
Facility License, Permit or Monitoring Number		Local Grid Origin Lat. _____ Long _____ or St. Plane _____ ft. N, _____ ft. E		Wis. Unique Well Number _____ DNR Well Number _____	
Type of Well Water Table Observation Well <input type="checkbox"/> 11 Injection <input type="checkbox"/> 12		Section Location of Waste/Source _____ 1/4 of _____ 1/4 of Sec _____ T. _____ N,R _____ <input type="checkbox"/> E. <input type="checkbox"/> W.		Date Well Installed <b>01/27/05</b>	
Distance Well Is From Waste/Source Boundary _____ ft.		Location of Well Relative to Waste/Source <input type="checkbox"/> Upgradient <input type="checkbox"/> Sidegradient <input checked="" type="checkbox"/> Downgradient <input type="checkbox"/> Not Known		Well Installed by: Name (first, last) and Firm <b>Giles Engineering Associates, Inc.</b>	
Is Well A Point of Enforcement Std. Application? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					

A. Protective pipe, top elevation NA ft. MSL  
 B. Well casing, top elevation NA ft. MSL  
 C. Land surface elevation NA ft. MSL  
 D. Surface seal, bottom \_\_\_\_\_ ft MSL or 1.0 ft.

12. USCS classification of soil near screen:  
 GP  GM  GC  GW  SW  SP   
 SM  SC  ML  MH  CL  CH   
 Bedrock

13. Sieve analysis attached?  Yes  No

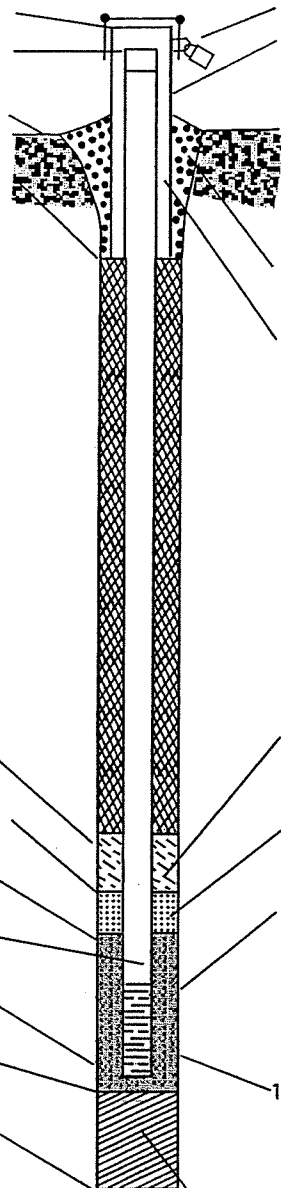
14. Drilling method used: Rotary  50  
 Hollow Stem Auger  41  
Geoprobe Other

15. Drilling fluid used: Water  02 Air  01  
 Drilling Mud  03 None  99

16. Drilling additives used?  Yes  No  
 Describe \_\_\_\_\_

17. Source of Water (attached analysis if required):  
 \_\_\_\_\_

E. Bentonite seal, top \_\_\_\_\_ ft. MSL or NA ft.  
 F. Fine sand, top \_\_\_\_\_ ft. MSL or 7.0 ft.  
 G. Filter pack, top \_\_\_\_\_ ft. MSL or 8.0 ft.  
 H. Screen joint, top \_\_\_\_\_ ft. MSL or 8.0 ft.  
 I. Well bottom \_\_\_\_\_ ft. MSL or 13.0 ft.  
 J. Filter pack, bottom \_\_\_\_\_ ft. MSL or 13.0 ft.  
 K. Borehole bottom \_\_\_\_\_ ft. MSL or 13.0 ft.  
 L. Borehole diameter 2.00 in.  
 M. O.D. well casing 1.37 in.  
 N. I.D. well casing 1.06 in.



1. Cap and lock? (Cap no lock)  Yes  No

2. Protective cover pipe:  
 a. Inside diameter: 8.0 in.  
 b. Length: 1.0 ft.  
 c. Material: Steel  04  
 Other   
 d. Additional protection?  Yes  No  
 If yes, describe: \_\_\_\_\_

3. Surface seal: Bentonite  30  
 Concrete  01  
 Other

4. Material between well casing and protective pipe:  
 Bentonite  30  
 Annular space seal   
 Other  None

5. Annular space seal:  
 a. Granular Bentonite  33  
 b. \_\_\_\_\_ Lbs/gal mud weight.... Bentonite-sand slurry  35  
 c. \_\_\_\_\_ Lbs/gal mud weight..Bentonite-cement grout  31  
 d. \_\_\_\_\_ % Bentonite..... Bentonite-cement grout  50  
 e. \_\_\_\_\_ Ft<sup>3</sup> volume added for any of the above

f. How installed: Tremie  01  
 Tremie pumped  02  
 Gravity  08

6. Bentonite seal:  
 a. Granular Bentonite  33  
 b.  1/4 in.  3/8 in.  1/2 in. bentonite pellets  32  
 c. NA Other

7. Fine sand Material: Manufacturer, product name and mesh size  
 a. Red Flint No. 15  
 b. Volume added \_\_\_\_\_ ft<sup>3</sup>

8. Filter pack material: Manufacturer, product name and mesh size  
 a. Red Flint No. 40  
 b. Volume added \_\_\_\_\_ ft<sup>3</sup>

9. Well casing: Flush threaded PVC schedule 40  23  
 Flush threaded PVC schedule 80  24  
 Other

10. Screen material: PVC  
 a. Screen type: Factory cut  11  
 Continuous slot  01  
 Other   
 b. Manufacturer Monoflex  
 c. Slot size: 0.010 in.  
 d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None  14  
 Other

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

Signature AM Firm **ARCADIS**  
 126 N. Jefferson Street  
 Milwaukee, WI (414) 276-7742



This information is collected under the authority of the Safe Drinking Water Act.

**Notice:** Code of Federal Regulations (40 CFR 144.26 Inventory Requirements): owners or operators of all injection wells authorized by rule shall submit inventory information to an approved State Underground Injection Control Program. Personal information collected on this form will be used for inventory purposes. Information will be made accessible to requesters under Wisconsin's Open Records laws (s. 19.32 to 19.39, Wis. Stats.) and requirements.

Date Prepared (Year, Month, Day) 4/25/05	Facility ID Number 267161400	Transaction Type (Please check one of the following) <input type="checkbox"/> Deletion <input type="checkbox"/> Entry Change <input checked="" type="checkbox"/> First Time Entry <input type="checkbox"/> Replacement
---	---------------------------------	---

<b>Facility Name and Location</b>									
Last Name Decorah Shopping Center Annex		First	MI	Latitude: DEG MIN SEC N	Longitude: DEG MIN SEC W				
Street Address / Route Number 1011-1025 S. Main St.				Township 11 N	Range 19 E	Section 24	¼ Section NW ¼		
City / Town West Bend		State WI	ZIP Code	County Washington		Tribal Land <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

<b>Legal Contact</b>									
Type <input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator	Last Name Mokwa		First Mary	MI L	Telephone Number (incl. area code) 262-532-9329				
Organization Continental VI Fund L.P.				Ownership <input checked="" type="checkbox"/> Private <input type="checkbox"/> County / Local Government <input type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Specify Other _____					
Street / P.O. Box W134 N8675 Executive Parkway									
City / Town Menomonee Falls		State WI	ZIP Code 53052						

WELL CLASS	WELL TYPE	TOTAL NUMBER OF WELLS	WELL OPERATION STATUS					KEY:
			UC	AC	TA	PA	AN	
IW	1" PVC	4		✓				DEG = Degree MIN = Minute SEC = Seconds SECT = Section ¼ SECT = Quarter Section AC = Active UC = Under Construction PA = Permanently Abandoned and Approved by State AN = Permanently Abandoned and Not Approved by State TA = Temporarily Abandoned and Not Approved by State

Comments (Optional):



1241 Bellevue Street, Suite 9  
Green Bay, WI 54302  
920-469-2436, Fax: 920-469-8827

A Division of Pace Analytical Services, Inc.

### Analytical Report Number: 855902

Client: ARCADIS G & M - MILW

Lab Contact: Laurie Woelfel

Project Name: DECORAH

Project Number: WI001054.0001

Lab Sample Number	Field ID	Matrix	Collection Date
855902-001	MP-1	WATER	02/01/05
855902-002	MP-2	WATER	02/01/05
855902-003	MP-3	WATER	02/01/05
855902-004	MP-4	WATER	02/01/05
855902-005	MP-5	WATER	02/01/05
855902-006	MP-6	WATER	02/01/05
855902-007	MP-7	WATER	02/01/05
855902-008	MP-8	WATER	02/02/05
855902-009	MP-9	WATER	02/02/05
855902-010	MW-13	WATER	02/02/05
855902-011	TRIP BLANK	WATER	02/02/05

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.

Laurie Woelfel  
Approval Signature

2/26/05  
Date

# En Chem

A Division of Pace Analytical Services, Inc.

## Analytical Report Number: 855902

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : MP-1

Matrix Type : WATER

Collection Date : 02/01/05

Report Date : 02/16/05

Lab Sample Number : 855902-001

### VOLATILES

Prep Date: 02/08/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Dibromomethane	< 0.60	0.60	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 0.76	0.76	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 0.67	0.67	2.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 0.59	0.59	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 0.43	0.43	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 0.93	0.93	3.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
n-Propylbenzene	< 0.81	0.81	2.7		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 0.67	0.67	2.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 0.89	0.89	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Styrene	< 0.86	0.86	2.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Tetrachloroethene	110	0.45	1.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	83				1	%Recov		02/08/05	SW846 5030B	SW846 8260B
Toluene-d8	88				1	%Recov		02/08/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	94				1	%Recov		02/08/05	SW846 5030B	SW846 8260B

# En Chem

A Division of Pace Analytical Services, Inc.

## Analytical Report Number: 855902

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : MP-2

Matrix Type : WATER

Collection Date : 02/01/05

Report Date : 02/16/05

Lab Sample Number : 855902-002

### VOLATILES

Prep Date: 02/08/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Dibromomethane	< 0.60	0.60	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 0.76	0.76	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 0.67	0.67	2.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 0.59	0.59	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 0.43	0.43	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 0.93	0.93	3.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
n-Propylbenzene	< 0.81	0.81	2.7		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 0.67	0.67	2.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 0.89	0.89	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Styrene	< 0.86	0.86	2.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Tetrachloroethene	9.7	0.45	1.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	85				1	%Recov		02/08/05	SW846 5030B	SW846 8260B
Toluene-d8	89				1	%Recov		02/08/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	96				1	%Recov		02/08/05	SW846 5030B	SW846 8260B

# En Chem

## Analytical Report Number: 855902

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : MP-3

Matrix Type : WATER

Collection Date : 02/01/05

Report Date : 02/16/05

Lab Sample Number : 855902-003

### VOLATILES

Prep Date: 02/08/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Dibromomethane	< 0.60	0.60	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 0.76	0.76	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 0.67	0.67	2.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 0.59	0.59	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 0.43	0.43	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 0.93	0.93	3.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
n-Propylbenzene	< 0.81	0.81	2.7		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 0.67	0.67	2.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 0.89	0.89	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Styrene	< 0.86	0.86	2.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Tetrachloroethene	4.3	0.45	1.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	84				1	%Recov		02/08/05	SW846 5030B	SW846 8260B
Toluene-d8	85				1	%Recov		02/08/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	94				1	%Recov		02/08/05	SW846 5030B	SW846 8260B

# En Chem

A Division of Pace Analytical Services, Inc.

## Analytical Report Number: 855902

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : MP-4

Matrix Type : WATER

Collection Date : 02/01/05

Report Date : 02/16/05

Lab Sample Number : 855902-004

### VOLATILES

Prep Date: 02/08/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Dibromomethane	< 0.60	0.60	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 0.76	0.76	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 0.67	0.67	2.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 0.59	0.59	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 0.43	0.43	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 0.93	0.93	3.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
n-Propylbenzene	< 0.81	0.81	2.7		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 0.67	0.67	2.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 0.89	0.89	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Styrene	< 0.86	0.86	2.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Tetrachloroethene	7.5	0.45	1.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	85				1	%Recov		02/08/05	SW846 5030B	SW846 8260B
Toluene-d8	87				1	%Recov		02/08/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	97				1	%Recov		02/08/05	SW846 5030B	SW846 8260B

# En Chem

## Analytical Report Number: 855902

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : MP-5

Matrix Type : WATER

Collection Date : 02/01/05

Report Date : 02/16/05

Lab Sample Number : 855902-005

### VOLATILES

Prep Date: 02/08/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Dibromomethane	< 0.60	0.60	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 0.76	0.76	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 0.67	0.67	2.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 0.59	0.59	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 0.43	0.43	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 0.93	0.93	3.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
n-Propylbenzene	< 0.81	0.81	2.7		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 0.67	0.67	2.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 0.89	0.89	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Styrene	< 0.86	0.86	2.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Tetrachloroethene	5.2	0.45	1.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	86				1	%Recov		02/08/05	SW846 5030B	SW846 8260B
Toluene-d8	88				1	%Recov		02/08/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	97				1	%Recov		02/08/05	SW846 5030B	SW846 8260B

# En Chem

## Analytical Report Number: 855902

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : MP-6

Matrix Type : WATER

Collection Date : 02/01/05

Report Date : 02/16/05

Lab Sample Number : 855902-006

### VOLATILES

Prep Date: 02/08/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Dibromomethane	< 0.60	0.60	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 0.76	0.76	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 0.67	0.67	2.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 0.59	0.59	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 0.43	0.43	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 0.93	0.93	3.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
n-Propylbenzene	< 0.81	0.81	2.7		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 0.67	0.67	2.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 0.89	0.89	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Styrene	< 0.86	0.86	2.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Tetrachloroethene	12	0.45	1.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	84				1	%Recov		02/08/05	SW846 5030B	SW846 8260B
Toluene-d8	87				1	%Recov		02/08/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	94				1	%Recov		02/08/05	SW846 5030B	SW846 8260B



# En Chem

## Analytical Report Number: 855902

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-7

Matrix Type : WATER  
Collection Date : 02/01/05  
Report Date : 02/16/05  
Lab Sample Number : 855902-007

### VOLATILES

Prep Date: 02/08/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Dibromomethane	< 0.60	0.60	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 0.76	0.76	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 0.67	0.67	2.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 0.59	0.59	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 0.43	0.43	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 0.93	0.93	3.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
n-Propylbenzene	< 0.81	0.81	2.7		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 0.67	0.67	2.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 0.89	0.89	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Styrene	< 0.86	0.86	2.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Tetrachloroethene	15	0.45	1.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	85				1	%Recov		02/08/05	SW846 5030B	SW846 8260B
Toluene-d8	90				1	%Recov		02/08/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	98				1	%Recov		02/08/05	SW846 5030B	SW846 8260B

# En Chem

## Analytical Report Number: 855902

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : MP-8

Matrix Type : WATER

Collection Date : 02/02/05

Report Date : 02/16/05

Lab Sample Number : 855902-008

### VOLATILES

Prep Date: 02/08/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Dibromomethane	< 0.60	0.60	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 0.76	0.76	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 0.67	0.67	2.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 0.59	0.59	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 0.43	0.43	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 0.93	0.93	3.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
n-Propylbenzene	< 0.81	0.81	2.7		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 0.67	0.67	2.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 0.89	0.89	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Styrene	< 0.86	0.86	2.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Tetrachloroethene	19	0.45	1.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	84				1	%Recov		02/08/05	SW846 5030B	SW846 8260B
Toluene-d8	90				1	%Recov		02/08/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	98				1	%Recov		02/08/05	SW846 5030B	SW846 8260B

# En Chem

## Analytical Report Number: 855902

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : MP-9

Matrix Type : WATER

Collection Date : 02/02/05

Report Date : 02/16/05

Lab Sample Number : 855902-009

### VOLATILES

Prep Date: 02/08/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Dibromomethane	< 0.60	0.60	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 0.76	0.76	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 0.67	0.67	2.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 0.59	0.59	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 0.43	0.43	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 0.93	0.93	3.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
n-Propylbenzene	< 0.81	0.81	2.7		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 0.67	0.67	2.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 0.89	0.89	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Styrene	< 0.86	0.86	2.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Tetrachloroethene	20	0.45	1.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	85				1	%Recov		02/08/05	SW846 5030B	SW846 8260B
Toluene-d8	92				1	%Recov		02/08/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	97				1	%Recov		02/08/05	SW846 5030B	SW846 8260B

# En Chem

## Analytical Report Number: 855902

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : MW-13

Matrix Type : WATER

Collection Date : 02/02/05

Report Date : 02/16/05

Lab Sample Number : 855902-010

### VOLATILES

Prep Date: 02/09/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
cis-1,2-Dichloroethene	< 8.3	8.3	28		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 1.9	1.9	6.3		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
Dibromomethane	< 6.0	6.0	20		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 9.9	9.9	33		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 7.6	7.6	25		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 5.4	5.4	18		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 7.9	7.9	26		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 6.7	6.7	22		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 5.9	5.9	20		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 4.3	4.3	14		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 6.1	6.1	20		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
Naphthalene	< 7.4	7.4	25		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 9.3	9.3	31		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
n-Propylbenzene	< 8.1	8.1	27		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 6.7	6.7	22		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 8.9	8.9	30		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
Styrene	< 8.6	8.6	29		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 9.7	9.7	32		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
Tetrachloroethene	600	4.5	15		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
Toluene	< 6.7	6.7	22		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 8.9	8.9	30		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 1.9	1.9	6.3		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
Trichloroethene	6.9	4.8	16		10	ug/L	Q	02/09/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 1.8	1.8	6.0		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
Xylene, o	< 8.3	8.3	28		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 18	18	60		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	84				10	%Recov		02/09/05	SW846 5030B	SW846 8260B
Toluene-d8	91				10	%Recov		02/09/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	96				10	%Recov		02/09/05	SW846 5030B	SW846 8260B

# En Chem

## Analytical Report Number: 855902

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : TRIP BLANK

Matrix Type : WATER

Collection Date : 02/02/05

Report Date : 02/16/05

Lab Sample Number : 855902-011

### VOLATILES

Prep Date: 02/08/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
p-Isopropyltoluene	< 0.67	0.67	2.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 0.89	0.89	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Styrene	< 0.86	0.86	2.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Tetrachloroethene	< 0.45	0.45	1.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	85				1	%Recov		02/08/05	SW846 5030B	SW846 8260B
Toluene-d8	92				1	%Recov		02/08/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	93				1	%Recov		02/08/05	SW846 5030B	SW846 8260B

# En Chem

A Division of Pace Analytical Services, Inc.

## Analysis Summary by Laboratory

1241 Bellevue Street  
Green Bay, WI 54302

1090 Kennedy Avenue  
Kimberly, WI 54136

Test Group Name	855902-001	855902-002	855902-003	855902-004	855902-005	855902-006	855902-007	855902-008	855902-009	855902-010	855902-011
ARSENIC - DISSOLVED	G	G	G	G	G	G	G	G	G	G	G
BARIUM - DISSOLVED	G	G	G	G	G	G	G	G	G	G	G
BROMIDE	C	C	C	C	C	C	C	C	C	C	C
CADMIUM - DISSOLVED	G	G	G	G	G	G	G	G	G	G	G
CHROMIUM - DISSOLVED	G	G	G	G	G	G	G	G	G	G	G
IRON - DISSOLVED	G	G	G	G	G	G	G	G	G	G	G
LEAD - DISSOLVED	G	G	G	G	G	G	G	G	G	G	G
MANGANESE - DISSOLVED	G	G	G	G	G	G	G	G	G	G	G
MERCURY - DISSOLVED	G	G	G	G	G	G	G	G	G	G	G
SELENIUM - DISSOLVED	G	G	G	G	G	G	G	G	G	G	G
SILVER - DISSOLVED	G	G	G	G	G	G	G	G	G	G	G
VOLATILES	G	G	G	G	G	G	G	G	G	G	G

### Wisconsin Certification

G = En Chem Green Bay	405132750 / DATCP: 105 000444
K = En Chem Kimberly	445134030
S = En Chem Superior	Not Applicable
C = Subcontracted Analysis	
I = Other Pace Lab Analysis	

Project Number/Name W1001054.0001 Decorah

Project Location West Bend, WI

Laboratory En Chem

Project Manager Jim Bennantine

Sampler(s)/Affiliation AM / ARCADIS

ANALYSIS / METHOD / SIZE  
 VOCs  
 USEPA method 8260  
 40 mL VOA  
 Dissolved HCl presave  
 Dissolved RPA metals  
 250 mL polyethylene  
 Total Bromide  
 method # 300 USEPA  
 250 mL poly vials  
 Trip Blank  
 Temp Blank

VRF

Sample ID/Location	Matrix	Date/Time Sampled	Time Lab ID	3	1	1			Remarks	Total
001 MP-1	L	2-1-05	9:35	3	1	1			2-250ml <sup>A</sup> , 3-40ml <sup>B</sup>	5
002 MP-2			10:30	3	1	1				5
003 MP-3			11:25	3	1	1				5
004 MP-4			12:20	3	1	1				5
005 MP-5			13:15	3	1	1				5
006 MP-6			14:50	3	1	1				5
007 MP-7		↓	15:45	3	1	1				5
008 MP-8		2-2-05	9:35	3	1	1				5
009 MP-9		↓	10:45	3	1	1				5
010 MW-13		↓	12:15	3	1	1			↓	5
011 Trip Blank		—	—	3			1		1-40ml	1
Temp Blank		—	—	3				1		1

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

Total No. of Bottles/Containers 52

Relinquished by: [Signature] Organization: ARCADIS Date: 2/3/05 Time: 700 Seal Intact? Yes  
 Received by: [Signature] Organization: En Chem Date: 2/3/05 Time: 1100 Yes No N/A

Relinquished by: [Signature] Organization: En Chem Date: 2/3/05 Time: 1250 Seal Intact? Yes  
 Received by: [Signature] Organization: En Chem Date: 2/3/05 Time: 1250 Yes (No) N/A

Special Instructions/Remarks: Rel'd by B. Kemper - En Chem 2/3/05 1500 Dawn Gabardi 2/3/05 1500  
Direct Questions/Comments to Dawn Gabardi w/ ARCADIS @ 414-276-7740

Delivery Method:  In Person  Common Carrier  Lab Courier  Other

855902



A Division of Pace Analytical Services, Inc.

1241 Bellevue Street, Suite 9  
Green Bay, WI 54302  
920-469-2436, Fax: 920-469-8827

### Analytical Report Number: 856629

Client: ARCADIS G & M - MILW

Lab Contact: Laurie Woelfel

Project Name: DECORAH

Project Number: WI001054.0001

Lab Sample Number	Field ID	Matrix	Collection Date
856629-001	MW-13A	WATER	02/24/05
856629-002	MW-13B	WATER	02/24/05
856629-003	FP-1	WATER	02/24/05
856629-004	MP-7	WATER	02/24/05
856629-005	MP-3	WATER	02/24/05
856629-006	MP-1	WATER	02/24/05
856629-007	DUP	WATER	02/24/05
856629-008	TRIP BLANK	WATER	02/24/05

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.

Approval Signature

3/4/05

Date



# En Chem

## Analytical Report Number: 856629

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : MW-13A

Matrix Type : WATER

Collection Date : 02/24/05

Report Date : 03/02/05

Lab Sample Number : 856629-001

### VOLATILES

Prep Date: 03/01/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
p-Isopropyltoluene	< 6.7	6.7	22		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 8.9	8.9	30		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Styrene	< 8.6	8.6	29		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 9.7	9.7	32		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Tetrachloroethene	690	4.5	15		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Toluene	< 6.7	6.7	22		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 8.9	8.9	30		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 1.9	1.9	6.3		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Trichloroethene	7.6	4.8	16		10	ug/L	Q	03/01/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 1.8	1.8	6.0		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Xylene, o	< 8.3	8.3	28		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 18	18	60		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	82				10	%Recov		03/01/05	SW846 5030B	SW846 8260B
Toluene-d8	90				10	%Recov		03/01/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	90				10	%Recov		03/01/05	SW846 5030B	SW846 8260B

# En Chem

## Analytical Report Number: 856629

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MW-13B

Matrix Type : WATER  
Collection Date : 02/24/05  
Report Date : 03/02/05  
Lab Sample Number : 856629-002

### VOLATILES

Prep Date: 03/01/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
p-Isopropyltoluene	< 6.7	6.7	22		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 8.9	8.9	30		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Styrene	< 8.6	8.6	29		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 9.7	9.7	32		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Tetrachloroethene	730	4.5	15		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Toluene	< 6.7	6.7	22		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 8.9	8.9	30		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 1.9	1.9	6.3		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Trichloroethene	8.0	4.8	16		10	ug/L	Q	03/01/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 1.8	1.8	6.0		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Xylene, o	< 8.3	8.3	28		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 18	18	60		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	82				10	%Recov		03/01/05	SW846 5030B	SW846 8260B
Toluene-d8	91				10	%Recov		03/01/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	89				10	%Recov		03/01/05	SW846 5030B	SW846 8260B

# En Chem

## Analytical Report Number: 856629

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : P-1

Matrix Type : WATER

Collection Date : 02/24/05

Report Date : 03/02/05

Lab Sample Number : 856629-003

### VOLATILES

Prep Date: 03/01/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
p-Isopropyltoluene	< 0.67	0.67	2.2		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 0.89	0.89	3.0		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
Styrene	< 0.86	0.86	2.9		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 0.97	0.97	3.2		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
Tetrachloroethene	11	0.45	1.5		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	82				1	%Recov		03/01/05	SW846 5030B	SW846 8260B
Toluene-d8	90				1	%Recov		03/01/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	90				1	%Recov		03/01/05	SW846 5030B	SW846 8260B

# En Chem

## Analytical Report Number: 856629

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : MP-7

Matrix Type : WATER

Collection Date : 02/24/05

Report Date : 03/02/05

Lab Sample Number : 856629-004

### VOLATILES

Prep Date: 02/28/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
p-Isopropyltoluene	< 0.67	0.67	2.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 0.89	0.89	3.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Styrene	< 0.86	0.86	2.9		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 0.97	0.97	3.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Tetrachloroethene	14	0.45	1.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	80				1	%Recov		02/28/05	SW846 5030B	SW846 8260B
Toluene-d8	92				1	%Recov		02/28/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	96				1	%Recov		02/28/05	SW846 5030B	SW846 8260B

# En Chem

## Analytical Report Number: 856629

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-3

Matrix Type : WATER  
Collection Date : 02/24/05  
Report Date : 03/02/05  
Lab Sample Number : 856629-005

### VOLATILES

Prep Date: 02/28/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
p-Isopropyltoluene	< 0.67	0.67	2.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 0.89	0.89	3.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Styrene	< 0.86	0.86	2.9		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 0.97	0.97	3.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Tetrachloroethene	4.9	0.45	1.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	81				1	%Recov		02/28/05	SW846 5030B	SW846 8260B
Toluene-d8	92				1	%Recov		02/28/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	96				1	%Recov		02/28/05	SW846 5030B	SW846 8260B

# En Chem

## Analytical Report Number: 856629

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : MP-1

Matrix Type : WATER

Collection Date : 02/24/05

Report Date : 03/02/05

Lab Sample Number : 856629-006

### VOLATILES

Prep Date: 02/28/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
p-Isopropyltoluene	< 0.67	0.67	2.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 0.89	0.89	3.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Styrene	< 0.86	0.86	2.9		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 0.97	0.97	3.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Tetrachloroethene	88	0.45	1.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	80				1	%Recov		02/28/05	SW846 5030B	SW846 8260B
Toluene-d8	91				1	%Recov		02/28/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	97				1	%Recov		02/28/05	SW846 5030B	SW846 8260B

# En Chem

## Analytical Report Number: 856629

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : W1001054.0001

Field ID : DUP (NW-13B)

Matrix Type : WATER

Collection Date : 02/24/05

Report Date : 03/02/05

Lab Sample Number : 856629-007

### VOLATILES

Prep Date: 03/01/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
p-Isopropyltoluene	< 6.7	6.7	22		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 8.9	8.9	30		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Styrene	< 8.6	8.6	29		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 9.7	9.7	32		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Tetrachloroethene	690	4.5	15		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Toluene	< 6.7	6.7	22		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 8.9	8.9	30		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 1.9	1.9	6.3		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Trichloroethene	8.3	4.8	16		10	ug/L	Q	03/01/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 1.8	1.8	6.0		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Xylene, o	< 8.3	8.3	28		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 18	18	60		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	82				10	%Recov		03/01/05	SW846 5030B	SW846 8260B
Toluene-d8	90				10	%Recov		03/01/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	87				10	%Recov		03/01/05	SW846 5030B	SW846 8260B

# En Chem

## Analytical Report Number: 856629

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : TRIP BLANK

Matrix Type : WATER

Collection Date : 02/24/05

Report Date : 03/02/05

Lab Sample Number : 856629-008

### VOLATILES

Prep Date: 02/28/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
p-Isopropyltoluene	< 0.67	0.67	2.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 0.89	0.89	3.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Styrene	< 0.86	0.86	2.9		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 0.97	0.97	3.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Tetrachloroethene	< 0.45	0.45	1.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	81				1	%Recov		02/28/05	SW846 5030B	SW846 8260B
Toluene-d8	91				1	%Recov		02/28/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	93				1	%Recov		02/28/05	SW846 5030B	SW846 8260B



# En Chem

A Division of Pace Analytical Services, Inc.

## Analysis Summary by Laboratory

1241 Bellevue Street  
Green Bay, WI 54302

1090 Kennedy Avenue  
Kimberly, WI 54136

Test Group Name	856629-001	856629-002	856629-003	856629-004	856629-005	856629-006	856629-007	856629-008
VOLATILES	G	G	G	G	G	G	G	G

### Wisconsin Certification

G = En Chem Green Bay	405132750 / DATCP: 105 000444
K = En Chem Kimberly	445134030
S = En Chem Superior	Not Applicable
C = Subcontracted Analysis	
I = Other Pace Lab Analysis	

Project Number/Name W1001091.0001/Deerwah  
 Project Location West Bend, WI  
 Laboratory En Chem  
 Project Manager Dawn Gabardi  
 Sampler(s)/Affiliation Lori Schmitt

*JBF*

Sample ID/Location	Matrix	Date/Time Sampled	T.M.P. Lab ID	ANALYSIS / METHOD / SIZE					Remarks	Total
				VOC	40mL glass vial	HCl				
001 MW-13A	L	2/24/05	1155	3					3-40ml <sup>B</sup>	3
002 MW-13B			1320	3						3
003 EP-1			1130	3						3
004 MP-7			1305	3						3
005 MP-3			1630	3						3
006 MP-1			1455	3						3
007 Dup			-	3					↓ (MW-13B)	3
008 Trip Blank	↓	↓	-	2					2-40ml TB <sup>B</sup>	2

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

Total No. of Bottles/Containers 23

Relinquished by: <u>Lori Schmitt</u>	Organization: <u>ARCADIS</u>	Date: <u>2/25/05</u>	Time: <u>0830</u>	Seal Intact?
Received by: <u>Rita Nottmeyer</u>	Organization: <u>Para/Enchem</u>	Date: <u>2/25/05</u>	Time: <u>1100</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
Relinquished by: <u>Rita Nottmeyer</u>	Organization: <u>Para/Enchem</u>	Date: <u>2/25/05</u>	Time: <u>1145</u>	Seal Intact?
Received by: <u>Spague</u>	Organization: <u>Enchem</u>	Date: <u>2/25/05</u>	Time: <u>1145</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A

Special Instructions/Remarks: Relinquished - Spague 2-25-05 1500 Ashley Bunkley 2/25/05 1500

Delivery Method:  In Person  Common Carrier  Lab Courier  Other \_\_\_\_\_

85101079

R01



1241 Bellevue Street, Suite 9  
Green Bay, WI 54302  
920-469-2436, Fax: 920-469-8827

### Analytical Report Number: 858286

Client: ARCADIS G & M - MILW

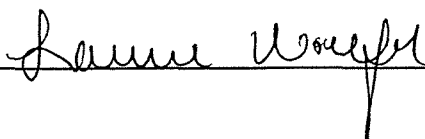
Lab Contact: Laurie Woelfel

Project Name: DECORAH

Project Number: WI001054.0001

Lab Sample Number	Field ID	Matrix	Collection Date
858286-001	MP-3	WATER	04/14/05
858286-002	MP-4	WATER	04/14/05
858286-003	MP-5	WATER	04/14/05
858286-004	MP-6	WATER	04/14/05
858286-005	MP-7	WATER	04/14/05
858286-006	MP-8	WATER	04/14/05
858286-007	MP-9	WATER	04/14/05

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.

Approval Signature 

Date 5/9/05

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 858286**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-4

Matrix Type : WATER  
Collection Date : 04/14/05  
Report Date : 05/09/05  
Lab Sample Number : 858286-002

---

**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	370			0.10	1	mg/L		04/25/05	EPA 300.0	EPA 300.0

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 858286**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-6

Matrix Type : WATER  
Collection Date : 04/14/05  
Report Date : 05/09/05  
Lab Sample Number : 858286-004

**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	1.4			0.10	1	mg/L		04/25/05	EPA 300.0	EPA 300.0

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 858286**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-8

Matrix Type : WATER  
Collection Date : 04/14/05  
Report Date : 05/09/05  
Lab Sample Number : 858286-006

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**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	0.36			0.10	1	mg/L		04/25/05	EPA 300.0	EPA 300.0

## Qualifier Codes

### Flag Applies To Explanation

Flag	Applies To	Explanation
A	Inorganic	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
B	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
B	Organic	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	All	Elevated detection limit.
D	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
E	Inorganic	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 50 times the IDL for analysis done on the ICP or 100 times the IDL for analysis done on the ICP-MS. The result was flagged with the E qualifier to indicate that a physical interference was observed.
E	Organic	Analyte concentration exceeds calibration range.
F	Inorganic	Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
F	Organic	Surrogate results outside control criteria.
G	All	The result is estimated because the concentration is less than the lowest calibration standard concentration utilized in the initial calibration. The method detection limit is less than the reporting limit specified for this project.
H	All	Preservation, extraction or analysis performed past holding time.
HF	Inorganic	This test is considered a field parameter, and the recommended holding time is 15 minutes from collection. The analysis was performed in the laboratory beyond the recommended holding time.
J	All	Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
K	Inorganic	Sample received unpreserved. Sample was either preserved at the time of receipt or at the time of sample preparation.
K	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
L	All	Elevated detection limit due to low sample volume.
M	Organic	Sample pH was greater than 2
N	All	Spiked sample recovery not within control limits.
O	Organic	Sample received overweight.
P	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	Organic	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
T	All	Inadequate sample volume received to perform the method required MS/MSD.
U	All	The analyte was not detected at or above the reporting limit.
V	All	Sample received with headspace.
W	All	A second aliquot of sample was analyzed from a container with headspace.
X	All	See Sample Narrative.
&	All	Laboratory Control Spike recovery not within control limits.
*	All	Precision not within control limits.
<	All	The analyte was not detected at or above the reporting limit.
1	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
2	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
3	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
4	Inorganic	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
5	Inorganic	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
6	Inorganic	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
7	Inorganic	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.

## En Chem, Inc. Cooler Receipt Log

Batch No. 858286

Project Name or ID Decorah

No. of Coolers: 1 Temps: ROI

A. Receipt Phase: Date cooler was opened: 4-15-05 By: AM

- 1: Were samples received on ice? (Must be  $\leq 6$  C).....YES NO<sup>2</sup> NA
- 2: Was there a Temperature Blank?.....YES NO
- 3: Were custody seals present and intact on cooler? (Record on COC).....YES NO
- 4: Are COC documents present?.....YES NO<sup>2</sup>
- 5: Does this Project require quick turn around analysis?.....YES NO<sup>2</sup>
- 6: Is there any sub-work?.....YES NO
- 7: Are there any short hold time tests?.....YES NO
- 8: Are any samples nearing expiration of hold-time? (Within 2 days).....YES<sup>1</sup> NO Contacted by/Who \_\_\_\_\_
- 9: Do any samples need to be Filtered or Preserved in the lab?.....YES<sup>1</sup> NO Contacted by/Who \_\_\_\_\_

B. Check-in Phase: Date samples were Checked-in: 4-15-05 By: AM

- 1: Were all sample containers listed on the COC received and intact?.....YES NO<sup>2</sup> NA
- 2: Sign the COC as received by En Chem. Completed.....YES NO
- 3: Do sample labels match the COC? .....YES NO<sup>2</sup>
- 4: Completed pH check on preserved samples.....YES NO NA
- 5: Do samples have correct chemical preservation?.....YES NO<sup>2</sup> NA
- 6: Are dissolved parameters field filtered?.....YES NO<sup>2</sup> NA
- 7: Are sample volumes adequate for tests requested? .....YES NO<sup>2</sup>
- 8: Are VOC samples free of bubbles >6mm .....YES NO<sup>2</sup> NA
- 9: Enter samples into logbook. Completed.....YES NO
- 10: Place laboratory sample number on all containers and COC. Completed.....YES NO
- 11: Complete Laboratory Tracking Sheet (LTS). Completed.....YES NO NA
- 12: Start Nonconformance form. ....YES NO NA
- 13: Initiate Subcontracting procedure. Completed.....YES NO NA SF
- 14: Check laboratory sample number on all containers and COC. ....SF YES NO NA

**Short Hold-time tests:**

24 Hours or less	48 Hours	7 days	Footnotes
Coliform	BOD	Ash	1 Notify proper lab group immediately.
Corrosivity = pH	Color	Aqueous Extractable Organics- ALL	2 Complete nonconformance memo.
Dissolved Oxygen	Nitrite or Nitrate	Flashpoint	
Hexavalent Chromium	Ortho Phosphorus	Free Liquids	
HPC	Surfactants	Sulfide	
Ferrous Iron	Turbidity	TDS	
Eh	En Core Preservation	TSS	
Odor	Power stop preservation	Total Solids	
Residual Chlorine		TVS	
Sulfite		TVSS	
		Unpreserved VOC's	

Rev. 2/05/04, Attachment to 1-REC-5.  
Subject to QA Audit.

Reviewed by/date WY/19/05





1241 Bellevue Street, Suite 9  
Green Bay, WI 54302  
920-469-2436, Fax: 920-469-8827

**Analytical Report Number: 858586**

Client: ARCADIS G & M - MILW

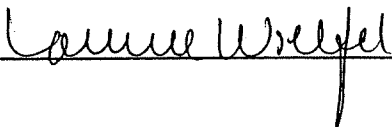
Lab Contact: Laurie Woelfel

Project Name: DECORAH

Project Number: WI001054.0001

Lab Sample Number	Field ID	Matrix	Collection Date
858586-001	MP-3	WATER	04/21/05
858586-002	MP-4	WATER	04/21/05
858586-003	MP-5	WATER	04/21/05
858586-004	MP-6	WATER	04/21/05
858586-005	MP-7	WATER	04/21/05
858586-006	MP-8	WATER	04/21/05
858586-007	MP-9	WATER	04/21/05
858586-008	MW-13	WATER	04/21/05

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.

Approval Signature 

Date 5/9/05

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 858586**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-4

Matrix Type : WATER  
Collection Date : 04/21/05  
Report Date : 05/09/05  
Lab Sample Number : 858586-002

**BROMIDE**

Prep Date:

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	12			0.10	1	mg/L		05/03/05	EPA 300.0	EPA 300.0

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 858586**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-6

Matrix Type : WATER  
Collection Date : 04/21/05  
Report Date : 05/09/05  
Lab Sample Number : 858586-004

**BROMIDE**

Prep Date:

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	< 0.10			0.10	1	mg/L		05/02/05	EPA 300.0	EPA 300.0

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 858586**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-8

Matrix Type : WATER  
Collection Date : 04/21/05  
Report Date : 05/09/05  
Lab Sample Number : 858586-006

**BROMIDE**

Prep Date:

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	88			0.10	1	mg/L		05/03/05	EPA 300.0	EPA 300.0

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 858586**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MW-13

Matrix Type : WATER  
Collection Date : 04/21/05  
Report Date : 05/09/05  
Lab Sample Number : 858586-008

**BROMIDE**

Prep Date:

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	< 0.10			0.10	1	mg/L		05/02/05	EPA 300.0	EPA 300.0

Test Group Name	858586-001	858586-002	858586-003	858586-004	858586-005	858586-006	858586-007	858586-008
BROMIDE	C	C	C	C	C	C	C	C

Wisconsin Certification	
G = En Chem Green Bay	405132750 / DATCP: 105-444
K = En Chem Kimberly	445134030
S = En Chem Superior	Not Applicable
C = Subcontracted Analysis	
I = Other Pace Lab Analysis	

Project Number/Name Decorah / WI001054,0001

Project Location West Bend, WI

Laboratory EN CHEM

Project Manager Dawn Gabardi

Sampler(s)/Affiliation M. Slattwell / ARCADIS

ANALYSIS / METHOD / SIZE

858586

Sample ID/Location	Matrix	Date/Time Sampled	TIME Lab ID	Bromide	Temperature	Remarks	Total
001 MP-3	L	4/21/05	10:30	1		1-250MLA	1
002 MP-4			11:42	1			1
003 MP-5			11:40	1			1
004 MP-6			10:40	1			1
005 MP-7			11:07	1			1
006 MP-8			11:17	1			1
007 MP-9			11:26	1			1
008 MW-13	V	V	12:22	1			1
Temperature (MS)	—————						+

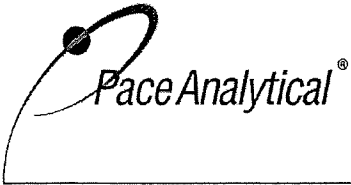
Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 98 (MS)

Relinquished by: <u>Matt Shattwell</u>	Organization: <u>ARCADIS</u>	Date: <u>4/21/05</u>	Time: <u>9:00</u>	Seal Intact? <u>Yes</u> No N/A
Received by: <u>Bill Nollmeyer</u>	Organization: <u>Pace</u>	Date: <u>4/22/05</u>	Time: <u>1050</u>	Seal Intact? <u>Yes</u> No N/A
Relinquished by: <u>Bill Nollmeyer</u>	Organization: <u>Pace</u>	Date: <u>4/25/05</u>	Time: <u>1300</u>	Seal Intact? <u>Yes</u> No N/A
Received by: <u>Dunham / Falk</u>	Organization: _____	Date: <u>4/26/05</u>	Time: <u>840</u>	Seal Intact? <u>Yes</u> No N/A

Special Instructions/Remarks: Direct all questions / comments to Dawn Gabardi @ ~~444-276~~ 414-276-7747 **NO seal**

Delivery Method:  In Person  Common Carrier  Lab Courier  Other \_\_\_\_\_



1241 Bellevue Street, Suite 9  
Green Bay, WI 54302  
920-469-2436, Fax: 920-469-8827

**Analytical Report Number: 858832**

Client: ARCADIS G & M - MILW

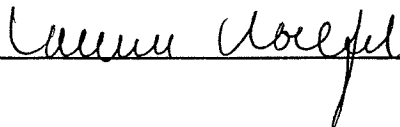
Lab Contact: Laurie Woelfel

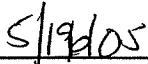
Project Name: DECORAH

Project Number: WI001054.0001

Lab Sample Number	Field ID	Matrix	Collection Date
858832-001	MP-4	WATER	04/29/05
858832-002	MP-5	WATER	04/29/05
858832-003	MP-9	WATER	04/29/05
858832-004	MP-3	WATER	04/29/05
858832-005	MP-8	WATER	04/29/05
858832-006	MP-7	WATER	04/29/05
858832-007	MP-6	WATER	04/29/05

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.

  
Approval Signature

  
Date



**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 858832**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-5

Matrix Type : WATER  
Collection Date : 04/29/05  
Report Date : 05/12/05  
Lab Sample Number : 858832-002

**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	120			0.10	1	mg/L		05/07/05	EPA 300.0	EPA 300.0

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 858832**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : MP-3

Matrix Type : WATER

Collection Date : 04/29/05

Report Date : 05/12/05

Lab Sample Number : 858832-004

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**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	< 0.10			0.10	1	mg/L	N	05/07/05	EPA 300.0	EPA 300.0

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 858832**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-7

Matrix Type : WATER  
Collection Date : 04/29/05  
Report Date : 05/12/05  
Lab Sample Number : 858832-006

**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	< 0.10			0.10	1	mg/L		05/07/05	EPA 300.0	EPA 300.0

## Qualifier Codes

Flag	Applies To	Explanation
A	Inorganic	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
B	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
B	Organic	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	All	Elevated detection limit.
D	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
E	Inorganic	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 50 times the IDL for analysis done on the ICP or 100 times the IDL for analysis done on the ICP-MS. The result was flagged with the E qualifier to indicate that a physical interference was observed.
E	Organic	Analyte concentration exceeds calibration range.
F	Inorganic	Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
F	Organic	Surrogate results outside control criteria.
G	All	The result is estimated because the concentration is less than the lowest calibration standard concentration utilized in the initial calibration. The method detection limit is less than the reporting limit specified for this project.
H	All	Preservation, extraction or analysis performed past holding time.
HF	Inorganic	This test is considered a field parameter, and the recommended holding time is 15 minutes from collection. The analysis was performed in the laboratory beyond the recommended holding time.
J	All	Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
K	Inorganic	Sample received unpreserved. Sample was either preserved at the time of receipt or at the time of sample preparation.
K	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
L	All	Elevated detection limit due to low sample volume.
M	Organic	Sample pH was greater than 2
N	All	Spiked sample recovery not within control limits.
O	Organic	Sample received overweight.
P	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	Organic	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
T	All	Inadequate sample volume received to perform the method required MS/MSD.
U	All	The analyte was not detected at or above the reporting limit.
V	All	Sample received with headspace.
W	All	A second aliquot of sample was analyzed from a container with headspace.
X	All	See Sample Narrative.
&	All	Laboratory Control Spike recovery not within control limits.
*	All	Precision not within control limits.
<	All	The analyte was not detected at or above the reporting limit.
1	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
2	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
3	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
4	Inorganic	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
5	Inorganic	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
6	Inorganic	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
7	Inorganic	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.

## En Chem, Inc. Cooler Receipt Log

Batch No. 858832

Project Name or ID Duorah

No. of Coolers: 1 Temps: R01

A. Receipt Phase: Date cooler was opened: 5-3-05 By: AB

- 1: Were samples received on ice? (Must be  $\leq 6$  C).....  YES    NO<sup>2</sup>    NA
- 2: Was there a Temperature Blank?..... YES     NO
- 3: Were custody seals present and intact on cooler? (Record on COC)..... YES     NO
- 4: Are COC documents present?.....  YES    NO<sup>2</sup>
- 5: Does this Project require quick turn around analysis?..... YES     NO
- 6: Is there any sub-work?.....  YES     NO 5-3-05 AB
- 7: Are there any short hold time tests?..... YES     NO
- 8: Are any samples nearing expiration of hold-time? (Within 2 days)..... YES<sup>1</sup>     NO    Contacted by/Who \_\_\_\_\_
- 9: Do any samples need to be Filtered or Preserved in the lab?..... YES<sup>1</sup>     NO    Contacted by/Who \_\_\_\_\_

B. Check-in Phase: Date samples were Checked-in: 5-3-05 By: AB

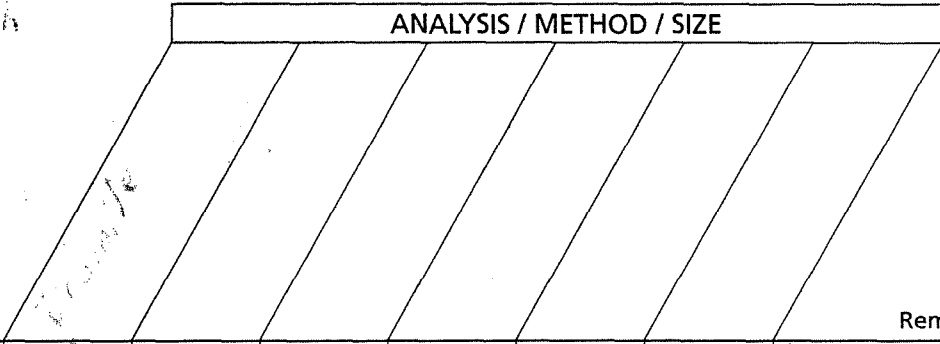
- 1: Were all sample containers listed on the COC received and intact?.....  YES    NO<sup>2</sup>    NA
- 2: Sign the COC as received by En Chem. Completed.....  YES    NO
- 3: Do sample labels match the COC? .....  YES    NO<sup>2</sup>
- 4: Completed pH check on preserved samples..... YES    NO     NA  
*(This statement does not apply to water: VOC, O&G, TOC, DRO, Total Rec. Phenolics)*
- 5: Do samples have correct chemical preservation?..... YES    NO<sup>2</sup>     NA  
*(This statement does not apply to water: VOC, O&G, TOC, DRO, Total Rec. Phenolics)*
- 6: Are dissolved parameters field filtered?..... YES    NO<sup>2</sup>     NA
- 7: Are sample volumes adequate for tests requested? .....  YES    NO<sup>2</sup>
- 8: Are VOC samples free of bubbles >6mm ..... YES    NO<sup>2</sup>     NA
- 9: Enter samples into logbook. Completed.....  YES    NO
- 10: Place laboratory sample number on all containers and COC. Completed.....  YES    NO
- 11: Complete Laboratory Tracking Sheet (LTS). Completed..... YES    NO     NA
- 12: Start Nonconformance form. .... YES    NO     NA
- 13: Initiate Subcontracting procedure. Completed.....  YES    NO     NA 5-3-05 AB
- 14: Check laboratory sample number on all containers and COC. .... 4/5/05  YES    NO    NA

**Short Hold-time tests:**

24 Hours or less	48 Hours	7 days	Footnotes 1 Notify proper lab group immediately. 2 Complete nonconformance memo.
Coliform	BOD	Ash	
Corrosivity = pH	Color	Aqueous Extractable Organics- ALL	
Dissolved Oxygen	Nitrite or Nitrate	Flashpoint	
Hexavalent Chromium	Ortho Phosphorus	Free Liquids	
HPC	Surfactants	Sulfide	
Ferrous Iron	Turbidity	TDS	
Eh	En Core Preservation	TSS	
Odor	Power stop preservation	Total Solids	
Residual Chlorine		TVS	
Sulfite		TVSS	
		Unpreserved VOC's	

Project Number/Name LE021054 002 / Dunham  
 Project Location 104 + 104th St  
 Laboratory EnChem  
 Project Manager W. G. ...  
 Sampler(s)/Affiliation ...

858832



Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE	Remarks	Total
001 NIP-4	L	5/12/105	1	1-80z amber <sup>A</sup>	Sample color	1
002 NIP-5	L	5/12/105	1		Sample color	1
003 NIP-9	L	5/12/105	1		Sample color	1
004 NIP-3	L	5/12/105	1		Sample color	1
005 NIP-8	L	5/12/105	1		Sample color	1
006 NIP-7	L	5/12/105	1		Sample color	1
007 NIP-6	L	5/12/105	1		Sample color	1

Sample Matrix: L = Liquid; S = Solid; A = Air Total No. of Bottles/Containers 7

Relinquished by: [Signature] Organization: ARCADIS Date 5/12/105 Time 845 Seal Intact? Yes  
 Received by: Bill Nottmeyer Organization: Pace Analytical / EnChem Date 5/12/105 Time 1130 Seal Intact? Yes

Relinquished by: Bill Nottmeyer Organization: Pace Date 5/12/105 Time 1445 Seal Intact? Yes  
 Received by: Dunham Organization: Delivery Date 5/12/105 Time 1445 Seal Intact? No R01

Special Instructions/Remarks:  
 Relinquished: Dunham 53-05 0855 Rec'd by: Dwight Bursky 53-05 0855

Delivery Method:  In Person  Common Carrier  Lab Courier  Other



1241 Bellevue Street, Suite 9  
Green Bay, WI 54302  
920-469-2436, Fax: 920-469-8827

**Analytical Report Number: 859120**

Client: ARCADIS G & M - MILW

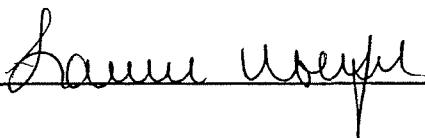
Lab Contact: Laurie Woelfel

Project Name: DECORAH

Project Number: WI001054.0001

Lab Sample Number	Field ID	Matrix	Collection Date
859120-001	MP-3	WATER	05/05/05
859120-002	MP-4	WATER	05/05/05
859120-003	MP-5	WATER	05/05/05
859120-004	MP-6	WATER	05/05/05
859120-005	MP-7	WATER	05/05/05
859120-006	MP-8	WATER	05/05/05
859120-007	MP-9	WATER	05/05/05

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.

Approval Signature 

Date 5/29/05

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 859120**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-4

Matrix Type : WATER  
Collection Date : 05/05/05  
Report Date : 05/27/05  
Lab Sample Number : 859120-002

**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	48			2.5	10	mg/L		05/25/05	EPA 300.0	EPA 300.0



**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 859120**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-6

Matrix Type : WATER  
Collection Date : 05/05/05  
Report Date : 05/27/05  
Lab Sample Number : 859120-004

**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	0.27			0.25	1	mg/L		05/25/05	EPA 300.0	EPA 300.0

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 859120**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-8

Matrix Type : WATER  
Collection Date : 05/05/05  
Report Date : 05/27/05  
Lab Sample Number : 859120-006

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**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	77			6.2	25	mg/L		05/25/05	EPA 300.0	EPA 300.0

Test Group Name	859120-001	859120-002	859120-003	859120-004	859120-005	859120-006	859120-007
BROMIDE	B	B	B	B	B	B	B

Code	Facility	Address	WI Certification
B	Green Bay Lab (Bellevue St)	1241 Bellevue Street, Suite 9 Green Bay, WI 54302	405132750 / DATCP: 105-444



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

**CHAIN-OF-CUSTODY RECORD**Page 1 of 1Project Number/Name W1001054.0001 / DecorahProject Location West BendLaboratory EN CHEMProject Manager Dawn GabardiSampler(s)/Affiliation M.S. / ARCADIS

ANALYSIS / METHOD / SIZE

BROMIDE  
AMBER JAR, preserve  
Temperature

Sample ID/Location	Matrix	Date/Time Sampled	TIME Lab ID						Remarks	Total
001 MP-3	L	5/5/05	10:20	1					1-802 amber <sup>A</sup>	1
002 MP-4	↓	↓	10:30	1					↓	1
003 MP-5	↓	↓	11:07	1					↓	1
004 MP-6	↓	↓	10:15	1					↓	1
005 MP-7	↓	↓	10:55	1					↓	1
006 MP-8	↓	↓	10:45	1					↓	1
007 MP-9	↓	↓	10:52	1					↓	1
008 Temp. Blank					1					1

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

Ice

Total No. of Bottles/  
Containers

8

Relinquished by: <u>Matt Shattuck</u>	Organization: <u>ARCADIS</u>	Date: <u>5/6/05</u>	Time: <u>8:00</u>	Seal Intact?
Received by: <u>Greg Ludloff Bill Nottmeyer</u>	Organization: <u><del>Fast Lane Pace</del></u>	Date: <u><del>5/6/05</del></u>	Time: <u><del>11:00</del></u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Relinquished by: <u>Bill Nottmeyer</u>	Organization: <u>Pace</u>	Date: <u>5/19/05</u>	Time: <u>1515</u>	Seal Intact?
Received by: <u>Dunkin</u>	Organization: <u>DELIVERY</u>	Date: <u>5/10/05</u>	Time: <u>0830</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A

Special Instructions/Remarks

Direct questions / Comments to Dawn Gabardi @ Arcadis 414-277-6270

859120

Delivery Method:  In Person  Common Carrier

RAF

SPECIFY

 Lab Courier Other

SPECIFY

AG 05-12/01



1241 Bellevue Street, Suite 9  
Green Bay, WI 54302  
920-469-2436, Fax: 920-469-8827

**Analytical Report Number: 859325**

Client: ARCADIS G & M - MILW

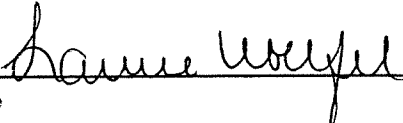
Lab Contact: Laurie Woelfel

Project Name: DECORAH

Project Number: WI001054.0001

Lab Sample Number	Field ID	Matrix	Collection Date
859325-001	MP-4	WATER	05/12/05
859325-002	MP-5	WATER	05/12/05
859325-003	MP-9	WATER	05/12/05
859325-004	MP-8	WATER	05/12/05

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.

Approval Signature 

Date 5/27/05

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 859325**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-5

Matrix Type : WATER  
Collection Date : 05/12/05  
Report Date : 05/27/05  
Lab Sample Number : 859325-002

**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	51			5.0	20	mg/L		05/24/05	EPA 300.0	EPA 300.0

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 859325**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-8

Matrix Type : WATER  
Collection Date : 05/12/05  
Report Date : 05/27/05  
Lab Sample Number : 859325-004

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**INORGANICS**

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Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	23			2.5	10	mg/L		05/25/05	EPA 300.0	EPA 300.0

---

## En Chem, Inc. Cooler Receipt Log

Batch No. 859325

Project Name or ID DUCORAH/W1001054-0001 No. of Coolers: 1 Temps: R01

A. Receipt Phase: Date cooler was opened: 5-16-05 By: AB

- 1: Were samples received on ice? (Must be ≤ 6 C).....  YES NO<sup>2</sup> NA
- 2: Was there a Temperature Blank?..... YES  NO
- 3: Were custody seals present and intact on cooler? (Record on COC).....  YES NO
- 4: Are COC documents present?.....  YES NO<sup>2</sup>
- 5: Does this Project require quick turn around analysis?..... YES  NO
- 6: Is there any sub-work?..... YES  NO
- 7: Are there any short hold time tests?..... YES  NO
- 8: Are any samples nearing expiration of hold-time? (Within 2 days)..... YES<sup>1</sup>  NO Contacted by/Who \_\_\_\_\_
- 9: Do any samples need to be Filtered or Preserved in the lab?..... YES<sup>1</sup>  NO Contacted by/Who \_\_\_\_\_

B. Check-in Phase: Date samples were Checked-in: 5-16-05 By: AB

- 1: Were all sample containers listed on the COC received and intact?.....  YES NO<sup>2</sup> NA
- 2: Sign the COC as received by En Chem. Completed.....  YES NO
- 3: Do sample labels match the COC? .....  YES NO<sup>2</sup>
- 4: Completed pH check on preserved samples.....  YES NO NA  
*(This statement does not apply to water: VOC, O&G, TOC, DRO, Total Rec. Phenolics)*
- 5: Do samples have correct chemical preservation?..... YES NO<sup>2</sup> NA  
*(This statement does not apply to water: VOC, O&G, TOC, DRO, Total Rec. Phenolics)*
- 6: Are dissolved parameters field filtered?..... YES NO<sup>2</sup> NA
- 7: Are sample volumes adequate for tests requested? .....  YES NO<sup>2</sup>
- 8: Are VOC samples free of bubbles >6mm ..... YES NO<sup>2</sup> NA
- 9: Enter samples into logbook. Completed.....  YES NO
- 10: Place laboratory sample number on all containers and COC. Completed.....  YES NO
- 11: Complete Laboratory Tracking Sheet (LTS). Completed..... YES NO NA
- 12: Start Nonconformance form. .... YES NO NA
- 13: Initiate Subcontracting procedure. Completed..... YES NO NA
- 14: Check laboratory sample number on all containers and COC. .... OK  YES NO NA

**Short Hold-time tests:**

24 Hours or less	48 Hours	7 days	Footnotes
Coliform	BOD	Ash	1 Notify proper lab group immediately.
Corrosivity = pH	Color	Aqueous Extractable Organics- ALL	2 Complete nonconformance memo.
Dissolved Oxygen	Nitrite or Nitrate	Flashpoint	
Hexavalent Chromium	Ortho Phosphorus	Free Liquids	
HPC	Surfactants	Sulfide	
Ferrous Iron	Turbidity	TDS	
Eh	En Core Preservation	TSS	
Odor	Power stop preservation	Total Solids	
Residual Chlorine		TVS	
Sulfite		TVSS	
		Unpreserved VOC's	

Rev. 2/05/04, Attachment to 1-REC-5.  
Subject to QA Audit.

Reviewed by/date WS/7/05





1241 Bellevue Street, Suite 9  
Green Bay, WI 54302  
920-469-2436, Fax: 920-469-8827

**Analytical Report Number: 859596**

Client: ARCADIS G & M - MILW

Lab Contact: Laurie Woelfel

Project Name: DECORAH

Project Number: WI001054.0001

Lab Sample Number	Field ID	Matrix	Collection Date
859596-001	MP-4	WATER	05/19/05
859596-002	MP-5	WATER	05/19/05
859596-003	MP-7	WATER	05/19/05
859596-004	MP-8	WATER	05/19/05
859596-005	MP-9	WATER	05/19/05
859596-006	TRIP BLANK	WATER	05/19/05

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.

Approval Signature Laurie Woelfel

Date 5/26/05

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 859596**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-4

Matrix Type : WATER  
Collection Date : 05/19/05  
Report Date : 05/26/05  
Lab Sample Number : 859596-001

**VOLATILES**

Prep Date: 05/24/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
n-Propylbenzene	< 0.81	0.81	2.7		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 0.67	0.67	2.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 0.89	0.89	3.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Styrene	< 0.86	0.86	2.9		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 0.97	0.97	3.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Tetrachloroethene	21	0.45	1.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	90				1	%Recov		05/24/05	SW846 5030B	SW846 8260B
Toluene-d8	102				1	%Recov		05/24/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	102				1	%Recov		05/24/05	SW846 5030B	SW846 8260B

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 859596**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-5

Matrix Type : WATER  
Collection Date : 05/19/05  
Report Date : 05/26/05  
Lab Sample Number : 859596-002

**VOLATILES**

Prep Date: 05/25/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
n-Propylbenzene	< 0.81	0.81	2.7		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 0.67	0.67	2.2		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 0.89	0.89	3.0		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
Styrene	< 0.86	0.86	2.9		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 0.97	0.97	3.2		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
Tetrachloroethene	5.1	0.45	1.5		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	88				1	%Recov		05/25/05	SW846 5030B	SW846 8260B
Toluene-d8	92				1	%Recov		05/25/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	99				1	%Recov		05/25/05	SW846 5030B	SW846 8260B

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 859596**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-7

Matrix Type : WATER  
Collection Date : 05/19/05  
Report Date : 05/26/05  
Lab Sample Number : 859596-003

**VOLATILES**

Prep Date: 05/24/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
n-Propylbenzene	< 0.81	0.81	2.7		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 0.67	0.67	2.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 0.89	0.89	3.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Styrene	< 0.86	0.86	2.9		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 0.97	0.97	3.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Tetrachloroethene	14	0.45	1.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	95				1	%Recov		05/24/05	SW846 5030B	SW846 8260B
Toluene-d8	104				1	%Recov		05/24/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	98				1	%Recov		05/24/05	SW846 5030B	SW846 8260B

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-8

Matrix Type : WATER  
Collection Date : 05/19/05  
Report Date : 05/26/05  
Lab Sample Number : 859596-004

**VOLATILES**

Prep Date: 05/24/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
n-Propylbenzene	< 0.81	0.81	2.7		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 0.67	0.67	2.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 0.89	0.89	3.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Styrene	< 0.86	0.86	2.9		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 0.97	0.97	3.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Tetrachloroethene	13	0.45	1.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	90				1	%Recov		05/24/05	SW846 5030B	SW846 8260B
Toluene-d8	102				1	%Recov		05/24/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	98				1	%Recov		05/24/05	SW846 5030B	SW846 8260B

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 859596**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-9

Matrix Type : WATER  
Collection Date : 05/19/05  
Report Date : 05/26/05  
Lab Sample Number : 859596-005

**VOLATILES**

Prep Date: 05/24/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
n-Propylbenzene	< 0.81	0.81	2.7		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 0.67	0.67	2.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 0.89	0.89	3.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Styrene	< 0.86	0.86	2.9		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 0.97	0.97	3.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Tetrachloroethene	16	0.45	1.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	92				1	%Recov		05/24/05	SW846 5030B	SW846 8260B
Toluene-d8	104				1	%Recov		05/24/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	98				1	%Recov		05/24/05	SW846 5030B	SW846 8260B

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 859596**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : TRIP BLANK

Matrix Type : WATER  
Collection Date : 05/19/05  
Report Date : 05/26/05  
Lab Sample Number : 859596-006

**VOLATILES**

Prep Date: 05/24/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
n-Propylbenzene	< 0.81	0.81	2.7		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 0.67	0.67	2.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 0.89	0.89	3.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Styrene	< 0.86	0.86	2.9		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 0.97	0.97	3.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Tetrachloroethene	< 0.45	0.45	1.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	95				1	%Recov		05/24/05	SW846 5030B	SW846 8260B
Toluene-d8	103				1	%Recov		05/24/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	102				1	%Recov		05/24/05	SW846 5030B	SW846 8260B

## En Chem, Inc. Cooler Receipt Log

Batch No. 859596

Project Name or ID W100054.0001 No. of Coolers: 1 Temps: RJT

A. Receipt Phase: Date cooler was opened: 5/20/05 By: LS

- 1: Were samples received on ice? (Must be  $\leq 6$  C)..... YES    NO<sup>2</sup>    NA
- 2: Was there a Temperature Blank?.....YES     NO
- 3: Were custody seals present and intact on cooler? (Record on COC).....YES     NO
- 4: Are COC documents present?..... YES    NO<sup>2</sup>
- 5: Does this Project require quick turn around analysis?.....YES     NO
- 6: Is there any sub-work?.....YES     NO
- 7: Are there any short hold time tests?.....YES     NO
- 8: Are any samples nearing expiration of hold-time? (Within 2 days).....YES<sup>1</sup>     NO    Contacted by/Who \_\_\_\_\_
- 9: Do any samples need to be Filtered or Preserved in the lab?.....YES<sup>1</sup>     NO    Contacted by/Who \_\_\_\_\_

B. Check-in Phase: Date samples were Checked-in: 5/20/05 By: LS

- 1: Were all sample containers listed on the COC received and intact?..... YES    NO<sup>2</sup>    NA
- 2: Sign the COC as received by En Chem. Completed..... YES    NO
- 3: Do sample labels match the COC? ..... YES    NO<sup>2</sup>
- 4: Completed pH check on preserved samples.....YES    NO     NA  
*(This statement does not apply to water: VOC, O&G, TOC, DRO, Total Rec. Phenolics)*
- 5: Do samples have correct chemical preservation?.....YES    NO<sup>2</sup>     NA  
*(This statement does not apply to water: VOC, O&G, TOC, DRO, Total Rec. Phenolics)*
- 6: Are dissolved parameters field filtered?.....YES    NO<sup>2</sup>     NA
- 7: Are sample volumes adequate for tests requested? ..... YES    NO<sup>2</sup>
- 8: Are VOC samples free of bubbles >6mm ..... YES    NO<sup>2</sup>    NA
- 9: Enter samples into logbook. Completed..... YES    NO
- 10: Place laboratory sample number on all containers and COC. Completed..... YES    NO
- 11: Complete Laboratory Tracking Sheet (LTS). Completed.....YES    NO     NA
- 12: Start Nonconformance form. ....YES    NO     NA
- 13: Initiate Subcontracting procedure. Completed.....YES    NO     NA
- 14: Check laboratory sample number on all containers and COC. ....SR  YES    NO    NA

**Short Hold-time tests:**

4 Hours or less	48 Hours	7 days	Footnotes 1 Notify proper lab group immediately. 2 Complete nonconformance memo.
Coliform	BOD	Ash	
Corrosivity = pH	Color	Aqueous Extractable Organics- ALL	
Dissolved Oxygen	Nitrite or Nitrate	Flashpoint	
Hexavalent Chromium	Ortho Phosphorus	Free Liquids	
HPC	Surfactants	Sulfide	
Ferrous Iron	Turbidity	TDS	
Oil	En Core Preservation	TSS	
Odor	Power stop preservation	Total Solids	
Residual Chlorine		TVS	
Sulfite		TVSS	
		Unpreserved VOC's	





1241 Bellevue Street, Suite 9  
Green Bay, WI 54302  
920-469-2436, Fax: 920-469-8827

**Analytical Report Number: 860129**

Client: ARCADIS G & M - MILW

Lab Contact: Laurie Woelfel

Project Name: DECORAH

Project Number: WI001054.0001

Lab Sample Number	Field ID	Matrix	Collection Date
860129-001	MP-7	WATER	06/06/05
860129-002	MW-13	WATER	06/06/05

RECEIVED  
JUN 22 2005

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.

Approval Signature Laurie Woelfel

Date 6/21/05

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 860129**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MW-13

Matrix Type : WATER  
Collection Date : 06/06/05  
Report Date : 06/17/05  
Lab Sample Number : 860129-002

**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	0.44		0.25		1	mg/L		06/16/05	EPA 300.0	EPA 300.0

## En Chem, Inc. Cooler Receipt Log

Batch No. 840129

Project Name or ID Decorzh

No. of Coolers: 1

Temps: ROI

A. Receipt Phase: Date cooler was opened: 6/7/05 By: AB

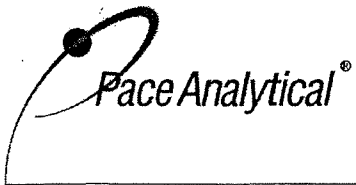
- 1: Were samples received on ice? (Must be  $\leq 6$  C).....  YES    NO<sup>2</sup>    NA
- 2: Was there a Temperature Blank?..... YES     NO
- 3: Were custody seals present and intact on cooler? (Record on COC)..... YES     NO
- 4: Are COC documents present?.....  YES    NO<sup>2</sup>
- 5: Does this Project require quick turn around analysis?..... YES     NO
- 6: Is there any sub-work?.....  YES     NO
- 7: Are there any short hold time tests?..... YES     NO
- 8: Are any samples nearing expiration of hold-time? (Within 2 days)..... YES<sup>1</sup>     NO    Contacted by/Who \_\_\_\_\_
- 9: Do any samples need to be Filtered or Preserved in the lab?..... YES<sup>1</sup>     NO    Contacted by/Who \_\_\_\_\_

B. Check-in Phase: Date samples were Checked-in: 6/7/05 By: AB

- 1: Were all sample containers listed on the COC received and intact?.....  YES    NO<sup>2</sup>    NA
- 2: Sign the COC as received by En Chem. Completed.....  YES    NO
- 3: Do sample labels match the COC? .....  YES    NO<sup>2</sup>
- 4: Completed pH check on preserved samples..... YES    NO     NA  
*(This statement does not apply to water: VOC, O&G, TOC, DRO, Total Rec. Phenolics)*
- 5: Do samples have correct chemical preservation?..... YES    NO<sup>2</sup>     NA  
*(This statement does not apply to water: VOC, O&G, TOC, DRO, Total Rec. Phenolics)*
- 6: Are dissolved parameters field filtered?..... YES    NO<sup>2</sup>     NA
- 7: Are sample volumes adequate for tests requested? .....  YES    NO<sup>2</sup>
- 8: Are VOC samples free of bubbles >6mm ..... YES    NO<sup>2</sup>     NA
- 9: Enter samples into logbook. Completed.....  YES    NO
- 10: Place laboratory sample number on all containers and COC. Completed.....  YES    NO
- 11: Complete Laboratory Tracking Sheet (LTS). Completed..... YES    NO     NA
- 12: Start Nonconformance form. .... YES    NO     NA
- 13: Initiate Subcontracting procedure. Completed..... YES    NO     NA
- 14: Check laboratory sample number on all containers and COC. ....  YES    NO    NA

**Short Hold-time tests:**

24 Hours or less Coliform Corrosivity = pH Dissolved Oxygen Hexavalent Chromium HPC Ferrous Iron Eh Odor Residual Chlorine Sulfite	48 Hours BOD Color Nitrite or Nitrate Ortho Phosphorus Surfactants Turbidity En Core Preservation Power stop preservation	7 days Ash Aqueous Extractable Organics- ALL Flashpoint Free Liquids Sulfide TDS TSS Total Solids TVS TVSS Unpreserved VOC's	Footnotes 1 Notify proper lab group immediately. 2 Complete nonconformance memo.
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1241 Bellevue Street, Suite 9  
Green Bay, WI 54302  
920-469-2436, Fax: 920-469-8827

**Analytical Report Number: 860307**

Client: ARCADIS G & M - MILW

Lab Contact: Laurie Woelfel

Project Name: DECORAH

Project Number: WI001054.0001

Lab Sample Number	Field ID	Matrix	Collection Date
860307-001	MP-7	WATER	06/09/05
860307-002	MW-13	WATER	06/09/05

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.

Laurie Woelfel  
Approval Signature

6/23/05  
Date

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 860307**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : W1001054.0001  
Field ID : MW-13

Matrix Type : WATER  
Collection Date : 06/09/05  
Report Date : 06/17/05  
Lab Sample Number : 860307-002

**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	0.48			0.25	1	mg/L		06/16/05	EPA 300.0	EPA 300.0

## En Chem, Inc. Cooler Receipt Log

Batch No. 860307

Project Name or ID Decorah No. of Coolers: 1 Temps: 201

A. Receipt Phase: Date cooler was opened: 6-10-05 By: Stalin

- 1: Were samples received on ice? (Must be  $\leq 6$  C).....  YES NO<sup>2</sup> NA
- 2: Was there a Temperature Blank?..... YES  NO
- 3: Were custody seals present and intact on cooler? (Record on COC)..... YES  NO
- 4: Are COC documents present?.....  YES NO<sup>2</sup>
- 5: Does this Project require quick turn around analysis?..... YES  NO
- 6: Is there any sub-work?..... YES  NO
- 7: Are there any short hold,time tests?..... YES  NO
- 8: Are any samples nearing expiration of hold-time? (Within 2 days)..... YES<sup>1</sup>  NO Contacted by/Who \_\_\_\_\_
- 9: Do any samples need to be Filtered or Preserved in the lab?..... YES<sup>1</sup>  NO Contacted by/Who \_\_\_\_\_

B. Check-in Phase: Date samples were Checked-in: 6-10-05 By: Stalin

- 1: Were all sample containers listed on the COC received and intact?.....  YES NO<sup>2</sup> NA
- 2: Sign the COC as received by En Chem. Completed.....  YES NO
- 3: Do sample labels match the COC? .....  YES NO<sup>2</sup>
- 4: Completed pH check on preserved samples..... YES NO  NA  
*(This statement does not apply to water: VOC, O&G, TOC, DRO, Total Rec. Phenolics)*
- 5: Do samples have correct chemical preservation?..... YES NO<sup>2</sup>  NA  
*(This statement does not apply to water: VOC, O&G, TOC, DRO, Total Rec. Phenolics)*
- 6: Are dissolved parameters field filtered?..... YES NO<sup>2</sup>  NA
- 7: Are sample volumes adequate for tests requested? .....  YES NO<sup>2</sup>
- 8: Are VOC samples free of bubbles >6mm ..... YES NO<sup>2</sup>  NA
- 9: Enter samples into logbook. Completed.....  YES NO
- 10: Place laboratory sample number on all containers and COC. Completed.....  YES NO
- 11: Complete Laboratory Tracking Sheet (LTS). Completed..... YES NO  NA
- 12: Start Nonconformance form. .... YES NO  NA
- 13: Initiate Subcontracting procedure. Completed..... YES NO  NA
- 14: Check laboratory sample number on all containers and COC. .... AB  YES NO NA

**Short Hold-time tests:**

24 Hours or less Coliform Corrosivity = pH Dissolved Oxygen Hexavalent Chromium HPC Ferrous Iron Eh Odor Residual Chlorine Sulfite	48 Hours BOD Color Nitrite or Nitrate Ortho Phosphorus Surfactants Turbidity En Core Preservation Power stop preservation	7 days Ash Aqueous Extractable Organics- ALL Flashpoint Free Liquids Sulfide TDS TSS Total Solids TVS TVSS Unpreserved VOC's	Footnotes 1 Notify proper lab group immediately. 2 Complete nonconformance memo.
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1241 Bellevue Street, Suite 9  
Green Bay, WI 54302  
920-469-2436, Fax: 920-469-8827

**Analytical Report Number: 860453**

Client: ARCADIS G & M - MILW

Lab Contact: Laurie Woelfel

Project Name: DECORAH

Project Number: WI001054.0001

Lab Sample Number	Field ID	Matrix	Collection Date
860453-001	MP-7	WATER	06/14/05
860453-002	MW-13	WATER	06/14/05

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.

Laurie Woelfel  
Approval Signature

6/27/05  
Date

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 860453**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MW-13

Matrix Type : WATER  
Collection Date : 06/14/05  
Report Date : 06/17/05  
Lab Sample Number : 860453-002

---

**INORGANICS**

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Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	0.54			0.25	1	mg/L		06/16/05	EPA 300.0	EPA 300.0

---





**Sample Condition Upon Receipt**

Client Name: Decorah Project # 860453

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

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

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

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

Cooler Temperature ROI Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Optional   
Proj. Due Date  
Proj. Name  
Date and Initials of person examining contents: 6-15-05 ESK

Comments:

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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4. <u>Just sampler name w</u>
Samples Arrived within Hold Time:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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 checked="" 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>L (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	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: \_\_\_\_\_ Field Data Required? Y / N

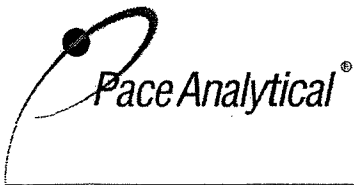
Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Project Manager Review: \_\_\_\_\_ Date: \_\_\_\_\_

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e out of hold, incorrect preservative, out of temp, incorrect containers)



1241 Bellevue Street, Suite 9  
Green Bay, WI 54302  
920-469-2436, Fax: 920-469-8827

**Analytical Report Number: 860761**

Client: ARCADIS G & M - MILW

Lab Contact: Laurie Woelfel

Project Name: DECORAH

Project Number: WI001054-0001

Lab Sample Number	Field ID	Matrix	Collection Date
860761-001	M <del>7</del> -7 p	WATER	06/21/05

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.

Approval Signature Laurie Woelfel

Date 7/7/05

860761-001

Test Group Name

BROMIDE

B

Code	Facility	Address	WI Certification
B	Green Bay Lab (Bellevue St)	1241 Bellevue Street, Suite 9 Green Bay, WI 54302	405132750 / DATCP: 105-444



1241 Bellevue Street, Suite 9  
Green Bay, WI 54302  
920-469-2436, Fax: 920-469-8827

**Analytical Report Number: 861336**

Client: ARCADIS G & M - MILW

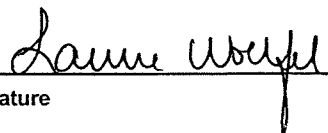
Lab Contact: Laurie Woelfel

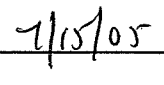
Project Name: DECORAH

Project Number: WI001054.0001

Lab Sample Number	Field ID	Matrix	Collection Date
861336-001	MP-7	WATER	07/07/05
861336-002	MW-13	WATER	07/07/05
861336-003	TRIP BLANK	WATER	07/07/05

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Approval Signature

  
Date

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 861336**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-7

Matrix Type : WATER  
Collection Date : 07/07/05  
Report Date : 07/14/05  
Lab Sample Number : 861336-001

**VOLATILES**

Prep Date: 07/13/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
n-Propylbenzene	< 0.81	0.81	2.7		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 0.67	0.67	2.2		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 0.89	0.89	3.0		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Styrene	< 0.86	0.86	2.9		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 0.97	0.97	3.2		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Tetrachloroethene	22	0.45	1.5		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	118				1	%Recov		07/13/05	SW846 5030B	SW846 8260B
Toluene-d8	119				1	%Recov		07/13/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	116				1	%Recov		07/13/05	SW846 5030B	SW846 8260B

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 861336**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : TRIP BLANK

Matrix Type : WATER  
Collection Date : 07/07/05  
Report Date : 07/14/05  
Lab Sample Number : 861336-003

**VOLATILES**

Prep Date: 07/13/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 0.92	0.92	3.1		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.67		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 0.75	0.75	2.5		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 0.74	0.74	2.5		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 0.99	0.99	3.3		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 0.97	0.97	3.2		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 0.97	0.97	3.2		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 0.83	0.83	2.8		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 0.61	0.61	2.0		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 0.62	0.62	2.1		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 0.85	0.85	2.8		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 0.74	0.74	2.5		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Bromobenzene	< 0.82	0.82	2.7		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 0.97	0.97	3.2		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Bromoform	< 0.94	0.94	3.1		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Bromomethane	< 0.91	0.91	3.0		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Dibromomethane	< 0.60	0.60	2.0		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 0.76	0.76	2.5		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 0.67	0.67	2.2		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 0.59	0.59	2.0		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Methylene Chloride	2.2	0.43	1.4		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 0.93	0.93	3.1		1	ug/L		07/13/05	SW846 5030B	SW846 8260B

Test Group Name	861336-001	861336-002	861336-003
BROMIDE		B	
VOLATILES	G		G

Code	Facility	Address	WI Certification
B	Green Bay Lab (Bellevue St)	1241 Bellevue Street, Suite 9 Green Bay, WI 54302	405132750 / DATCP: 105-444
G	Green Bay Lab (Industrial Dr)	1795 Industrial Drive Green Bay, WI 54302	405132750

Project Number/Name WI001054.0001 / Decorah  
 Project Location West Bend, WI  
 Laboratory Pace Analytical  
 Project Manager Jim Barnantine  
 Sampler(s)/Affiliation AM / ARCADIS

188  
861336

ANALYSIS / METHOD / SIZE	
VOC's (8260)	
40 ml VOA w/ HCl	
250 ml preserve	
NO pH w/ NO preserve	
Trip Blank (VOC, 8260)	
Temp Blank	

Sample ID/Location	Matrix	Date/Time Sampled	Time Lab ID	3	1	1	1	Remarks	Total
001 MP-7	L	7-7-05	9:57	3				40ml	3
002 MW-13	L	7-7-05	11:30		1			1-250	1
003 Trip Blank	L	—	—			1		40ml	1
Temp Blank	L	—	—				1		1

Sample Matrix: L = Liquid; S = Solid; A = Air Total No. of Bottles/Containers 6

Relinquished by: <u>Down Gabardi</u>	Organization: <u>ARCADIS</u>	Date: <u>7/8/05</u>	Time: <u>9 am</u>	Seal Intact? <u>(Yes)</u> No N/A
Received by: <u>Bill Rottemeyer</u>	Organization: <u>Pace</u>	Date: <u>7/8/05</u>	Time: <u>1100</u>	(Yes) No N/A
Relinquished by: <u>Bill Rottemeyer</u>	Organization: <u>Pace</u>	Date: <u>7/11/05</u>	Time: <u>1400</u>	Seal Intact? <u>(Yes)</u> No N/A
Received by: <u>R. Jacobs</u>	Organization: <u>Relinquished to Down Gabardi</u>	Date: <u>7/12/05</u>	Time: <u>9:00</u>	(Yes) No N/A

Special Instructions/Remarks: Please direct questions/comments to Down Gabardi w/ ARCADIS @ (4/4) 276-7742

Delivery Method:  In Person  Common Carrier  Lab Courier  Other





1241 Bellevue Street, Suite 9  
Green Bay, WI 54302  
920-469-2436, Fax: 920-469-8827

**Analytical Report Number: 861814**

Client: ARCADIS G & M - MILW

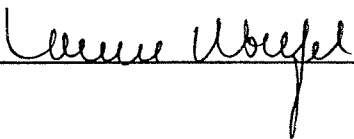
Lab Contact: Laurie Woelfel

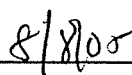
Project Name:

Project Number: WI001054.0001

Lab Sample Number	Field ID	Matrix	Collection Date
861814-001	MW-13	WATER	07/21/05

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.

  
Approval Signature

  
Date

861814-001

Test Group Name

BROMIDE

B

Code	Facility	Address	WI Certification
B	Green Bay Lab (Bellevue St)	1241 Bellevue Street, Suite 9 Green Bay, WI 54302	405132750 / DATCP: 105-444



1241 Bellevue Street, Suite 9  
Green Bay, WI 54302  
920-469-2436, Fax: 920-469-8827

**Analytical Report Number: 864117**

Client: ARCADIS G & M

Lab Contact: Laurie Woelfel

Project Name: DECORAH

Project Number: WI001054.0001

Lab Sample Number	Field ID	Matrix	Collection Date
864117-001	MP-1	WATER	09/19/05 13:30
864117-002	MW-13	WATER	09/19/05 14:40
864117-003	TRIP BLANK	WATER	09/19/05

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.

Laurie Woelfel  
Approval Signature

9/30/05  
Date

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 864117**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-1

Matrix Type : WATER  
Collection Date : 09/19/05  
Report Date : 09/28/05  
Lab Sample Number : 864117-001

**VOLATILES**

Prep Date: 09/26/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
n-Propylbenzene	< 8.1	8.1	27		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 6.7	6.7	22		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 8.9	8.9	30		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Styrene	< 8.6	8.6	29		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 9.7	9.7	32		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Tetrachloroethene	< 4.5	4.5	15		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Toluene	< 6.7	6.7	22		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 8.9	8.9	30		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 1.9	1.9	6.3		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Trichloroethene	< 4.8	4.8	16		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 1.8	1.8	6.0		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Xylene, o	< 8.3	8.3	28		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 18	18	60		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
<b>Surrogate</b>		<b>LCL</b>	<b>UCL</b>							
4-Bromofluorobenzene	108	65	133		10	%		09/26/05	SW846 5030B	SW846 8260B
Toluene-d8	98	72	137		10	%		09/26/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	96	69	140		10	%		09/26/05	SW846 5030B	SW846 8260B

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 864117**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-1

Matrix Type : WATER  
Collection Date : 09/19/05  
Report Date : 09/28/05  
Lab Sample Number : 864117-001

**VOLATILES**

Prep Date: 09/26/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
n-Propylbenzene	< 8.1	8.1	27		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 6.7	6.7	22		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 8.9	8.9	30		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Styrene	< 8.6	8.6	29		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 9.7	9.7	32		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Tetrachloroethene	< 4.5	4.5	15		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Toluene	< 6.7	6.7	22		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 8.9	8.9	30		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 1.9	1.9	6.3		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Trichloroethene	< 4.8	4.8	16		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 1.8	1.8	6.0		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Xylene, o	< 8.3	8.3	28		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 18	18	60		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
<b>Surrogate</b>		<b>LCL</b>	<b>UCL</b>							
4-Bromofluorobenzene	108	65	133		10	%		09/26/05	SW846 5030B	SW846 8260B
Toluene-d8	98	72	137		10	%		09/26/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	96	69	140		10	%		09/26/05	SW846 5030B	SW846 8260B

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 864117**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MW-13

Matrix Type : WATER  
Collection Date : 09/19/05  
Report Date : 09/28/05  
Lab Sample Number : 864117-002

**VOLATILES**

Prep Date: 09/27/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methylene Chloride	< 2.2	2.2	7.2		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 3.0	3.0	10		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
Naphthalene	< 3.7	3.7	12		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 4.6	4.6	16		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
n-Propylbenzene	< 4.1	4.1	14		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 3.4	3.4	11		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 4.4	4.4	15		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
Styrene	< 4.3	4.3	14		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 4.8	4.8	16		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
Tetrachloroethene	480	2.2	7.5		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
Toluene	< 3.4	3.4	11		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 4.4	4.4	15		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.95	0.95	3.2		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
Trichloroethene	22	2.4	8.0		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.90	0.90	3.0		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
Xylene, o	< 4.1	4.1	14		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 9.0	9.0	30		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
<b>Surrogate</b>		<b>LCL</b>	<b>UCL</b>							
4-Bromofluorobenzene	109	65	133		5	%		09/27/05	SW846 5030B	SW846 8260B
Toluene-d8	99	72	137		5	%		09/27/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	98	69	140		5	%		09/27/05	SW846 5030B	SW846 8260B

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 864117**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : TRIP BLANK

Matrix Type : WATER  
Collection Date : 09/19/05  
Report Date : 09/28/05  
Lab Sample Number : 864117-003

**VOLATILES**

Prep Date: 09/26/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
n-Propylbenzene	< 0.81	0.81	2.7		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 0.67	0.67	2.2		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 0.89	0.89	3.0		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
Styrene	< 0.86	0.86	2.9		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 0.97	0.97	3.2		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
Tetrachloroethene	< 0.45	0.45	1.5		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
<b>Surrogate</b>		<b>LCL</b>	<b>UCL</b>							
4-Bromofluorobenzene	100	65	133		1	%		09/26/05	SW846 5030B	SW846 8260B
Toluene-d8	95	72	137		1	%		09/26/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	99	69	140		1	%		09/26/05	SW846 5030B	SW846 8260B



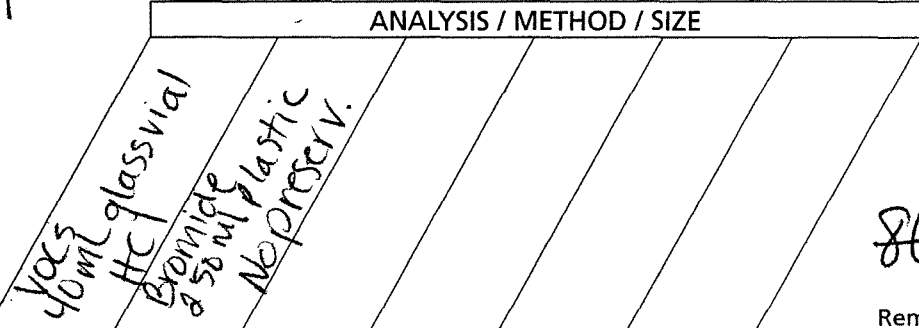
Project Number/Name WI001054.0001 Deerech

Project Location West Bend, WI

Laboratory Pace Analytical

Project Manager Dawn Gabardi

Sampler(s)/Affiliation Lori Schmidt



864117  
~~8640~~<sup>sh</sup> 9/21/05

Sample ID/Location	Matrix	Date/Time Sampled	Time Lab ID	ANALYSIS / METHOD / SIZE			Remarks	Total
MP-1	001 L	9/19/05	1330	3	*	3-40meb	Violet color due to Potassium permanganate	3
MW-13	002 L	9/19/05	1440	3	1	1, 1-250mln		4
Trip Blank	003 L	—	—	1		1-40meb		1

Sample Matrix: L = Liquid; S = Solid; A = Air Total No. of Bottles/Containers 8

Relinquished by: Lori Schmidt Organization: ARCADIS Date: 9/20/05 Time: 0840 Seal Intact? Yes

Received by: [Signature] Organization: Pace Analytical Date: 9/20/05 Time: 0940 Seal Intact? Yes

Relinquished by: [Signature] Organization: Pace Analytical Date: 9/20/05 Time:   Seal Intact? Yes

Received by: Dannah Harrison Organization: Pace Date: 9/21/05 Time: 830 Seal Intact? Yes

Special Instructions/Remarks: Any Questions, please call Dawn Gabardi @ 414 2767747

Delivery Method:  In Person  Common Carrier  Lab Courier  Other





864117-003  
864117-002  
864117-001

Test Group Name

BROMIDE

B

VOLATILES

G G G

Code	Facility	Address	WI Certification
B	Green Bay Lab (Bellevue St)	1241 Bellevue Street, Suite 9 Green Bay, WI 54302	405132750 / DATCP: 105-444
G	Green Bay Lab (Industrial Dr)	1795 Industrial Drive Green Bay, WI 54302	405132750

**Pace Analytical  
Services, Inc.**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436  
Fax: 920-469-8827

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Lab Number	TestGroupID	Field ID	Comment
864117-001	8260+-W	MP-1	k - Detection limit may be elevated due to hostile matrix.

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**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 864117**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : TRIP BLANK

Matrix Type : WATER  
Collection Date : 09/19/05  
Report Date : 09/28/05  
Lab Sample Number : 864117-003

**VOLATILES**

Prep Date: 09/26/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 0.92	0.92	3.1		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.67		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 0.75	0.75	2.5		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 0.74	0.74	2.5		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 0.99	0.99	3.3		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 0.97	0.97	3.2		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 0.97	0.97	3.2		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 0.83	0.83	2.8		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 0.61	0.61	2.0		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 0.62	0.62	2.1		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 0.85	0.85	2.8		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 0.74	0.74	2.5		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
Bromobenzene	< 0.82	0.82	2.7		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 0.97	0.97	3.2		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
Bromoform	< 0.94	0.94	3.1		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
Bromomethane	< 0.91	0.91	3.0		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
Dibromomethane	< 0.60	0.60	2.0		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 0.76	0.76	2.5		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 0.67	0.67	2.2		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 0.59	0.59	2.0		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 0.43	0.43	1.4		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		09/26/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 0.93	0.93	3.1		1	ug/L		09/26/05	SW846 5030B	SW846 8260B

Client : ARCADIS G & M  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MW-13

Matrix Type : WATER  
Collection Date : 09/19/05  
Report Date : 09/28/05  
Lab Sample Number : 864117-002

**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	35			2.5	10	mg/L		09/23/05	EPA 300.0	EPA 300.0

**VOLATILES**

Prep Date: 09/27/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 4.6	4.6	15		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 4.5	4.5	15		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 1.0	1.0	3.3		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 2.1	2.1	7.0		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 3.8	3.8	12		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 2.8	2.8	9.5		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 3.8	3.8	12		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 3.7	3.7	12		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 5.0	5.0	16		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 4.8	4.8	16		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 4.8	4.8	16		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 4.4	4.4	14		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 2.8	2.8	9.3		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 4.1	4.1	14		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 1.8	1.8	6.0		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 2.3	2.3	7.7		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 4.1	4.1	14		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 4.4	4.4	14		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 3.0	3.0	10		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 4.8	4.8	16		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 3.1	3.1	10		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 4.2	4.2	14		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 3.7	3.7	12		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
Benzene	< 2.0	2.0	6.8		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
Bromobenzene	< 4.1	4.1	14		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 4.8	4.8	16		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 2.8	2.8	9.3		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
Bromoform	< 4.7	4.7	16		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
Bromomethane	< 4.6	4.6	15		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 2.4	2.4	8.2		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 2.0	2.0	6.8		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 4.1	4.1	14		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
Chloroethane	< 4.8	4.8	16		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
Chloroform	< 1.8	1.8	6.2		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
Chloromethane	< 1.2	1.2	4.0		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 4.1	4.1	14		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.95	0.95	3.2		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
Dibromomethane	< 3.0	3.0	10		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 5.0	5.0	16		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 3.8	3.8	13		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 2.7	2.7	9.0		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 4.0	4.0	13		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 3.4	3.4	11		5	ug/L		09/27/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 2.9	2.9	9.8		5	ug/L		09/27/05	SW846 5030B	SW846 8260B

Client : ARCADIS G & M  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-1

Matrix Type : WATER  
Collection Date : 09/19/05  
Report Date : 09/28/05  
Lab Sample Number : 864117-001

**VOLATILES**

Prep Date: 09/26/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 9.2	9.2	31		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 9.0	9.0	30		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 2.0	2.0	6.7		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 4.2	4.2	14		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 7.5	7.5	25		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 5.7	5.7	19		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 7.5	7.5	25		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 7.4	7.4	25		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 9.9	9.9	33		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 9.7	9.7	32		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 9.7	9.7	32		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 8.7	8.7	29		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 5.6	5.6	19		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 8.3	8.3	28		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 3.6	3.6	12		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 4.6	4.6	15		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 8.3	8.3	28		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 8.7	8.7	29		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 6.1	6.1	20		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 9.5	9.5	32		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 6.2	6.2	21		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 8.5	8.5	28		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 7.4	7.4	25		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Benzene	< 4.1	4.1	14		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Bromobenzene	< 8.2	8.2	27		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 9.7	9.7	32		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 5.6	5.6	19		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Bromoform	< 9.4	9.4	31		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Bromomethane	< 9.1	9.1	30		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 4.9	4.9	16		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 4.1	4.1	14		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 8.1	8.1	27		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Chloroethane	< 9.7	9.7	32		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Chloroform	< 3.7	3.7	12		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Chloromethane	< 2.4	2.4	8.0		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 8.3	8.3	28		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 1.9	1.9	6.3		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Dibromomethane	< 6.0	6.0	20		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 9.9	9.9	33		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 7.6	7.6	25		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 5.4	5.4	18		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 7.9	7.9	26		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 6.7	6.7	22		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 5.9	5.9	20		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 4.3	4.3	14		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 6.1	6.1	20		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
Naphthalene	< 7.4	7.4	25		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 9.3	9.3	31		10	ug/L	K	09/26/05	SW846 5030B	SW846 8260B



**Sample Condition Upon Receipt**

✓ 87



Client Name: ARCADIS Project # 861814

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

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

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

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

Cooler Temperature ROI Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Optional  
Proj. Due Date  
Proj. Name

Date and Initials of person examining contents: 7-25-05

		Comments:
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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4. <sup>PLUS</sup> INITIAL <u>7-25-05</u>
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 type="checkbox"/> No <input checked="" type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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, WL-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	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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: W Date: 7/26/05

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR



**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 861814**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW

Matrix Type : WATER

Project Name :

Collection Date : 07/21/05

Project Number : WI001054.0001

Report Date : 08/04/05

Field ID : MW-13

Lab Sample Number : 861814-001

---

**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	320			62	250	mg/L		08/03/05	EPA 300.0	EPA 300.0

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Sample Condition Upon Receipt

✓ 1805

Client Name: Arcaides Project # 861336

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

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

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

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

Cooler Temperature ROT Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Optional
Proj. Due Date
Proj. Name

Date and Initials of person examining contents: <u>7/12/05 RJ</u>
---

Comments:	
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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4. <u>Name but no signature</u>
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 type="checkbox"/> No <input checked="" type="checkbox"/> N/A	6.
Rush Turn Around Time Requested: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) <input checked="" 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	14.
Headspace in VOA Vials (>6mm): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
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: W Date: 7/15/05

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : TRIP BLANK

Matrix Type : WATER

Collection Date : 07/07/05

Report Date : 07/14/05

Lab Sample Number : 861336-003

**VOLATILES**

Prep Date: 07/13/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
n-Propylbenzene	< 0.81	0.81	2.7		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 0.67	0.67	2.2		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 0.89	0.89	3.0		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Styrene	< 0.86	0.86	2.9		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 0.97	0.97	3.2		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Tetrachloroethene	< 0.45	0.45	1.5		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	120				1	%Recov		07/13/05	SW846 5030B	SW846 8260B
Toluene-d8	121				1	%Recov		07/13/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	115				1	%Recov		07/13/05	SW846 5030B	SW846 8260B

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 861336**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MW-13

Matrix Type : WATER  
Collection Date : 07/07/05  
Report Date : 07/14/05  
Lab Sample Number : 861336-002

**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	430			25	100	mg/L		07/12/05	EPA 300.0	EPA 300.0

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 861336**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-7

Matrix Type : WATER  
Collection Date : 07/07/05  
Report Date : 07/14/05  
Lab Sample Number : 861336-001

**VOLATILES**

Prep Date: 07/13/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 0.92	0.92	3.1		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.67		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 0.75	0.75	2.5		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 0.74	0.74	2.5		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 0.99	0.99	3.3		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 0.97	0.97	3.2		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 0.97	0.97	3.2		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 0.83	0.83	2.8		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 0.61	0.61	2.0		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 0.62	0.62	2.1		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 0.85	0.85	2.8		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 0.74	0.74	2.5		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Bromobenzene	< 0.82	0.82	2.7		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 0.97	0.97	3.2		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Bromoform	< 0.94	0.94	3.1		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Bromomethane	< 0.91	0.91	3.0		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Dibromomethane	< 0.60	0.60	2.0		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 0.76	0.76	2.5		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 0.67	0.67	2.2		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 0.59	0.59	2.0		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 0.43	0.43	1.4		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		07/13/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 0.93	0.93	3.1		1	ug/L		07/13/05	SW846 5030B	SW846 8260B





**Sample Condition Upon Receipt**

Client Name: Arcadis Project # 860761

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

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

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

Thermometer Used \_\_\_\_\_ Type of Ice: Wet Blue None  Samples on ice, cooling process has begun

Cooler Temperature ROI  
Temp should be above freezing to 6°C

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 6/23/05 RJ

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 type="checkbox"/> No <input checked="" type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input 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: W Date: 6/24/05

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 860761**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054-0001  
Field ID : ~~MP-7~~  
MP-7

Matrix Type : WATER  
Collection Date : 06/21/05  
Report Date : 07/07/05  
Lab Sample Number : 860761-001

**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	0.41		0.25	1		mg/L		07/05/05	EPA 300.0	EPA 300.0

Project Number/Name WI 001054.0001/Deerwah  
 Project Location West Bend, WI  
 Laboratory Pace  
 Project Manager Dawn Gabardi  
 Sampler(s)/Affiliation Lori Schmidt

ANALYSIS / METHOD / SIZE

Bromide  
 250ml plastic  
 No presrv.

860453

Sample ID/Location	Matrix	Date/Time Sampled	Time Lab ID						Remarks	Total
MP-1	L	6/14/05	0928						1-250ml <sup>H</sup> x Pink color is KMNO <sub>4</sub>	1
MW-13	↓	↓	0937						↓	1

Relinquished by: B Kempen 6/15/05 1430

Rec'd by: Eir Sulechulak 6/15/05 1435

Sample Matrix: L = Liquid; S = Solid; A = Air Total No. of Bottles/Containers 2

Relinquished by: <u>Lori Schmidt</u>	Organization: <u>ARCADIS</u>	Date: <u>6/15/05</u>	Time: <u>0820</u>	Seal Intact? <u>Yes</u>
Received by: <u>[Signature]</u>	Organization: <u>Enter/Parc</u>	Date: <u>6/15/05</u>	Time: <u>1100</u>	Yes No N/A
Relinquished by: <u>[Signature]</u>	Organization: <u>Pace</u>	Date: <u>6/15/05</u>	Time: <u>1145</u>	Seal Intact? <u>Yes</u>
Received by: <u>B Kempen</u>	Organization: <u>Pace</u>	Date: <u>6/15/05</u>	Time: <u>1145</u>	Yes No N/A

Special Instructions/Remarks:  
Any questions, please call Dawn Gabardi @ 4142767742

Delivery Method:  In Person  Common Carrier  Lab Courier  Other \_\_\_\_\_

860453-002  
860453-001

Test Group Name

BROMIDE

B B

Code	Facility	Address	WI Certification
B	Green Bay Lab (Bellevue St)	1241 Bellevue Street, Suite 9 Green Bay, WI 54302	405132750 / DATCP: 105-444

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 860453**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-7

Matrix Type : WATER  
Collection Date : 06/14/05  
Report Date : 06/17/05  
Lab Sample Number : 860453-001

**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	6.6			0.25	1	mg/L		06/16/05	EPA 300.0	EPA 300.0



Project Number/Name W1001054.0001/Decorah  
 Project Location West Bend, WI  
 Laboratory Pace  
 Project Manager Dawn Gabardi  
 Sampler(s)/Affiliation Lori Schmidt

ANALYSIS / METHOD / SIZE

Bromide  
 Plastic Jar (250ml)  
 No presence

Sample ID/Location	Matrix	Date/Time Sampled	Time Lab ID	ANALYSIS / METHOD / SIZE	Remarks	Total
MP-7	DL	6/9/05	0920	1250ml	*pink color is potassium permanganate	1
MW-13	DL	↓	0930	↓		1

Sample Matrix: L = Liquid; S = Solid; A = Air Total No. of Bottles/Containers

Relinquished by: <u>[Signature]</u> Organization: <u>ARCADIS</u> Date: <u>6/10/05</u> Time: <u>830</u>	Seal Intact?
Received by: <u>[Signature]</u> Organization: <u>PACE</u> Date: <u>6/10/05</u> Time: <u>1150</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Relinquished by: <u>[Signature]</u> Organization: <u>PACE</u> Date: <u>6/10/05</u> Time: <u>1200</u>	Seal Intact?
Received by: <u>[Signature]</u> Organization: <u>Pace</u> Date: <u>6/10/05</u> Time: <u>1220</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A

Special Instructions/Remarks: Relinquished by [Signature] 6/10/05 - 1440  
Any Questions contact Dawn Gabardi @ 414276-7742  
860307

Delivery Method:  In Person  Common Carrier  Lab Courier  Other

860307-002  
860307-001

Test Group Name

BROMIDE

B B

Code	Facility	Address	WI Certification
B	Green Bay Lab (Bellevue St)	1241 Bellevue Street, Suite 9 Green Bay, WI 54302	405132750 / DATCP: 105-444

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 860307**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-7

Matrix Type : WATER  
Collection Date : 06/09/05  
Report Date : 06/17/05  
Lab Sample Number : 860307-001

**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	2.8			0.25	1	mg/L		06/16/05	EPA 300.0	EPA 300.0



VSF

Project Number/Name WI001054.0001/Decorah  
 Project Location West Bend, WI  
 Laboratory Pace Analytical  
 Project Manager Dawn Habardi  
 Sampler(s)/Affiliation Lori Schmidt

ANALYSIS / METHOD / SIZE

Bismide  
80% plastic  
NORMEX IV.

Sample ID/Location	Matrix	Date/Time Sampled	Time Lab ID	ANALYSIS / METHOD / SIZE	Remarks	Total
11 MP-7	L	6/6/05	1010	1-250 ml <sup>A</sup>	Purple color is potassium permanganate	1
02 MW-13			1025	↓		1

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

800129

Total No. of Bottles/Containers 2

Relinquished by: Lori Schmidt Organization: ARCADIS Date: 6/7/05 Time: 0830 Seal Intact?  Yes  No  N/A  
 Received by: Bill Nattermeyer Organization: Pace Date: 6/7/05 Time: 1105

Relinquished by: Bill Nattermeyer Organization: Pace Date: 6/7/05 Time: 1145 Seal Intact?  Yes  No  N/A  
 Received by: Logan Organization: \_\_\_\_\_ Date: 6/7/05 Time: 1145

Special Instructions/Remarks: Spec  
Rec'd by: Ashley Busky 6/7/05 1515

Delivery Method:  In Person  Common Carrier  Lab Courier  Other \_\_\_\_\_



860129-002  
860129-001

Test Group Name

BROMIDE

B B

Code	Facility	Address	WI Certification
B	Green Bay Lab (Bellevue St)	1241 Bellevue Street, Suite 9 Green Bay, WI 54302	405132750 / DATCP: 105-444

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 860129**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-7

Matrix Type : WATER  
Collection Date : 06/06/05  
Report Date : 06/17/05  
Lab Sample Number : 860129-001

**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	75			5.0	20	mg/L		06/16/05	EPA 300.0	EPA 300.0

Project Number/Name WI001059.000 / Aerial  
 Project Location West Bend, WI  
 Laboratory PACE  
 Project Manager Tim Bannentine  
 Sampler(s)/Affiliation PL / ARCADIS

 ANALYSIS / METHOD / SIZE  
 VOC's, Method 8260, 40 ml C11, 10% B200

Sample ID/Location	Matrix	Date/Time Sampled	Time Lab-ID	Total	Remarks
01 MP-4	L	5/19/05	1120	3	40m
02 MP-5	↓	↓	1150	3	
03 MP-7	↓	↓	1220	3	
04 MP-8	↓	↓	1250	3	
05 MP-9	↓	↓	1325	3	
06 Trip blank	↓	—	—	2	
					(859596)

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

 Total No. of Bottles/Containers 14/7

Relinquished by: <u>P. Lonah</u>	Organization: <u>ARCADIS</u>	Date: <u>5/19/05</u>	Time: <u>0900</u>	Seal Intact?
Received by: <u>Zoni Stevens</u>	Organization: <u>Pace Analytical</u>	Date: <u>5/20/05</u>	Time: <u>1410</u>	Yes No N/A
Relinquished by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Seal Intact?
Received by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Yes No N/A

 Special Instructions/Remarks: Any questions to D. Gabardi w/ ARCADIS @ (414) 276-7742

 Delivery Method:  In Person  Common Carrier  Lab Courier  Other

Pace Analytical  
Services, Inc.

Analysis Summary by Laboratory

1241 Bellevue Street  
Green Bay, WI 54302

Test Group Name	859596-006	859596-005	859596-004	859596-003	859596-002	859596-001
VOLATILES	G	G	G	G	G	G

Code	Facility	Address	WI Certification
G	Green Bay Lab (Industrial Dr)	1795 Industrial Drive Green Bay, WI 54302	405132750

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 859596**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : TRIP BLANK

Matrix Type : WATER  
Collection Date : 05/19/05  
Report Date : 05/26/05  
Lab Sample Number : 859596-006

**VOLATILES**

Prep Date: 05/24/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 0.92	0.92	3.1		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.67		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 0.75	0.75	2.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 0.74	0.74	2.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 0.99	0.99	3.3		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 0.97	0.97	3.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 0.97	0.97	3.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 0.83	0.83	2.8		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 0.61	0.61	2.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 0.62	0.62	2.1		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 0.85	0.85	2.8		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 0.74	0.74	2.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Bromobenzene	< 0.82	0.82	2.7		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 0.97	0.97	3.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Bromoform	< 0.94	0.94	3.1		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Bromomethane	< 0.91	0.91	3.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Dibromomethane	< 0.60	0.60	2.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 0.76	0.76	2.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 0.67	0.67	2.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 0.59	0.59	2.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Methylene Chloride	0.70	0.43	1.4		1	ug/L	Q	05/24/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 0.93	0.93	3.1		1	ug/L		05/24/05	SW846 5030B	SW846 8260B

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 859596**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-9

Matrix Type : WATER  
Collection Date : 05/19/05  
Report Date : 05/26/05  
Lab Sample Number : 859596-005

**VOLATILES**

Prep Date: 05/24/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 0.92	0.92	3.1		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.67		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 0.75	0.75	2.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 0.74	0.74	2.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 0.99	0.99	3.3		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 0.97	0.97	3.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 0.97	0.97	3.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 0.83	0.83	2.8		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 0.61	0.61	2.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 0.62	0.62	2.1		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 0.85	0.85	2.8		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 0.74	0.74	2.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Bromobenzene	< 0.82	0.82	2.7		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 0.97	0.97	3.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Bromoform	< 0.94	0.94	3.1		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Bromomethane	< 0.91	0.91	3.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Dibromomethane	< 0.60	0.60	2.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 0.76	0.76	2.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 0.67	0.67	2.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 0.59	0.59	2.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 0.43	0.43	1.4		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 0.93	0.93	3.1		1	ug/L		05/24/05	SW846 5030B	SW846 8260B

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 859596**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-8

Matrix Type : WATER  
Collection Date : 05/19/05  
Report Date : 05/26/05  
Lab Sample Number : 859596-004

**VOLATILES**

Prep Date: 05/24/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 0.92	0.92	3.1		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.67		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 0.75	0.75	2.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 0.74	0.74	2.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 0.99	0.99	3.3		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 0.97	0.97	3.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 0.97	0.97	3.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 0.83	0.83	2.8		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 0.61	0.61	2.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 0.62	0.62	2.1		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 0.85	0.85	2.8		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 0.74	0.74	2.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Bromobenzene	< 0.82	0.82	2.7		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 0.97	0.97	3.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Bromoform	< 0.94	0.94	3.1		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Bromomethane	< 0.91	0.91	3.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Dibromomethane	< 0.60	0.60	2.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 0.76	0.76	2.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 0.67	0.67	2.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 0.59	0.59	2.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 0.43	0.43	1.4		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 0.93	0.93	3.1		1	ug/L		05/24/05	SW846 5030B	SW846 8260B

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-7

Matrix Type : WATER  
Collection Date : 05/19/05  
Report Date : 05/26/05  
Lab Sample Number : 859596-003

**VOLATILES**

Prep Date: 05/24/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 0.92	0.92	3.1		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.67		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 0.75	0.75	2.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 0.74	0.74	2.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 0.99	0.99	3.3		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 0.97	0.97	3.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 0.97	0.97	3.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 0.83	0.83	2.8		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 0.61	0.61	2.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 0.62	0.62	2.1		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 0.85	0.85	2.8		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 0.74	0.74	2.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Bromobenzene	< 0.82	0.82	2.7		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 0.97	0.97	3.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Bromoform	< 0.94	0.94	3.1		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Bromomethane	< 0.91	0.91	3.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Dibromomethane	< 0.60	0.60	2.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 0.76	0.76	2.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 0.67	0.67	2.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 0.59	0.59	2.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 0.43	0.43	1.4		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 0.93	0.93	3.1		1	ug/L		05/24/05	SW846 5030B	SW846 8260B



**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 859596**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW

Matrix Type : WATER

Project Name : DECORAH

Collection Date : 05/19/05

Project Number : WI001054.0001

Report Date : 05/26/05

Field ID : MP-5

Lab Sample Number : 859596-002

**VOLATILES**

Prep Date: 05/25/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 0.92	0.92	3.1		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.67		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 0.75	0.75	2.5		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 0.74	0.74	2.5		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 0.99	0.99	3.3		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 0.97	0.97	3.2		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 0.97	0.97	3.2		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 0.83	0.83	2.8		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 0.61	0.61	2.0		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 0.62	0.62	2.1		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 0.85	0.85	2.8		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 0.74	0.74	2.5		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
Bromobenzene	< 0.82	0.82	2.7		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 0.97	0.97	3.2		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
Bromoform	18	0.94	3.1		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
Bromomethane	< 0.91	0.91	3.0		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
Dibromomethane	< 0.60	0.60	2.0		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 0.76	0.76	2.5		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 0.67	0.67	2.2		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 0.59	0.59	2.0		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 0.43	0.43	1.4		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		05/25/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 0.93	0.93	3.1		1	ug/L		05/25/05	SW846 5030B	SW846 8260B

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 859596**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-4

Matrix Type : WATER  
Collection Date : 05/19/05  
Report Date : 05/26/05  
Lab Sample Number : 859596-001

**VOLATILES**

Prep Date: 05/24/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 0.92	0.92	3.1		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.67		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 0.75	0.75	2.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 0.74	0.74	2.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 0.99	0.99	3.3		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 0.97	0.97	3.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 0.97	0.97	3.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 0.83	0.83	2.8		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 0.61	0.61	2.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 0.62	0.62	2.1		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 0.85	0.85	2.8		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 0.74	0.74	2.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Bromobenzene	< 0.82	0.82	2.7		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 0.97	0.97	3.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Bromoform	< 0.94	0.94	3.1		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Bromomethane	< 0.91	0.91	3.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Dibromomethane	< 0.60	0.60	2.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 0.76	0.76	2.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 0.67	0.67	2.2		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 0.59	0.59	2.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 0.43	0.43	1.4		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		05/24/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 0.93	0.93	3.1		1	ug/L		05/24/05	SW846 5030B	SW846 8260B

Project Number/Name WI001054.0001 / Decorah

 Project Location West Bend, WI

 Laboratory PACE

 Project Manager Jim Bannantino

 Sampler(s)/Affiliation PL / ARCADIS

## ANALYSIS / METHOD / SIZE

V&amp;S

 Bromide, 8 oz Amber  
 glass jar w/ 10 ml sample  
 EPA 300

	Sample ID/Location	Matrix	Date/Time Sampled	Time Lab ID				Remarks	Total
001	MP-4	L	5/12/05	1140	1				1
002	MP-5	↓	↓	1145	1			X Note: purple	1
003	MP-9	↓	↓	1200	1			Coloration due	1
004	MP-8	↓	↓	1215	1			to $KMNO_4$ .	1

859325  
 Total No. of Bottles/  
 Containers 4

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

Relinquished by: <u>Paul Lenaker</u>	Organization: <u>ARCADIS</u>	Date: <u>5/13/05</u>	Time: <u>6830</u>	Seal Intact?
Received by: _____	Organization: <u>COURIER</u>	Date: <u>5/13/05</u>	Time: <u>0830</u>	Yes No N/A
Relinquished by: _____	Organization: <u>COURIER</u>	Date: <u>5/11/05</u>	Time: <u>1500</u>	Seal Intact?
Received by: <u>Orhley Budyf</u>	Organization: <u>PACE</u>	Date: <u>5/11/05</u>	Time: <u>1500</u>	Yes No N/A

Special Instructions/Remarks:  
Any Questions / comments to Dawn Gabardi w/ ARCADIS @ (414) 276-7742  
email add to dgabardi@arcadis-us.com

 Delivery Method:  In Person  Common Carrier  Lab Courier  Other \_\_\_\_\_

201

Test Group Name	859325-001	859325-002	859325-003	859325-004
BROMIDE	B	B	B	B

Code	Facility	Address	WI Certification
B	Green Bay Lab (Bellevue St)	1241 Bellevue Street, Suite 9 Green Bay, WI 54302	405132750 / DATCP: 105-444

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 859325**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-9

Matrix Type : WATER  
Collection Date : 05/12/05  
Report Date : 05/27/05  
Lab Sample Number : 859325-003

**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	15			1.2	5	mg/L		05/25/05	EPA 300.0	EPA 300.0

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 859325**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-4

Matrix Type : WATER  
Collection Date : 05/12/05  
Report Date : 05/27/05  
Lab Sample Number : 859325-001

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**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	46			5.0	20	mg/L		05/24/05	EPA 300.0	EPA 300.0



## En Chem, Inc. Cooler Receipt Log

Batch No. 859120

Project Name or ID Dacorah

No. of Coolers: 1

Temps: ROI

A. Receipt Phase: Date cooler was opened: 5-10-05 By: AB

- |  |                                      |                                     |                        |
|--|--------------------------------------|-------------------------------------|------------------------|
| 1: Were samples received on ice? (Must be $\leq 6$ C).....               | <input checked="" type="radio"/> YES | NO <sup>2</sup>                     | NA                     |
| 2: Was there a Temperature Blank?.....                                   | YES                                  | <input checked="" type="radio"/> NO |                        |
| 3: Were custody seals present and intact on cooler? (Record on COC)..... | YES                                  | <input checked="" type="radio"/> NO |                        |
| 4: Are COC documents present?.....                                       | <input checked="" type="radio"/> YES | NO <sup>2</sup>                     |                        |
| 5: Does this Project require quick turn around analysis?.....            | YES                                  | <input checked="" type="radio"/> NO |                        |
| 6: Is there any sub-work?.....   | YES                                  | <input checked="" type="radio"/> NO |                        |
| 7: Are there any short hold time tests?.....                             | YES                                  | <input checked="" type="radio"/> NO |                        |
| 8: Are any samples nearing expiration of hold-time? (Within 2 days)..... | YES <sup>1</sup>                     | <input checked="" type="radio"/> NO | Contacted by/Who _____ |
| 9: Do any samples need to be Filtered or Preserved in the lab?.....      | YES <sup>1</sup>                     | <input checked="" type="radio"/> NO | Contacted by/Who _____ |

B. Check-in Phase: Date samples were Checked-in: 5-10-05 By: AB

- |   |                                      |                 |                                     |
|---|--------------------------------------|-----------------|-------------------------------------|
| 1: Were all sample containers listed on the COC received and intact?.....   | <input checked="" type="radio"/> YES | NO <sup>2</sup> | NA                                  |
| 2: Sign the COC as received by En Chem. Completed.....  | <input checked="" type="radio"/> YES | NO              |                                     |
| 3: Do sample labels match the COC? .....  | <input checked="" type="radio"/> YES | NO <sup>2</sup> |                                     |
| 4: Completed pH check on preserved samples.....<br><i>(This statement does not apply to water: VOC, O&amp;G, TOC, DRO, Total Rec. Phenolics)</i>        | YES                                  | NO              | <input checked="" type="radio"/> NA |
| 5: Do samples have correct chemical preservation?.....<br><i>(This statement does not apply to water: VOC, O&amp;G, TOC, DRO, Total Rec. Phenolics)</i> | YES                                  | NO <sup>2</sup> | <input checked="" type="radio"/> NA |
| 6: Are dissolved parameters field filtered?.....  | YES                                  | NO <sup>2</sup> | <input checked="" type="radio"/> NA |
| 7: Are sample volumes adequate for tests requested? .....   | <input checked="" type="radio"/> YES | NO <sup>2</sup> |                                     |
| 8: Are VOC samples free of bubbles >6mm .....   | YES                                  | NO <sup>2</sup> | <input checked="" type="radio"/> NA |
| 9: Enter samples into logbook. Completed.....   | <input checked="" type="radio"/> YES | NO              |                                     |
| 10: Place laboratory sample number on all containers and COC. Completed.....  | <input checked="" type="radio"/> YES | NO              |                                     |
| 11: Complete Laboratory Tracking Sheet (LTS). Completed.....  | YES                                  | NO              | <input checked="" type="radio"/> NA |
| 12: Start Nonconformance form. ....   | YES                                  | NO              | <input checked="" type="radio"/> NA |
| 13: Initiate Subcontracting procedure. Completed.....   | YES                                  | NO              | <input checked="" type="radio"/> NA |
| 14: Check laboratory sample number on all containers and COC. .... <u>AB</u>  | <input checked="" type="radio"/> YES | NO              | NA                                  |

**Short Hold-time tests:**

24 Hours or less Coliform Corrosivity = pH Dissolved Oxygen Hexavalent Chromium HPC Ferrous Iron Eh Odor Residual Chlorine Sulfite	48 Hours BOD Color Nitrite or Nitrate Ortho Phosphorus Surfactants Turbidity En Core Preservation Power stop preservation	7 days Ash Aqueous Extractable Organics- ALL Flashpoint Free Liquids Sulfide TDS TSS Total Solids TVS TVSS Unpreserved VOC's	Footnotes 1 Notify proper lab group immediately. 2 Complete nonconformance memo.
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**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 859120**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-9

Matrix Type : WATER  
Collection Date : 05/05/05  
Report Date : 05/27/05  
Lab Sample Number : 859120-007

**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	33			5.0	20	mg/L		05/25/05	EPA 300.0	EPA 300.0

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 859120**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-7

Matrix Type : WATER  
Collection Date : 05/05/05  
Report Date : 05/27/05  
Lab Sample Number : 859120-005

**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	0.55			0.25	1	mg/L		05/23/05	EPA 300.0	EPA 300.0

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 859120**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-5

Matrix Type : WATER  
Collection Date : 05/05/05  
Report Date : 05/27/05  
Lab Sample Number : 859120-003

**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	88			6.2	25	mg/L		05/25/05	EPA 300.0	EPA 300.0

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 859120**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-3

Matrix Type : WATER  
Collection Date : 05/05/05  
Report Date : 05/27/05  
Lab Sample Number : 859120-001

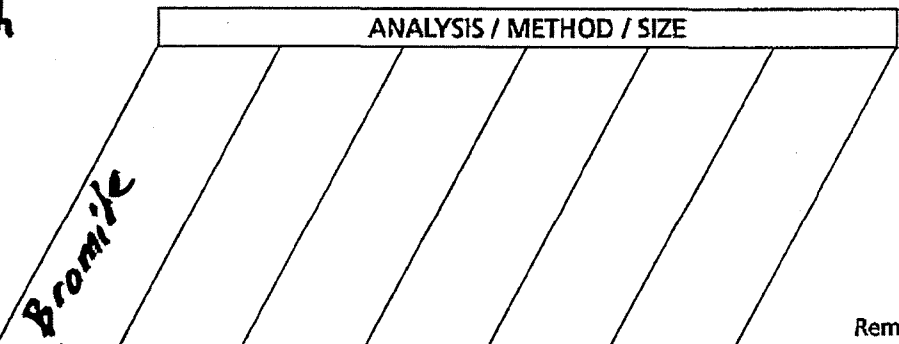
**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	< 0.25			0.25	1	mg/L		05/25/05	EPA 300.0	EPA 300.0



Project Number/Name WI001059.0002/Decorah  
 Project Location West Bend, WI  
 Laboratory EnChem  
 Project Manager D. Gabardi  
 Sampler(s)/Affiliation B. Maiklet

858832



Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE	Remarks	Total
001 MP-4	L	4/29/05/1025		1-8oz amber <sup>A</sup>	* purple color	1
002 MP-5		/1030			* purple color	1
003 MP-9		/1040			* pink color	
004 MP-3		/1050			* pink color	
005 MP-8		/1055				
006 MP-7		/1130				
007 MP-6		/1200				

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

Total No. of Bottles/Containers 7

Relinquished by: <u>[Signature]</u>	Organization: <u>ARCADIS</u>	Date: <u>5/2/05</u>	Time: <u>845</u>	Seal Intact? <u>Yes</u>
Received by: <u>Bill Nottmeyer</u>	Organization: <u>Pace Analytical/EnChem</u>	Date: <u>5/2/05</u>	Time: <u>1130</u>	Yes No N/A
Relinquished by: <u>Bill Nottmeyer</u>	Organization: <u>Pace</u>	Date: <u>5/2/05</u>	Time: <u>1445</u>	Seal Intact? <u>Yes</u>
Received by: <u>Dunham</u>	Organization: <u>Delivery</u>	Date: <u>5/2/05</u>	Time: <u>1445</u>	Yes <u>(No)</u> N/A

Special Instructions/Remarks:  
 Relinquished to: Dunham 5-3-05 0855 Rec'd by: Dushley Bousky 5-3-05 0855

Delivery Method:  In Person  Common Carrier  Lab Courier  Other

Test Group Name	858832-007	858832-006	858832-005	858832-004	858832-003	858832-002	858832-001
BROMIDE	C	C	C	C	C	C	C

Wisconsin Certification	
G = En Chem Green Bay	405132750 / DATCP: 105-444
K = En Chem Kimberly	445134030
S = En Chem Superior	Not Applicable
C = Subcontracted Analysis	
I = Other Pace Lab Analysis	

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 858832**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-6

Matrix Type : WATER  
Collection Date : 04/29/05  
Report Date : 05/12/05  
Lab Sample Number : 858832-007

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**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	< 0.10			0.10	1	mg/L		05/07/05	EPA 300.0	EPA 300.0



**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 858832**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-8

Matrix Type : WATER  
Collection Date : 04/29/05  
Report Date : 05/12/05  
Lab Sample Number : 858832-005

**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	340			0.10	1	mg/L		05/09/05	EPA 300.0	EPA 300.0

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 858832**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-9

Matrix Type : WATER  
Collection Date : 04/29/05  
Report Date : 05/12/05  
Lab Sample Number : 858832-003

**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	42			0.10	1	mg/L		05/09/05	EPA 300.0	EPA 300.0

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 858832**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-4

Matrix Type : WATER  
Collection Date : 04/29/05  
Report Date : 05/12/05  
Lab Sample Number : 858832-001

**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	98			0.10	1	mg/L		05/07/05	EPA 300.0	EPA 300.0



Batch No. 858586

### En Chem, Inc. Cooler Receipt Log

Project Name or ID Decorah

No. of Coolers: 1 Temps: 201

A. Receipt Phase: Date cooler was opened: 4-26-05 By: Stalen

- 1: Were samples received on ice? (Must be ≤ 6 C).....YES NO<sup>2</sup> NA
- 2: Was there a Temperature Blank?.....YES NO
- 3: Were custody seals present and intact on cooler? (Record on COC).....YES NO
- 4: Are COC documents present?.....YES NO<sup>2</sup>
- 5: Does this Project require quick turn around analysis?.....YES NO
- 6: Is there any sub-work?.....YES NO
- 7: Are there any short hold time tests?.....YES NO
- 8: Are any samples nearing expiration of hold-time? (Within 2 days).....YES<sup>1</sup> NO Contacted by/Who \_\_\_\_\_
- 9: Do any samples need to be Filtered or Preserved in the lab?.....YES<sup>1</sup> NO Contacted by/Who \_\_\_\_\_

B. Check-in Phase: Date samples were Checked-in: 4-26-05 By: Stalen

- 1: Were all sample containers listed on the COC received and intact?.....YES NO<sup>2</sup> NA
- 2: Sign the COC as received by En Chem. Completed.....YES NO
- 3: Do sample labels match the COC? .....YES NO<sup>2</sup>
- 4: Completed pH check on preserved samples.....YES NO NA  
*(This statement does not apply to water: VOC, O&G, TOC, DRO, Total Rec. Phenolics)*
- 5: Do samples have correct chemical preservation?.....YES NO<sup>2</sup> NA  
*(This statement does not apply to water: VOC, O&G, TOC, DRO, Total Rec. Phenolics)*
- 6: Are dissolved parameters field filtered?.....YES NO<sup>2</sup> NA
- 7: Are sample volumes adequate for tests requested? .....YES NO<sup>2</sup>
- 8: Are VOC samples free of bubbles >6mm .....YES NO<sup>2</sup> NA
- 9: Enter samples into logbook. Completed.....YES NO
- 10: Place laboratory sample number on all containers and COC. Completed.....YES NO
- 11: Complete Laboratory Tracking Sheet (LTS). Completed.....YES NO NA
- 12: Start Nonconformance form. ....YES NO NA
- 13: Initiate Subcontracting procedure. Completed.....YES NO NA
- 14: Check laboratory sample number on all containers and COC. .... 4/26/05 YES NO NA

**Short Hold-time tests:**

24 Hours or less	48 Hours	7 days	Footnotes 1 Notify proper lab group immediately. 2 Complete nonconformance memo.
Coliform	BOD	Ash	
Corrosivity = pH	Color	Aqueous Extractable Organics- ALL	
Dissolved Oxygen	Nitrite or Nitrate	Flashpoint	
Hexavalent Chromium	Ortho Phosphorus	Free Liquids	
HPC	Surfactants	Sulfide	
Ferrous Iron	Turbidity	TDS	
Eh	En Core Preservation	TSS	
Odor	Power stop preservation	Total Solids	
Residual Chlorine		TVS	
Sulfite		TVSS	
		Unpreserved VOC's	

Rev. 2/05/04, Attachment to 1-REC-5.  
Subject to QA Audit.

Reviewed by/date W4/28/05

## Qualifier Codes

Flag	Applies To	Explanation
A	Inorganic	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
B	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
B	Organic	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	All	Elevated detection limit.
D	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
E	Inorganic	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 50 times the IDL for analysis done on the ICP or 100 times the IDL for analysis done on the ICP-MS. The result was flagged with the E qualifier to indicate that a physical interference was observed.
E	Organic	Analyte concentration exceeds calibration range.
F	Inorganic	Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
F	Organic	Surrogate results outside control criteria.
G	All	The result is estimated because the concentration is less than the lowest calibration standard concentration utilized in the initial calibration. The method detection limit is less than the reporting limit specified for this project.
H	All	Preservation, extraction or analysis performed past holding time.
HF	Inorganic	This test is considered a field parameter, and the recommended holding time is 15 minutes from collection. The analysis was performed in the laboratory beyond the recommended holding time.
J	All	Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
K	Inorganic	Sample received unpreserved. Sample was either preserved at the time of receipt or at the time of sample preparation.
K	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
L	All	Elevated detection limit due to low sample volume.
M	Organic	Sample pH was greater than 2
N	All	Spiked sample recovery not within control limits.
O	Organic	Sample received overweight.
P	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	Organic	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
T	All	Inadequate sample volume received to perform the method required MS/MSD.
U	All	The analyte was not detected at or above the reporting limit.
V	All	Sample received with headspace.
W	All	A second aliquot of sample was analyzed from a container with headspace.
X	All	See Sample Narrative.
&	All	Laboratory Control Spike recovery not within control limits.
*	All	Precision not within control limits.
<	All	The analyte was not detected at or above the reporting limit.
1	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
2	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
3	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
4	Inorganic	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
5	Inorganic	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
6	Inorganic	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
7	Inorganic	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 858586**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-9

Matrix Type : WATER  
Collection Date : 04/21/05  
Report Date : 05/09/05  
Lab Sample Number : 858586-007

**BROMIDE**

Prep Date:

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	230			0.10	1	mg/L		05/03/05	EPA 300.0	EPA 300.0

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 858586**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-7

Matrix Type : WATER  
Collection Date : 04/21/05  
Report Date : 05/09/05  
Lab Sample Number : 858586-005

**BROMIDE**

Prep Date:

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	< 0.10			0.10	1	mg/L		05/02/05	EPA 300.0	EPA 300.0



**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 858586**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-5

Matrix Type : WATER  
Collection Date : 04/21/05  
Report Date : 05/09/05  
Lab Sample Number : 858586-003

**BROMIDE**

Prep Date:

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	79			0.10	1	mg/L		05/03/05	EPA 300.0	EPA 300.0

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 858586**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-3

Matrix Type : WATER  
Collection Date : 04/21/05  
Report Date : 05/09/05  
Lab Sample Number : 858586-001

**BROMIDE**

Prep Date:

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	< 0.10			0.10	1	mg/L	N	05/02/05	EPA 300.0	EPA 300.0

Project Number/Name WI001054.0001 / Decorah  
 Project Location West Bend, WI  
 Laboratory EN CHEM  
 Project Manager Dawn Gabardi  
 Sampler(s)/Affiliation MS/ARCADIS

ANALYSIS / METHOD / SIZE					
Bromide	Temperature				

858286

Sample ID/Location	Matrix	Date/Time Sampled	Time Lab ID						Remarks	Total
MP-3	L	4/14/2005	10:45	1					1) 250 ml ply A	1
MP-4			10:35	1					} Purple color is from potassium permanganate 1) 250 ml KMnO4 ply A	1
MP-5			11:05	1				1		
MP-6			11:35	1				1		
MP-7			11:45	1				1		
MP-8			12:11	1				1		
MP-9			12:21	1				1		
Temp. Blank	~	~	~		1				1	

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

Total No. of Bottles/Containers 8

Relinquished by: <u>Matt Meltzer</u>	Organization: <u>ARCADIS</u>	Date: <u>4/14/05</u>	Time: <u>3:30</u>	Seal Intact?
Received by: _____	Organization: <u>En Chem</u>	Date: <u>4/15/05</u>	Time: <u>10:30</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Relinquished by: _____	Organization: <u>En Chem</u>	Date: <u>4/15/05</u>	Time: _____	Seal Intact?
Received by: <u>B Kempen</u>	Organization: <u>En Chem</u>	Date: <u>4/15/05</u>	Time: <u>1700</u>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Special Instructions/Remarks: Relinquished by B Kempen 4/15/05 1510  
Print all questions and comments to Dawn Gabardi @ 914-270-7742

Delivery Method:  In Person  Common Carrier  Lab Courier  Other \_\_\_\_\_

**Pace Analytical  
Services, Inc.**

**Analysis Summary by Laboratory**

1241 Bellevue Street  
Green Bay, WI 54302

1090 Kennedy Avenue  
Kimberly, WI 54136

Test Group Name	858286-007	858286-006	858286-005	858286-004	858286-003	858286-002	858286-001
BROMIDE	C	C	C	C	C	C	C

Wisconsin Certification	
G = En Chem Green Bay	405132750 / DATCP: 105-444
K = En Chem Kimberly	445134030
S = En Chem Superior	Not Applicable
C = Subcontracted Analysis	
I = Other Pace Lab Analysis	

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 858286**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-9

Matrix Type : WATER  
Collection Date : 04/14/05  
Report Date : 05/09/05  
Lab Sample Number : 858286-007

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**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	0.34			0.10	1	mg/L		04/25/05	EPA 300.0	EPA 300.0

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 858286**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-7

Matrix Type : WATER  
Collection Date : 04/14/05  
Report Date : 05/09/05  
Lab Sample Number : 858286-005

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**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	1.0			0.10	1	mg/L		04/25/05	EPA 300.0	EPA 300.0

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 858286**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-5

Matrix Type : WATER  
Collection Date : 04/14/05  
Report Date : 05/09/05  
Lab Sample Number : 858286-003

**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	390			0.10	1	mg/L		04/25/05	EPA 300.0	EPA 300.0

**Pace Analytical  
Services, Inc.**

**Analytical Report Number: 858286**

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : MP-3

Matrix Type : WATER  
Collection Date : 04/14/05  
Report Date : 05/09/05  
Lab Sample Number : 858286-001

**INORGANICS**

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Bromide	0.34			0.10	1	mg/L	N	04/25/05	EPA 300.0	EPA 300.0





## En Chem, Inc. Cooler Receipt Log

Batch No. 856629

Project Name or ID Decorah

No. of Coolers: 1 Temp: RO1

A. Receipt Phase: Date cooler was opened: 2/25/05 By: AB

- 1: Were samples received on ice? (Must be  $\leq 6$  C).....  YES    NO<sup>2</sup>    NA
- 2: Was there a Temperature Blank?..... YES     NO
- 3: Were custody seals present and intact on cooler? (Record on COC)..... YES     NO
- 4: Are COC documents present?.....  YES    NO<sup>2</sup>
- 5: Does this Project require quick turn around analysis?..... YES     NO
- 6: Is there any sub-work?..... YES     NO
- 7: Are there any short hold time tests?..... YES     NO
- 8: Are any samples nearing expiration of hold-time? (Within 2 days)..... YES<sup>1</sup>     NO    Contacted by/Who \_\_\_\_\_
- 9: Do any samples need to be Filtered or Preserved in the lab?..... YES<sup>1</sup>     NO    Contacted by/Who \_\_\_\_\_

B. Check-in Phase: Date samples were Checked-in: 2/25/05 By: AB

- 1: Were all sample containers listed on the COC received and intact?.....  YES    NO<sup>2</sup>    NA
- 2: Sign the COC as received by En Chem. Completed.....  YES    NO
- 3: Do sample labels match the COC? .....  YES    NO<sup>2</sup>
- 4: Completed pH check on preserved samples. .... YES    NO     NA  
*(This statement does not apply to water: VOC, O&G, TOC, DRO, Total Rec. Phenolics)*
- 5: Do samples have correct chemical preservation?..... YES    NO<sup>2</sup>     NA  
*(This statement does not apply to water: VOC, O&G, TOC, DRO, Total Rec. Phenolics)*
- 6: Are dissolved parameters field filtered?..... YES    NO<sup>2</sup>     NA
- 7: Are sample volumes adequate for tests requested? .....  YES    NO<sup>2</sup>
- 8: Are VOC samples free of bubbles >6mm .....  YES    NO<sup>2</sup>    NA
- 9: Enter samples into logbook. Completed.....  YES    NO
- 10: Place laboratory sample number on all containers and COC. Completed.....  YES    NO
- 11: Complete Laboratory Tracking Sheet (LTS). Completed.....  YES    NO     NA
- 12: Start Nonconformance form. .... YES    NO     NA
- 13: Initiate Subcontracting procedure. Completed..... YES    NO     NA
- 14: Check laboratory sample number on all containers and COC. .... 8F  YES    NO    NA

**Short Hold-time tests:**

24 Hours or less	48 Hours	7 days	Footnotes 1 Notify proper lab group immediately. 2 Complete nonconformance memo.
Coliform	BOD	Ash	
Corrosivity = pH	Color	Aqueous Extractable Organics- ALL	
Dissolved Oxygen	Nitrite or Nitrate	Flashpoint	
Hexavalent Chromium	Ortho Phosphorus	Free Liquids	
HPC	Surfactants	Sulfide	
Ferrous Iron	Turbidity	TDS	
Eh	En Core Preservation	TSS	
Odor	Power stop preservation	Total Solids	
Residual Chlorine		TVS	
Sulfite		TVSS	
		Unpreserved VOC's	

Rev. 2/05/04, Attachment to 1-REC-5.  
Subject to QA Audit.

Reviewed by/date CB 2/28/05

## Qualifier Codes

### Flag Applies To Explanation

Flag	Applies To	Explanation
A	Inorganic	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
B	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
B	Organic	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	All	Elevated detection limit.
D	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
E	Inorganic	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 50 times the IDL for analysis done on the ICP or 100 times the IDL for analysis done on the ICP-MS. The result was flagged with the E qualifier to indicate that a physical interference was observed.
E	Organic	Analyte concentration exceeds calibration range.
F	Inorganic	Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
F	Organic	Surrogate results outside control criteria.
G	All	The result is estimated because the concentration is less than the lowest calibration standard concentration utilized in the initial calibration. The method detection limit is less than the reporting limit specified for this project.
H	All	Preservation, extraction or analysis performed past holding time.
HF	Inorganic	This test is considered a field parameter, and the recommended holding time is 15 minutes from collection. The analysis was performed in the laboratory beyond the recommended holding time.
J	All	Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
K	Inorganic	Sample received unpreserved. Sample was either preserved at the time of receipt or at the time of sample preparation.
K	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
L	All	Elevated detection limit due to low sample volume.
M	Organic	Sample pH was greater than 2
N	All	Spiked sample recovery not within control limits.
O	Organic	Sample received overweight.
P	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	Organic	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
U	All	The analyte was not detected at or above the reporting limit.
V	All	Sample received with headspace.
W	All	A second aliquot of sample was analyzed from a container with headspace.
X	All	See Sample Narrative.
&	All	Laboratory Control Spike recovery not within control limits.
*	All	Precision not within control limits.
<	All	The analyte was not detected at or above the reporting limit.
1	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
2	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
3	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
4	Inorganic	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
5	Inorganic	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
6	Inorganic	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
7	Inorganic	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.

# En Chem

## Analytical Report Number: 856629

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : TRIP BLANK

Matrix Type : WATER

Collection Date : 02/24/05

Report Date : 03/02/05

Lab Sample Number : 856629-008

### VOLATILES

Prep Date: 02/28/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 0.92	0.92	3.1		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.67		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 0.75	0.75	2.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 0.74	0.74	2.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 0.99	0.99	3.3		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 0.97	0.97	3.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 0.97	0.97	3.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 0.83	0.83	2.8		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 0.61	0.61	2.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 0.62	0.62	2.1		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 0.85	0.85	2.8		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 0.74	0.74	2.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Bromobenzene	< 0.82	0.82	2.7		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 0.97	0.97	3.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Bromoform	< 0.94	0.94	3.1		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Bromomethane	< 0.91	0.91	3.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Dibromomethane	< 0.60	0.60	2.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 0.76	0.76	2.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 0.67	0.67	2.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 0.59	0.59	2.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 0.43	0.43	1.4		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 0.93	0.93	3.1		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
n-Propylbenzene	< 0.81	0.81	2.7		1	ug/L		02/28/05	SW846 5030B	SW846 8260B

# En Chem

## Analytical Report Number: 856629

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : DUP

*(MW-13B)*

Matrix Type : WATER

Collection Date : 02/24/05

Report Date : 03/02/05

Lab Sample Number : 856629-007

### VOLATILES

Prep Date: 03/01/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 9.2	9.2	31		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 9.0	9.0	30		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 2.0	2.0	6.7		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 4.2	4.2	14		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 7.5	7.5	25		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 5.7	5.7	19		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 7.5	7.5	25		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 7.4	7.4	25		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 9.9	9.9	33		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 9.7	9.7	32		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 9.7	9.7	32		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 8.7	8.7	29		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 5.6	5.6	19		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 8.3	8.3	28		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 3.6	3.6	12		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 4.6	4.6	15		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 8.3	8.3	28		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 8.7	8.7	29		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 6.1	6.1	20		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 9.5	9.5	32		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 6.2	6.2	21		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 8.5	8.5	28		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 7.4	7.4	25		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Benzene	< 4.1	4.1	14		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Bromobenzene	< 8.2	8.2	27		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 9.7	9.7	32		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 5.6	5.6	19		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Bromoform	< 9.4	9.4	31		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Bromomethane	< 9.1	9.1	30		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 4.9	4.9	16		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 4.1	4.1	14		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 8.1	8.1	27		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Chloroethane	< 9.7	9.7	32		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Chloroform	< 3.7	3.7	12		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Chloromethane	< 2.4	2.4	8.0		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 8.3	8.3	28		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 1.9	1.9	6.3		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Dibromomethane	< 6.0	6.0	20		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 9.9	9.9	33		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 7.6	7.6	25		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 5.4	5.4	18		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 7.9	7.9	26		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 6.7	6.7	22		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 5.9	5.9	20		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 4.3	4.3	14		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 6.1	6.1	20		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Naphthalene	< 7.4	7.4	25		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 9.3	9.3	31		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
n-Propylbenzene	< 8.1	8.1	27		10	ug/L		03/01/05	SW846 5030B	SW846 8260B

# En Chem

## Analytical Report Number: 856629

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : MP-1

Matrix Type : WATER

Collection Date : 02/24/05

Report Date : 03/02/05

Lab Sample Number : 856629-006

### VOLATILES

Prep Date: 02/28/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 0.92	0.92	3.1		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.67		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 0.75	0.75	2.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 0.74	0.74	2.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 0.99	0.99	3.3		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 0.97	0.97	3.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 0.97	0.97	3.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 0.83	0.83	2.8		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 0.61	0.61	2.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 0.62	0.62	2.1		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 0.85	0.85	2.8		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 0.74	0.74	2.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Bromobenzene	< 0.82	0.82	2.7		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 0.97	0.97	3.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Bromoform	< 0.94	0.94	3.1		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Bromomethane	< 0.91	0.91	3.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Dibromomethane	< 0.60	0.60	2.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 0.76	0.76	2.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 0.67	0.67	2.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 0.59	0.59	2.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 0.43	0.43	1.4		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 0.93	0.93	3.1		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
n-Propylbenzene	< 0.81	0.81	2.7		1	ug/L		02/28/05	SW846 5030B	SW846 8260B

# En Chem

## Analytical Report Number: 856629

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : MP-3

Matrix Type : WATER

Collection Date : 02/24/05

Report Date : 03/02/05

Lab Sample Number : 856629-005

### VOLATILES

Prep Date: 02/28/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 0.92	0.92	3.1		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.67		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 0.75	0.75	2.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 0.74	0.74	2.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 0.99	0.99	3.3		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 0.97	0.97	3.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 0.97	0.97	3.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 0.83	0.83	2.8		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 0.61	0.61	2.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 0.62	0.62	2.1		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 0.85	0.85	2.8		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 0.74	0.74	2.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Bromobenzene	< 0.82	0.82	2.7		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 0.97	0.97	3.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Bromoform	< 0.94	0.94	3.1		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Bromomethane	< 0.91	0.91	3.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Dibromomethane	< 0.60	0.60	2.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 0.76	0.76	2.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 0.67	0.67	2.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 0.59	0.59	2.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 0.43	0.43	1.4		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 0.93	0.93	3.1		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
n-Propylbenzene	< 0.81	0.81	2.7		1	ug/L		02/28/05	SW846 5030B	SW846 8260B

# En Chem

## Analytical Report Number: 856629

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : MP-7

Matrix Type : WATER

Collection Date : 02/24/05

Report Date : 03/02/05

Lab Sample Number : 856629-004

### VOLATILES

Prep Date: 02/28/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 0.92	0.92	3.1		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.67		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 0.75	0.75	2.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 0.74	0.74	2.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 0.99	0.99	3.3		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 0.97	0.97	3.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 0.97	0.97	3.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 0.83	0.83	2.8		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 0.61	0.61	2.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 0.62	0.62	2.1		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 0.85	0.85	2.8		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 0.74	0.74	2.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Bromobenzene	< 0.82	0.82	2.7		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 0.97	0.97	3.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Bromoform	< 0.94	0.94	3.1		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Bromomethane	< 0.91	0.91	3.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Dibromomethane	< 0.60	0.60	2.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 0.76	0.76	2.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 0.67	0.67	2.2		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 0.59	0.59	2.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 0.43	0.43	1.4		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 0.93	0.93	3.1		1	ug/L		02/28/05	SW846 5030B	SW846 8260B
n-Propylbenzene	< 0.81	0.81	2.7		1	ug/L		02/28/05	SW846 5030B	SW846 8260B



# En Chem

A Division of Pace Analytical Services, Inc.

## Analytical Report Number: 856629

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : FP-1

Matrix Type : WATER

Collection Date : 02/24/05

Report Date : 03/02/05

Lab Sample Number : 856629-003

### VOLATILES

Prep Date: 03/01/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 0.92	0.92	3.1		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.67		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 0.75	0.75	2.5		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 0.74	0.74	2.5		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 0.99	0.99	3.3		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 0.97	0.97	3.2		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 0.97	0.97	3.2		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 0.83	0.83	2.8		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 0.61	0.61	2.0		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 0.62	0.62	2.1		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 0.85	0.85	2.8		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 0.74	0.74	2.5		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
Bromobenzene	< 0.82	0.82	2.7		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 0.97	0.97	3.2		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
Bromoform	< 0.94	0.94	3.1		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
Bromomethane	< 0.91	0.91	3.0		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
Dibromomethane	< 0.60	0.60	2.0		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 0.76	0.76	2.5		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 0.67	0.67	2.2		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 0.59	0.59	2.0		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 0.43	0.43	1.4		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 0.93	0.93	3.1		1	ug/L		03/01/05	SW846 5030B	SW846 8260B
n-Propylbenzene	< 0.81	0.81	2.7		1	ug/L		03/01/05	SW846 5030B	SW846 8260B

# En Chem

## Analytical Report Number: 856629

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : MW-13B

Matrix Type : WATER

Collection Date : 02/24/05

Report Date : 03/02/05

Lab Sample Number : 856629-002

### VOLATILES

Prep Date: 03/01/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 9.2	9.2	31		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 9.0	9.0	30		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 2.0	2.0	6.7		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 4.2	4.2	14		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 7.5	7.5	25		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 5.7	5.7	19		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 7.5	7.5	25		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 7.4	7.4	25		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 9.9	9.9	33		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 9.7	9.7	32		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 9.7	9.7	32		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 8.7	8.7	29		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 5.6	5.6	19		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 8.3	8.3	28		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 3.6	3.6	12		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 4.6	4.6	15		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 8.3	8.3	28		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 8.7	8.7	29		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 6.1	6.1	20		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 9.5	9.5	32		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 6.2	6.2	21		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 8.5	8.5	28		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 7.4	7.4	25		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Benzene	< 4.1	4.1	14		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Bromobenzene	< 8.2	8.2	27		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 9.7	9.7	32		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 5.6	5.6	19		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Bromoform	< 9.4	9.4	31		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Bromomethane	< 9.1	9.1	30		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 4.9	4.9	16		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 4.1	4.1	14		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 8.1	8.1	27		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Chloroethane	< 9.7	9.7	32		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Chloroform	< 3.7	3.7	12		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Chloromethane	< 2.4	2.4	8.0		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 8.3	8.3	28		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 1.9	1.9	6.3		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Dibromomethane	< 6.0	6.0	20		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 9.9	9.9	33		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 7.6	7.6	25		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 5.4	5.4	18		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 7.9	7.9	26		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 6.7	6.7	22		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 5.9	5.9	20		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 4.3	4.3	14		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 6.1	6.1	20		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Naphthalene	< 7.4	7.4	25		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 9.3	9.3	31		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
n-Propylbenzene	< 8.1	8.1	27		10	ug/L		03/01/05	SW846 5030B	SW846 8260B

# En Chem

## Analytical Report Number: 856629

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : MW-13A

Matrix Type : WATER

Collection Date : 02/24/05

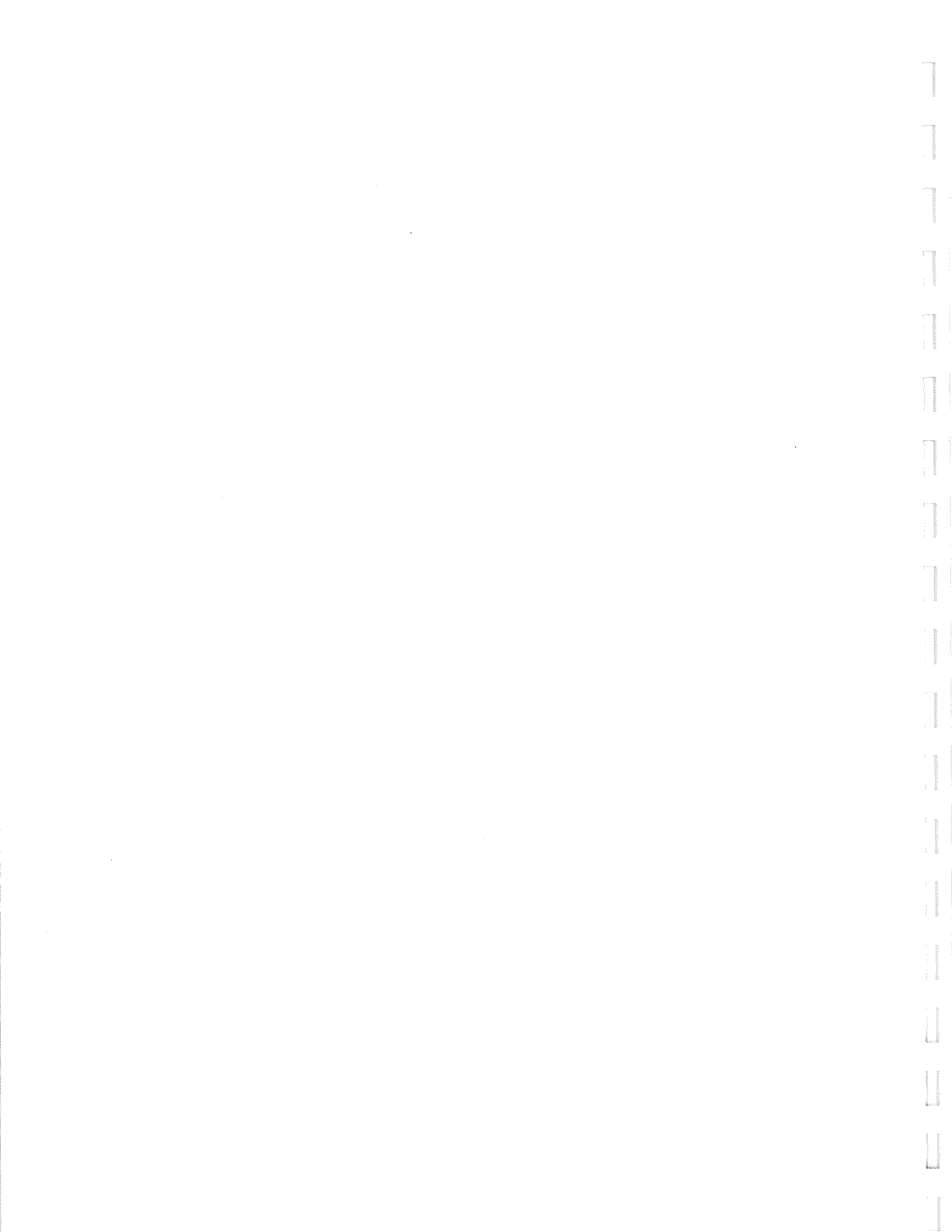
Report Date : 03/02/05

Lab Sample Number : 856629-001

### VOLATILES

Prep Date: 03/01/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 9.2	9.2	31		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 9.0	9.0	30		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 2.0	2.0	6.7		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 4.2	4.2	14		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 7.5	7.5	25		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 5.7	5.7	19		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 7.5	7.5	25		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 7.4	7.4	25		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 9.9	9.9	33		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 9.7	9.7	32		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 9.7	9.7	32		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 8.7	8.7	29		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 5.6	5.6	19		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 8.3	8.3	28		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 3.6	3.6	12		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 4.6	4.6	15		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 8.3	8.3	28		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 8.7	8.7	29		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 6.1	6.1	20		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 9.5	9.5	32		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 6.2	6.2	21		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 8.5	8.5	28		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 7.4	7.4	25		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Benzene	< 4.1	4.1	14		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Bromobenzene	< 8.2	8.2	27		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 9.7	9.7	32		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 5.6	5.6	19		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Bromoform	< 9.4	9.4	31		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Bromomethane	< 9.1	9.1	30		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 4.9	4.9	16		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 4.1	4.1	14		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 8.1	8.1	27		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Chloroethane	< 9.7	9.7	32		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Chloroform	< 3.7	3.7	12		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Chloromethane	< 2.4	2.4	8.0		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 8.3	8.3	28		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 1.9	1.9	6.3		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Dibromomethane	< 6.0	6.0	20		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 9.9	9.9	33		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 7.6	7.6	25		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 5.4	5.4	18		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 7.9	7.9	26		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 6.7	6.7	22		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 5.9	5.9	20		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 4.3	4.3	14		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 6.1	6.1	20		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
Naphthalene	< 7.4	7.4	25		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 9.3	9.3	31		10	ug/L		03/01/05	SW846 5030B	SW846 8260B
n-Propylbenzene	< 8.1	8.1	27		10	ug/L		03/01/05	SW846 5030B	SW846 8260B



## En Chem, Inc. Cooler Receipt Log

Batch No. 855902

Project Name or ID Duorah

No. of Coolers: 1 Temps: ROI

A. Receipt Phase: Date cooler was opened: 2/3/05 By: AB

- |  |                  |                 |                        |
|--|------------------|-----------------|------------------------|
| 1: Were samples received on ice? (Must be ≤ 6 C).....                    | <u>YES</u>       | NO <sup>2</sup> | NA                     |
| 2: Was there a Temperature Blank?.....                                   | <u>YES</u>       | NO              |                        |
| 3: Were custody seals present and intact on cooler? (Record on COC)..... | <u>YES</u>       | NO              |                        |
| 4: Are COC documents present?.....                                       | <u>YES</u>       | NO <sup>2</sup> |                        |
| 5: Does this Project require quick turn around analysis?.....            | YES              | <u>NO</u>       |                        |
| 6: Is there any sub-work?.....   | YES              | <u>NO</u>       |                        |
| 7: Are there any short hold time tests?.....                             | YES              | <u>NO</u>       |                        |
| 8: Are any samples nearing expiration of hold-time? (Within 2 days)..... | YES <sup>1</sup> | <u>NO</u>       | Contacted by/Who _____ |
| 9: Do any samples need to be Filtered or Preserved in the lab?.....      | YES <sup>1</sup> | <u>NO</u>       | Contacted by/Who _____ |

B. Check-in Phase: Date samples were Checked-in: 2/3/05 By: AB

- |   |            |                 |           |
|---|------------|-----------------|-----------|
| 1: Were all sample containers listed on the COC received and intact?.....   | <u>YES</u> | NO <sup>2</sup> | NA        |
| 2: Sign the COC as received by En Chem. Completed.....  | <u>YES</u> | NO              |           |
| 3: Do sample labels match the COC? .....  | <u>YES</u> | NO <sup>2</sup> |           |
| 4: Completed pH check on preserved samples.....<br><i>(This statement does not apply to water: VOC, O&amp;G, TOC, DRO, Total Rec. Phenolics)</i>        | <u>YES</u> | NO              | NA        |
| 5: Do samples have correct chemical preservation?.....<br><i>(This statement does not apply to water: VOC, O&amp;G, TOC, DRO, Total Rec. Phenolics)</i> | <u>YES</u> | NO <sup>2</sup> | NA        |
| 6: Are dissolved parameters field filtered?.....  | YES        | NO <sup>2</sup> | <u>NA</u> |
| 7: Are sample volumes adequate for tests requested? .....   | <u>YES</u> | NO <sup>2</sup> |           |
| 8: Are VOC samples free of bubbles >6mm .....   | <u>YES</u> | NO <sup>2</sup> | NA        |
| 9: Enter samples into logbook. Completed.....   | <u>YES</u> | NO              |           |
| 10: Place laboratory sample number on all containers and COC. Completed.....  | <u>YES</u> | NO              |           |
| 11: Complete Laboratory Tracking Sheet (LTS). Completed.....  | YES        | NO              | <u>NA</u> |
| 12: Start Nonconformance form. ....   | YES        | NO              | <u>NA</u> |
| 13: Initiate Subcontracting procedure. Completed.....   | YES        | NO              | <u>NA</u> |
| 14: Check laboratory sample number on all containers and COC. .... <u>SF</u>  | <u>YES</u> | NO              | NA        |

**Short Hold-time tests:**

24 Hours or less Coliform Corrosivity = pH Dissolved Oxygen Hexavalent Chromium HPC Ferrous Iron Eh Odor Residual Chlorine Sulfite	48 Hours BOD Color Nitrite or Nitrate Ortho Phosphorus Surfactants Turbidity En Core Preservation Power stop preservation	7 days Ash Aqueous Extractable Organics- ALL Flashpoint Free Liquids Sulfide TDS TSS Total Solids TVS TVSS Unpreserved VOC's	Footnotes 1 Notify proper lab group immediately. 2 Complete nonconformance memo.
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Rev. 2/05/04, Attachment to 1-REC-5.  
Subject to QA Audit.

Reviewed by/date W<sup>2</sup>/7/05

## Qualifier Codes

Flag	Applies To	Explanation
A	Inorganic	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
B	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
B	Organic	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	All	Elevated detection limit.
D	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
E	Inorganic	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 50 times the IDL for analysis done on the ICP or 100 times the IDL for analysis done on the ICP-MS. The result was flagged with the E qualifier to indicate that a physical interference was observed.
E	Organic	Analyte concentration exceeds calibration range.
F	Inorganic	Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
F	Organic	Surrogate results outside control criteria.
H	All	Preservation, extraction or analysis performed past holding time.
HF	Inorganic	This test is considered a field parameter, and the recommended holding time is 15 minutes from collection. The analysis was performed in the laboratory beyond the recommended holding time.
J	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
J	Organic	Concentration detected is greater than the method detection limit but less than the reporting limit.
K	Inorganic	Sample received unpreserved. Sample was either preserved at the time of receipt or at the time of sample preparation.
K	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
L	All	Elevated detection limit due to low sample volume.
M	Organic	Sample pH was greater than 2
N	All	Spiked sample recovery not within control limits.
O	Organic	Sample received overweight.
P	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	Organic	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
U	All	The analyte was not detected at or above the reporting limit.
V	All	Sample received with headspace.
W	All	A second aliquot of sample was analyzed from a container with headspace.
X	All	See Sample Narrative.
&	All	Laboratory Control Spike recovery not within control limits.
*	All	Precision not within control limits.
<	All	The analyte was not detected at or above the reporting limit.
1	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
2	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
3	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
4	Inorganic	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
5	Inorganic	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
6	Inorganic	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
7	Inorganic	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.

# En Chem

## Analytical Report Number: 855902

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW  
Project Name : DECORAH  
Project Number : WI001054.0001  
Field ID : TRIP BLANK

Matrix Type : WATER  
Collection Date : 02/02/05  
Report Date : 02/16/05  
Lab Sample Number : 855902-011

### VOLATILES

Prep Date: 02/08/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 0.92	0.92	3.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.67		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 0.75	0.75	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 0.74	0.74	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 0.99	0.99	3.3		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 0.61	0.61	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 0.62	0.62	2.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 0.85	0.85	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 0.74	0.74	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromobenzene	< 0.82	0.82	2.7		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromoform	< 0.94	0.94	3.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromomethane	< 0.91	0.91	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Dibromomethane	< 0.60	0.60	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 0.76	0.76	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 0.67	0.67	2.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 0.59	0.59	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 0.43	0.43	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 0.93	0.93	3.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
n-Propylbenzene	< 0.81	0.81	2.7		1	ug/L		02/08/05	SW846 5030B	SW846 8260B

# En Chem

## Analytical Report Number: 855902

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : MW-13

Matrix Type : WATER

Collection Date : 02/02/05

Report Date : 02/16/05

Lab Sample Number : 855902-010

### INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Arsenic - Dissolved	0.69	0.30	1.0		1	ug/L	Q	02/09/05	SW846 3020A	SW846 6020
Barium - Dissolved	390	0.11	0.36		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Cadmium - Dissolved	0.42	0.28	0.95		1	ug/L	Q	02/04/05	SW846 6010B	SW846 6010B
Chromium - Dissolved	0.92	0.52	1.7		1	ug/L	Q	02/04/05	SW846 6010B	SW846 6010B
Iron - Dissolved	22	17	55		1	ug/L	Q	02/04/05	SW846 6010B	SW846 6010B
Lead - Dissolved	< 1.5	1.5	5.1		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Manganese - Dissolved	41	0.14	0.48		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Mercury - Dissolved	< 0.028	0.028	0.093		1	ug/L		02/15/05	SW846 7470A	SW846 7470A
Selenium - Dissolved	4.6	0.47	1.6		1	ug/L		02/09/05	SW846 3020A	SW846 6020
Silver - Dissolved	< 0.57	0.57	1.9		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Bromide	0.57	0.10	0.33		1	mg/L		02/08/05	EPA 300.0	EPA 300.0

### VOLATILES

Prep Date: 02/09/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 9.2	9.2	31		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 9.0	9.0	30		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 2.0	2.0	6.7		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 4.2	4.2	14		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 7.5	7.5	25		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 5.7	5.7	19		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 7.5	7.5	25		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 7.4	7.4	25		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 9.9	9.9	33		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 9.7	9.7	32		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 9.7	9.7	32		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 8.7	8.7	29		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 5.6	5.6	19		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 8.3	8.3	28		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 3.6	3.6	12		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 4.6	4.6	15		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 8.3	8.3	28		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 8.7	8.7	29		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 6.1	6.1	20		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 9.5	9.5	32		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 6.2	6.2	21		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 8.5	8.5	28		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 7.4	7.4	25		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
Benzene	< 4.1	4.1	14		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
Bromobenzene	< 8.2	8.2	27		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 9.7	9.7	32		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 5.6	5.6	19		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
Bromoform	< 9.4	9.4	31		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
Bromomethane	< 9.1	9.1	30		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 4.9	4.9	16		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 4.1	4.1	14		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 8.1	8.1	27		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
Chloroethane	< 9.7	9.7	32		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
Chloroform	< 3.7	3.7	12		10	ug/L		02/09/05	SW846 5030B	SW846 8260B
Chloromethane	< 2.4	2.4	8.0		10	ug/L		02/09/05	SW846 5030B	SW846 8260B



# En Chem

## Analytical Report Number: 855902

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : MP-9

Matrix Type : WATER

Collection Date : 02/02/05

Report Date : 02/16/05

Lab Sample Number : 855902-009

### INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Arsenic - Dissolved	0.33	0.30	1.0		1	ug/L	Q	02/09/05	SW846 3020A	SW846 6020
Barium - Dissolved	160	0.11	0.36		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Cadmium - Dissolved	< 0.28	0.28	0.95		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Chromium - Dissolved	0.75	0.52	1.7		1	ug/L	Q	02/04/05	SW846 6010B	SW846 6010B
Iron - Dissolved	< 17	17	55		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Lead - Dissolved	< 1.5	1.5	5.1		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Manganese - Dissolved	13	0.14	0.48		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Mercury - Dissolved	< 0.028	0.028	0.093		1	ug/L		02/15/05	SW846 7470A	SW846 7470A
Selenium - Dissolved	2.6	0.47	1.6		1	ug/L		02/09/05	SW846 3020A	SW846 6020
Silver - Dissolved	< 0.57	0.57	1.9		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Bromide	0.24	0.10	0.33		1	mg/L	Q	02/08/05	EPA 300.0	EPA 300.0

### VOLATILES

Prep Date: 02/08/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 0.92	0.92	3.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.67		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 0.75	0.75	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 0.74	0.74	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 0.99	0.99	3.3		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 0.61	0.61	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 0.62	0.62	2.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 0.85	0.85	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 0.74	0.74	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromobenzene	< 0.82	0.82	2.7		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromoform	< 0.94	0.94	3.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromomethane	< 0.91	0.91	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		02/08/05	SW846 5030B	SW846 8260B

# En Chem

## Analytical Report Number: 855902

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : MP-8

Matrix Type : WATER

Collection Date : 02/02/05

Report Date : 02/16/05

Lab Sample Number : 855902-008

### INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Arsenic - Dissolved	0.38	0.30	1.0		1	ug/L	Q	02/09/05	SW846 3020A	SW846 6020
Barium - Dissolved	190	0.11	0.36		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Cadmium - Dissolved	< 0.28	0.28	0.95		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Chromium - Dissolved	0.91	0.52	1.7		1	ug/L	Q	02/04/05	SW846 6010B	SW846 6010B
Iron - Dissolved	< 17	17	55		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Lead - Dissolved	< 1.5	1.5	5.1		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Manganese - Dissolved	14	0.14	0.48		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Mercury - Dissolved	< 0.028	0.028	0.093		1	ug/L		02/15/05	SW846 7470A	SW846 7470A
Selenium - Dissolved	3.5	0.47	1.6		1	ug/L		02/09/05	SW846 3020A	SW846 6020
Silver - Dissolved	< 0.57	0.57	1.9		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Bromide	0.27	0.10	0.33		1	mg/L	Q	02/08/05	EPA 300.0	EPA 300.0

### VOLATILES

Prep Date: 02/08/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 0.92	0.92	3.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.67		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 0.75	0.75	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 0.74	0.74	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 0.99	0.99	3.3		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 0.61	0.61	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 0.62	0.62	2.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 0.85	0.85	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 0.74	0.74	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromobenzene	< 0.82	0.82	2.7		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromoform	< 0.94	0.94	3.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromomethane	< 0.91	0.91	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		02/08/05	SW846 5030B	SW846 8260B

# En Chem

## Analytical Report Number: 855902

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : MP-7

Matrix Type : WATER

Collection Date : 02/01/05

Report Date : 02/16/05

Lab Sample Number : 855902-007

### INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Arsenic - Dissolved	0.55	0.30	1.0		1	ug/L	Q	02/09/05	SW846 3020A	SW846 6020
Barium - Dissolved	210	0.11	0.36		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Cadmium - Dissolved	0.32	0.28	0.95		1	ug/L	Q	02/04/05	SW846 6010B	SW846 6010B
Chromium - Dissolved	0.93	0.52	1.7		1	ug/L	Q	02/04/05	SW846 6010B	SW846 6010B
Iron - Dissolved	< 17	17	55		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Lead - Dissolved	< 1.5	1.5	5.1		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Manganese - Dissolved	5.8	0.14	0.48		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Mercury - Dissolved	< 0.028	0.028	0.093		1	ug/L		02/15/05	SW846 7470A	SW846 7470A
Selenium - Dissolved	3.2	0.47	1.6		1	ug/L		02/09/05	SW846 3020A	SW846 6020
Silver - Dissolved	< 0.57	0.57	1.9		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Bromide	0.29	0.10	0.33		1	mg/L	Q	02/08/05	EPA 300.0	EPA 300.0

### VOLATILES

Prep Date: 02/08/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 0.92	0.92	3.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.67		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 0.75	0.75	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 0.74	0.74	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 0.99	0.99	3.3		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 0.61	0.61	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 0.62	0.62	2.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 0.85	0.85	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 0.74	0.74	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromobenzene	< 0.82	0.82	2.7		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromoform	< 0.94	0.94	3.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromomethane	< 0.91	0.91	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		02/08/05	SW846 5030B	SW846 8260B

# En Chem

## Analytical Report Number: 855902

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : MP-6

Matrix Type : WATER

Collection Date : 02/01/05

Report Date : 02/16/05

Lab Sample Number : 855902-006

### INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Arsenic - Dissolved	0.56	0.30	1.0		1	ug/L	Q	02/09/05	SW846 3020A	SW846 6020
Barium - Dissolved	240	0.11	0.36		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Cadmium - Dissolved	< 0.28	0.28	0.95		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Chromium - Dissolved	0.60	0.52	1.7		1	ug/L	Q	02/04/05	SW846 6010B	SW846 6010B
Iron - Dissolved	< 17	17	55		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Lead - Dissolved	< 1.5	1.5	5.1		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Manganese - Dissolved	13	0.14	0.48		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Mercury - Dissolved	< 0.028	0.028	0.093		1	ug/L		02/15/05	SW846 7470A	SW846 7470A
Selenium - Dissolved	3.9	0.47	1.6		1	ug/L		02/09/05	SW846 3020A	SW846 6020
Silver - Dissolved	< 0.57	0.57	1.9		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Bromide	0.32	0.10	0.33		1	mg/L	Q	02/08/05	EPA 300.0	EPA 300.0

### VOLATILES

Prep Date: 02/08/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 0.92	0.92	3.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.67		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 0.75	0.75	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 0.74	0.74	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 0.99	0.99	3.3		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 0.61	0.61	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 0.62	0.62	2.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 0.85	0.85	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 0.74	0.74	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromobenzene	< 0.82	0.82	2.7		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromoform	< 0.94	0.94	3.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromomethane	< 0.91	0.91	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		02/08/05	SW846 5030B	SW846 8260B

# En Chem

## Analytical Report Number: 855902

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : MP-5

Matrix Type : WATER

Collection Date : 02/01/05

Report Date : 02/16/05

Lab Sample Number : 855902-005

### INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Arsenic - Dissolved	0.54	0.30	1.0		1	ug/L	Q	02/09/05	SW846 3020A	SW846 6020
Barium - Dissolved	170	0.11	0.36		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Cadmium - Dissolved	< 0.28	0.28	0.95		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Chromium - Dissolved	< 0.52	0.52	1.7		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Iron - Dissolved	< 17	17	55		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Lead - Dissolved	< 1.5	1.5	5.1		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Manganese - Dissolved	5.4	0.14	0.48		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Mercury - Dissolved	< 0.028	0.028	0.093		1	ug/L		02/15/05	SW846 7470A	SW846 7470A
Selenium - Dissolved	3.1	0.47	1.6		1	ug/L		02/09/05	SW846 3020A	SW846 6020
Silver - Dissolved	< 0.57	0.57	1.9		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Bromide	0.19	0.10	0.33		1	mg/L	Q	02/08/05	EPA 300.0	EPA 300.0

### VOLATILES

Prep Date: 02/08/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 0.92	0.92	3.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.67		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 0.75	0.75	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 0.74	0.74	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 0.99	0.99	3.3		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 0.61	0.61	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 0.62	0.62	2.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 0.85	0.85	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 0.74	0.74	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromobenzene	< 0.82	0.82	2.7		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromoform	< 0.94	0.94	3.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromomethane	< 0.91	0.91	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		02/08/05	SW846 5030B	SW846 8260B

# En Chem

## Analytical Report Number: 855902

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : MP-4

Matrix Type : WATER

Collection Date : 02/01/05

Report Date : 02/16/05

Lab Sample Number : 855902-004

### INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Arsenic - Dissolved	0.66	0.30	1.0		1	ug/L	Q	02/09/05	SW846 3020A	SW846 6020
Barium - Dissolved	190	0.11	0.36		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Cadmium - Dissolved	< 0.28	0.28	0.95		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Chromium - Dissolved	0.84	0.52	1.7		1	ug/L	Q	02/04/05	SW846 6010B	SW846 6010B
Iron - Dissolved	< 17	17	55		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Lead - Dissolved	< 1.5	1.5	5.1		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Manganese - Dissolved	7.5	0.14	0.48		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Mercury - Dissolved	< 0.028	0.028	0.093		1	ug/L		02/15/05	SW846 7470A	SW846 7470A
Selenium - Dissolved	3.7	0.47	1.6		1	ug/L		02/09/05	SW846 3020A	SW846 6020
Silver - Dissolved	< 0.57	0.57	1.9		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Bromide	0.23	0.10	0.33		1	mg/L	Q	02/08/05	EPA 300.0	EPA 300.0

### VOLATILES

Prep Date: 02/08/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 0.92	0.92	3.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.67		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 0.75	0.75	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 0.74	0.74	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 0.99	0.99	3.3		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 0.61	0.61	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 0.62	0.62	2.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 0.85	0.85	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 0.74	0.74	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromobenzene	< 0.82	0.82	2.7		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromoform	< 0.94	0.94	3.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromomethane	< 0.91	0.91	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		02/08/05	SW846 5030B	SW846 8260B

# En Chem

## Analytical Report Number: 855902

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : MP-3

Matrix Type : WATER

Collection Date : 02/01/05

Report Date : 02/16/05

Lab Sample Number : 855902-003

### INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Arsenic - Dissolved	0.58	0.30	1.0		1	ug/L	Q	02/09/05	SW846 3020A	SW846 6020
Barium - Dissolved	140	0.11	0.36		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Cadmium - Dissolved	< 0.28	0.28	0.95		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Chromium - Dissolved	0.74	0.52	1.7		1	ug/L	Q	02/04/05	SW846 6010B	SW846 6010B
Iron - Dissolved	< 17	17	55		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Lead - Dissolved	< 1.5	1.5	5.1		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Manganese - Dissolved	3.9	0.14	0.48		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Mercury - Dissolved	< 0.028	0.028	0.093		1	ug/L		02/15/05	SW846 7470A	SW846 7470A
Selenium - Dissolved	3.1	0.47	1.6		1	ug/L		02/09/05	SW846 3020A	SW846 6020
Silver - Dissolved	< 0.57	0.57	1.9		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Bromide	< 0.10	0.10	0.33		1	mg/L		02/08/05	EPA 300.0	EPA 300.0

### VOLATILES

Prep Date: 02/08/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 0.92	0.92	3.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.67		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 0.75	0.75	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 0.74	0.74	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 0.99	0.99	3.3		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 0.61	0.61	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 0.62	0.62	2.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 0.85	0.85	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 0.74	0.74	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromobenzene	< 0.82	0.82	2.7		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromoform	< 0.94	0.94	3.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromomethane	< 0.91	0.91	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		02/08/05	SW846 5030B	SW846 8260B

# En Chem

A Division of Pace Analytical Services, Inc.

## Analytical Report Number: 855902

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : MP-2

Matrix Type : WATER

Collection Date : 02/01/05

Report Date : 02/16/05

Lab Sample Number : 855902-002

### INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Arsenic - Dissolved	0.36	0.30	1.0		1	ug/L	Q	02/09/05	SW846 3020A	SW846 6020
Barium - Dissolved	190	0.11	0.36		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Cadmium - Dissolved	< 0.28	0.28	0.95		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Chromium - Dissolved	0.96	0.52	1.7		1	ug/L	Q	02/04/05	SW846 6010B	SW846 6010B
Iron - Dissolved	< 17	17	55		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Lead - Dissolved	< 1.5	1.5	5.1		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Manganese - Dissolved	4.7	0.14	0.48		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Mercury - Dissolved	< 0.028	0.028	0.093		1	ug/L		02/15/05	SW846 7470A	SW846 7470A
Selenium - Dissolved	2.8	0.47	1.6		1	ug/L		02/09/05	SW846 3020A	SW846 6020
Silver - Dissolved	< 0.57	0.57	1.9		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Bromide	0.27	0.10	0.33		1	mg/L	Q	02/08/05	EPA 300.0	EPA 300.0

### VOLATILES

Prep Date: 02/08/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 0.92	0.92	3.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.67		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		02/08/05	SW846 5Q30B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 0.75	0.75	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 0.74	0.74	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 0.99	0.99	3.3		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 0.61	0.61	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 0.62	0.62	2.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 0.85	0.85	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 0.74	0.74	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromobenzene	< 0.82	0.82	2.7		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromoform	< 0.94	0.94	3.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromomethane	< 0.91	0.91	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		02/08/05	SW846 5030B	SW846 8260B



# En Chem

## Analytical Report Number: 855902

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : ARCADIS G & M - MILW

Project Name : DECORAH

Project Number : WI001054.0001

Field ID : MP-1

Matrix Type : WATER

Collection Date : 02/01/05

Report Date : 02/16/05

Lab Sample Number : 855902-001

### INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Arsenic - Dissolved	0.65	0.30	1.0		1	ug/L	Q	02/09/05	SW846 3020A	SW846 6020
Barium - Dissolved	270	0.11	0.36		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Cadmium - Dissolved	< 0.28	0.28	0.95		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Chromium - Dissolved	0.88	0.52	1.7		1	ug/L	Q	02/04/05	SW846 6010B	SW846 6010B
Iron - Dissolved	< 17	17	55		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Lead - Dissolved	< 1.5	1.5	5.1		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Manganese - Dissolved	10	0.14	0.48		1	ug/L		02/04/05	SW846 6010B	SW846 6010B
Mercury - Dissolved	< 0.028	0.028	0.093		1	ug/L		02/15/05	SW846 7470A	SW846 7470A
Selenium - Dissolved	4.0	0.47	1.6		1	ug/L		02/09/05	SW846 3020A	SW846 6020
Silver - Dissolved	< 1.1	1.1	3.8		2	ug/L	N	02/07/05	SW846 6010B	SW846 6010B
Bromide	0.32	0.10	0.33		1	mg/L	Q	02/08/05	EPA 300.0	EPA 300.0

### VOLATILES

Prep Date: 02/08/05

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 0.92	0.92	3.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.67		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 0.75	0.75	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 0.74	0.74	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 0.99	0.99	3.3		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 0.83	0.83	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 0.61	0.61	2.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 0.62	0.62	2.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 0.85	0.85	2.8		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 0.74	0.74	2.5		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromobenzene	< 0.82	0.82	2.7		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromoform	< 0.94	0.94	3.1		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Bromomethane	< 0.91	0.91	3.0		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		02/08/05	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		02/08/05	SW846 5030B	SW846 8260B