

# Terracon

Consulting Engineers & Scientists

Terracon Consultants, Inc.  
3011B East Capitol Drive  
Appleton, Wisconsin 54911  
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www.terracon.com

March 2, 2006

Ms. Annette Weisbach  
Wisconsin Department of Natural Resources  
P.O. Box 10448  
Green Bay, Wisconsin 54307-0448



Re: Limited Site Assessment Report and  
Off-Site Liability Exemption Application  
Parkview Haven Apartments  
1325 North 8<sup>th</sup> Street  
Manitowoc, Manitowoc County, Wisconsin  
Terracon Project No. 38057027

Dear Ms. Weissbach:

On behalf of our client, Intra-City Parishes of Manitowoc, Inc. ("client") and Housing Management Services, the property manager of the Parkview Haven Apartments ("site"), Terracon Consultants, Inc. (Terracon) is pleased to submit the enclosed Limited Site Assessment (LSA) Report and Off-Site Liability Exemption Application for the above-referenced site.

The enclosed LSA Report provides a summary of site assessment activities and analytical data obtained by Terracon in response to the detection of tetrachloroethene ("PCE") in groundwater samples collected at the site. Based on results of the soil and groundwater samples collected by Terracon from the site and from the adjacent site to the north (United Drycleaners), it appears that PCE-impacted groundwater has migrated from United Drycleaner's property onto Parkview Haven Apartment's property. Terracon respectfully requests that the Wisconsin Department of Natural Resources (WDNR) issue a liability clarification letter, which clarifies that Intra-City Parishes of Manitowoc, Inc. is not liable to assess and/or cleanup the PCE impacts that have migrated onto their property.

Parkview Haven LSA  
Terracon Project No. 38057027  
March 2, 2006

**Terracon**

Please also find enclosed, Terracon's check No. 0149539 in the amount of \$500.00 to complete your review and if approved, prepare the requested liability clarification letter.

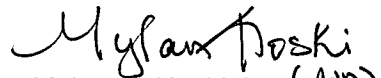
Please contact our office if you have questions or require additional information.

Sincerely,

**Terracon**



Brett A. Losey  
Environmental Scientist



Mylan A. Koski Jr. (APD)  
Senior Project Manager

Enclosures: LSA Report  
Off-Site Liability Exemption Application  
Check No. 0149539

Copies To: Ken DePouw, Housing Management Services  
File

LIMITED SITE ASSESSMENT REPORT AND  
OFF-SITE LIABILITY EXEMPTION APPLICATION  
PARKVIEW HAVEN APARTMENTS  
1325 NORTH 8<sup>th</sup> STREET  
MANITOWOC, MANITOWOC COUNTY, WISCONSIN

Terracon Project No. 38057027  
March 2, 2006



*Prepared for:*

INTRA-CITY PARISHES OF MANITOWOC, INC.  
c/o HOUSING MANAGEMENT SERVICES

200 BRAZEAU AVENUE  
OCONTO, WISCONSIN 54153

*Prepared by:*

**Terracon**  
Appleton, Wisconsin

**Terracon**

March 2, 2006



Ms. Annette Weisbach  
Wisconsin Department of Natural Resources  
P.O. Box 10448  
Green Bay, Wisconsin 54307-0448

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Please contact our office if you have questions or require additional information.

Sincerely,

**Terracon**

Brett A. Losey  
Environmental Scientist

Mylan A. Koski Jr. CAP  
Senior Project Manager

BAL/MAK/BRS:bal/n:\N:\2005\38057027.Parkview Haven LSA\057027.ParkviewLSA.doc

Copies to: Ken DePouw, Housing Management Services  
File

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**LIMITED SITE ASSESSMENT REPORT AND  
OFF-SITE LIABILITY EXEMPTION APPLICATION**

**PARKVIEW HAVEN APARTMENTS  
1325 NORTH 8<sup>th</sup> STREET  
MANITOWOC, MANITOWOC COUNTY, WISCONSIN**

**TERRACON PROJECT NO. 38057027  
MARCH 2, 2006**

**INTRODUCTION**

Terracon Consultants Inc. (Terracon) conducted Limited Site Assessment (LSA) activities at the Parkview Haven Apartments located at 1325 North 8<sup>th</sup> Street in Manitowoc, Manitowoc County, Wisconsin (see Figure 1). The LSA activities were completed in response to the results of Terracon's Phase I Environmental Site Assessment (Phase I ESA), Terracon Project No. 38057711, dated August 3, 2005, which identified the following recognized environmental condition (REC):

- United Drycleaners located on the adjacent property to the north of the site

The objectives of the LSA activities were to collect soil and groundwater samples to analyze for the presence of volatile organic compounds (VOC) potentially originating from dry cleaning activities at the adjacent property to the north. The assessment activities summarized within this report were performed in accordance with Terracon's Proposal No. 3805109R and Terracon's Supplemental Proposal No. 3805160R dated August 31, 2005 and January 5, 2006, respectfully.

**BACKGROUND**

Historical information gathered during the Phase I ESA performed by Terracon, identified the Parkview Haven Retirement Community apartment building was constructed in 1978. Prior to its construction the site appears to have been used as residential property and farmland. A dry cleaner (United Drycleaners) was identified adjacent to the north of the site since sometime prior to at least 1980 until present. The presence of the dry cleaners and potential for soil and groundwater impacts as a result of a release from the facility constituted a REC to the Parkview Haven Apartments facility.

## **SCOPE OF SERVICES**

Per recommendations included within Terracon's August 3, 2005 Phase I ESA report, two soil borings were advanced at the approximate locations shown on Figure 2, to assess soil and/or groundwater impacts as a result of a potential release from United Drycleaners on October 18, 2005. Results of the groundwater samples collected from the borings identified tetrachloroethene ("PCE") in each sample above its NR 140, Wisconsin Administrative Code (WAC), Enforcement Standard (ES). The detections of PCE in groundwater were reported to the Wisconsin Department of Natural Resources (WDNR) via submission of a Notification of Hazardous Substances Discharge, which was submitted to the WDNR on November 8, 2005. Terracon subsequently contacted the WDNR to discuss the possibility of obtaining an exemption for the impacts that were likely a result of a release from the adjacent United Drycleaner's property. However, the WDNR in turn responded that the source of the impacts be assessed, including collection of soil and/or groundwater samples, to verify the source of the PCE-impacted groundwater at the subject site. In order to better assess the potential source of PCE-impacted groundwater, Terracon obtained access from United Drycleaners to advance a soil boring and install a permanent groundwater monitoring well. Terracon mobilized to the site on January 25, 2006 to install the permanent monitoring well (MW-1). Soil samples were collected during the advancement of the boring and groundwater samples were collected from the monitoring well upon completion of its installation. The following sections provide details regarding assessment activities completed on both Parkview Haven Apartment's property and United Drycleaner's property.

## **FIELD ACTIVITIES**

### **Temporary Monitoring Well Installations**

Terracon initially mobilized to the site on October 18, 2005 to advance two soil borings, B-1 and B-2. The borings were advanced at the approximate locations depicted on Figure 2. The borings were advanced to assess soil and groundwater impacts potentially resulting from current and historic dry cleaning activities at the adjacent property to the north of the site.

Borings B-1 and B-2 were advanced to a depth of approximately 55 and 50 feet below ground surface (bgs), respectfully. Both borings were advanced using hollow stem auger (HSA) drilling methods with a truck-mounted drilling rig. Soil samples were collected at approximate 5-foot intervals until groundwater was encountered. The soil samples were collected using an 18-inch long, 2-inch diameter split-spoon barrel sampler. Soil types and characteristics were logged and a discrete sample was collected at each 5-foot interval. Soil samples were screened on-site for volatile organic compounds using a photoionization detector (PID). Prior to use, the PID was calibrated per the manufacture's specifications



utilizing isobutylene calibration gas at a concentration of 100 parts per million (ppm). PID screening results did not indicate elevated readings of volatile organic compounds in the soil samples screened on site.

Based on the lack of elevated PID readings in the soil samples screened on site, Terracon collected one unsaturated soil sample from above the groundwater table from each boring for laboratory analysis. Soil samples collected for laboratory analysis were placed into laboratory-supplied containers, transferred to an ice chest to cool to four degrees Celsius (4°C), and transported under chain-of-custody protocol to Synergy Environmental Laboratories, Inc. of Appleton, Wisconsin.

At the terminal depth of each boring, a new temporary 2-inch diameter polyvinyl chloride (PVC) well screen was installed. Groundwater elevations were recorded to the nearest 0.01 feet using an electronic water level indicator. The water level indicator was decontaminated between each measurement location using methanol. Following the collection of groundwater elevation data, new disposable polyethylene tubing was inserted into the temporary well screens and the wells were purged and sampled using a peristaltic pump.

Groundwater samples collected for laboratory analysis were placed into laboratory-supplied containers, transferred to an ice chest to cool to 4°C, and transported under chain-of-custody protocol to Synergy Environmental Laboratories, Inc. of Appleton, Wisconsin. Each groundwater sample was submitted for analysis of VOCs.

Following completion of sampling activities, the boreholes and temporary well screens were abandoned per requirements of NR 141, Wisconsin, WAC. A summary of detected compounds in soil and groundwater are included as Tables 1 and 2, respectively. Boring logs and abandonment forms are attached as Appendix C. Laboratory analytical reports are attached as Appendix D.

### **Permanent Monitoring Well Installation**

Based on the detection of PCE in the groundwater samples collected from the temporary monitoring wells, B-1 and B-2, Terracon subsequently obtained access from United Drycleaners to install a permanent monitoring well (MW-1) on their property. The monitoring well was installed to enable collection of groundwater samples nearer United Drycleaners, the suspected source of the PCE impacts, to assess soil and groundwater adjacent. Upon obtaining site access, Terracon mobilized to United Drycleaner's property on January 25, 2006 to install monitoring well MW-1 at the approximate location depicted on Figure 2.



Monitoring well MW-1 was installed by advancing HSAs to a depth of approximately 57.5 feet bgs, approximately seven feet below the groundwater table surface. Soil samples were collected at approximate 5-foot intervals until groundwater was encountered. The soil samples were collected using an 18-inch long, 2-inch diameter split-spoon barrel sampler. Soil types and characteristics were logged and a discrete sample was collected at each 5-foot interval. Soil samples were screened on site for volatile organic compounds using a PID. Prior to use, the PID was calibrated per the manufacture's specifications utilizing isobutylene calibration gas at a concentration of 100 ppm.

Based on the detection of elevated PID measurements in soil samples collected from near surface to approximately 20 feet bgs, Terracon collected one soil sample interval from approximately 3 to 5 feet bgs, identified as MW-1(3-5) and 18 to 20 feet bgs, identified as MW-1(18-20) for laboratory analysis. Soil samples collected for laboratory analysis were placed into laboratory-supplied containers, transferred to an ice chest to cool to four degrees Celsius (4°C), and transported under chain-of-custody protocol to Synergy Environmental Laboratories, Inc. of Appleton, Wisconsin.

Upon reaching the terminal depth of the boring, a 2-inch diameter, 10-foot, No. 10-slot PVC well screen was installed from approximately 47 to 57 feet bgs to intersect the groundwater table. Monitoring well MW-1 was completed with thread-coupled 2-inch diameter PVC riser pipe and constructed with a flush-mount protective cover per NR 141, WAC. Upon installing MW-1, the monitoring well was developed according to NR 141, WAC. Groundwater elevations were recorded to the nearest 0.01 feet using an electronic water level indicator. The water level indicator was decontaminated prior to measurement of the static groundwater elevation in MW-1 using methanol. Following the collection of groundwater elevation data, a new disposable bailer was used to collect a groundwater sample from MW-1.

The groundwater sample collected from MW-1 for laboratory analysis was placed into laboratory-supplied containers, transferred to an ice chest to cool to 4°C, and transported under chain-of-custody protocol to Synergy Environmental Laboratories, Inc. of Appleton, Wisconsin. The groundwater sample was submitted for analysis of VOCs.

A summary of detected compounds in the soil and groundwater samples are included as Tables 1 and 2, respectively. The soil boring log including PID screening results, well installation report, and well development form are attached as Appendix C. Laboratory analytical reports are attached as Appendix D.

## **RESULTS AND DISCUSSION**

### **Soil Analytical Data**

The laboratory analytical report for the soil sample collected from approximately 45 feet bgs from B-1, indicates that PCE was detected at a concentration of 0.027 milligrams per kilogram (mg/kg). However, the detected concentration of PCE is between the laboratory's limit of detection (LOD) and limit of quantification (LOQ). Remaining analytes were not detected above laboratory method detection limits (MDL) in the soil sample submitted for laboratory analysis from boring B-1. Laboratory analytical data for the soil sample submitted from approximately 40 feet bgs from B-2, indicates that analytes were not detected above MDLs.

The laboratory analytical report for the soil sample identified as MW-1(3-5) indicates that PCE was detected at a concentration of 4.1 mg/kg, which is above its NR 140, 720.19, Non-Industrial Direct Contact and Protection of Groundwater, Site-Specific Residual Contaminant Levels (SSRCL). Laboratory analytical data for the soil sample identified as MW-1(18-20) indicates that PCE was detected at a concentration of 0.164 mg/kg, which is above its NR 140, 720.19, Protection of Groundwater, SSRCL.

### **Groundwater Analytical Data**

Laboratory analytical data for the groundwater sample collected from the temporary well installed in boring B-1 indicates the presence of PCE at a concentration of 11 micrograms per liter ( $\mu\text{g/L}$ ), which is above the NR 140, WAC, Enforcement Standard (ES). Remaining analytes were not detected above laboratory MDLs in the groundwater sample collected from this location.

Analytical results for the groundwater sample collected from the temporary well installed in boring B-2 indicates the presence of PCE at a concentration of 5.6  $\mu\text{g/L}$ , which is above the NR 140, WAC, ES. Benzene and toluene were also detected at concentrations of 0.44  $\mu\text{g/L}$  and 0.00055  $\mu\text{g/L}$ , respectively. However, both concentrations are between the laboratory's LOD and LOQ. The source of the benzene and toluene impacts may be from a closed leaking underground storage tank (LUST) project at the Former Unimart gasoline station (WDNR BRRTS # 03-36-129838), located approximately 700 feet upgradient from the site as shown on Figure 3.. This project was identified during completion of Terracon's Phase I ESA, Terracon Project No. 38057711, dated August 3, 2005.

Laboratory analytical data for the groundwater sample collected from MW-1 indicates the presence of PCE at a concentration of 180  $\mu\text{g/L}$ , which is above the NR 140, WAC,

Enforcement Standard (ES). Remaining analytes were not detected above laboratory MDLs in the groundwater sample collected from MW-1.

## **SUMMARY AND RECOMMENDATIONS**

Analytical data from the soil samples collected during advancement of soil borings B-1 and B-2 on the Parkview Haven Apartments property did not result in detection of PCE above laboratory MDLs. Analytical data from the groundwater samples collected from the temporary wells installed within borings B-1 and B-2 indicate detection of PCE at 11 µg/L and 5.6 µg/L, respectively. The detected concentrations of PCE in groundwater are above its NR 141, WAC, ES of 5 µg/L. Benzene and toluene were also detected in the groundwater sample collected from B-2, however, the resultant concentrations were both between laboratory LODs and LOQs. The source of the benzene and toluene impacts is unknown, but may be associated with a LUST project at a gasoline station located approximately 700 feet upgradient from the site. Documentation obtained from the WDNR's Geographic Information System (GIS) Registry regarding this closed LUST site, indicates that the direction of groundwater flow at the site is from north to south. This documented direction of groundwater flow is supported by the groundwater analytical data collected by Terracon, which indicates that PCE in groundwater impacts are higher near United Drycleaners than on Parkview Haven Apartments property. PCE impacts are most likely attributed to dry cleaning activities at the dry cleaner located adjacent to the north of the site.

Analytical data from the soil samples collected during advancement of the soil boring utilized to install MW-1 indicated detection of PCE at concentrations of 4.1 mg/kg and 0.164 mg/kg, respectively within soil samples collected from 3 to 5 feet bgs and 18 to 20 feet bgs. The detected concentrations of PCE in soil are above NR 720.19, WAC, Non-Industrial and Protection of Groundwater, SSRCLs. Analytical data from the groundwater sample collected from MW-1 indicate detection of PCE at a concentration of 180 µg/L, which is above the NR 140, WAC, ES of 5 µg/L.

Based upon analytical data obtained during this assessment, Terracon respectfully requests that the Wisconsin Department of Natural Resources (WDNR) issue a liability clarification letter, which clarifies that Intra-City Parishes of Manitowoc, Inc. is not liable to assess and/or cleanup the PCE impacts that have migrated onto their property.

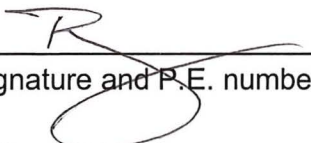
## **GENERAL COMMENTS**

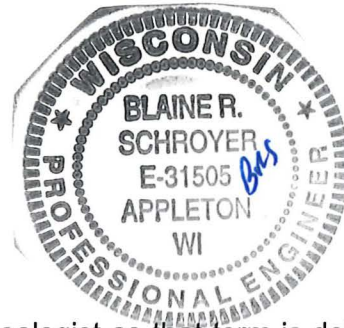
The analysis and opinions expressed in this report are based upon data obtained from the laboratory chemical analyses at the indicated locations or from other information discussed in this report. This report does not reflect variations in subsurface stratigraphy, hydrogeology, and contaminant distribution which may occur across the site. Actual subsurface conditions

may vary and may not become evident without further assessment. This report is prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted environmental engineering practices. No warranties, express or implied are intended or made. In the event any changes in the nature or location of suspected sources of contamination as outlined in this report are observed, the conclusions and recommendations contained in this report shall not be valid unless these changes are reviewed and the opinions of this report are modified or verified in writing by Terracon.


**CERTIFICATIONS**

I, Blaine R. Schroyer, P.E., hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

 E-31505  
Signature and P.E. number  
Office Manager  
Title

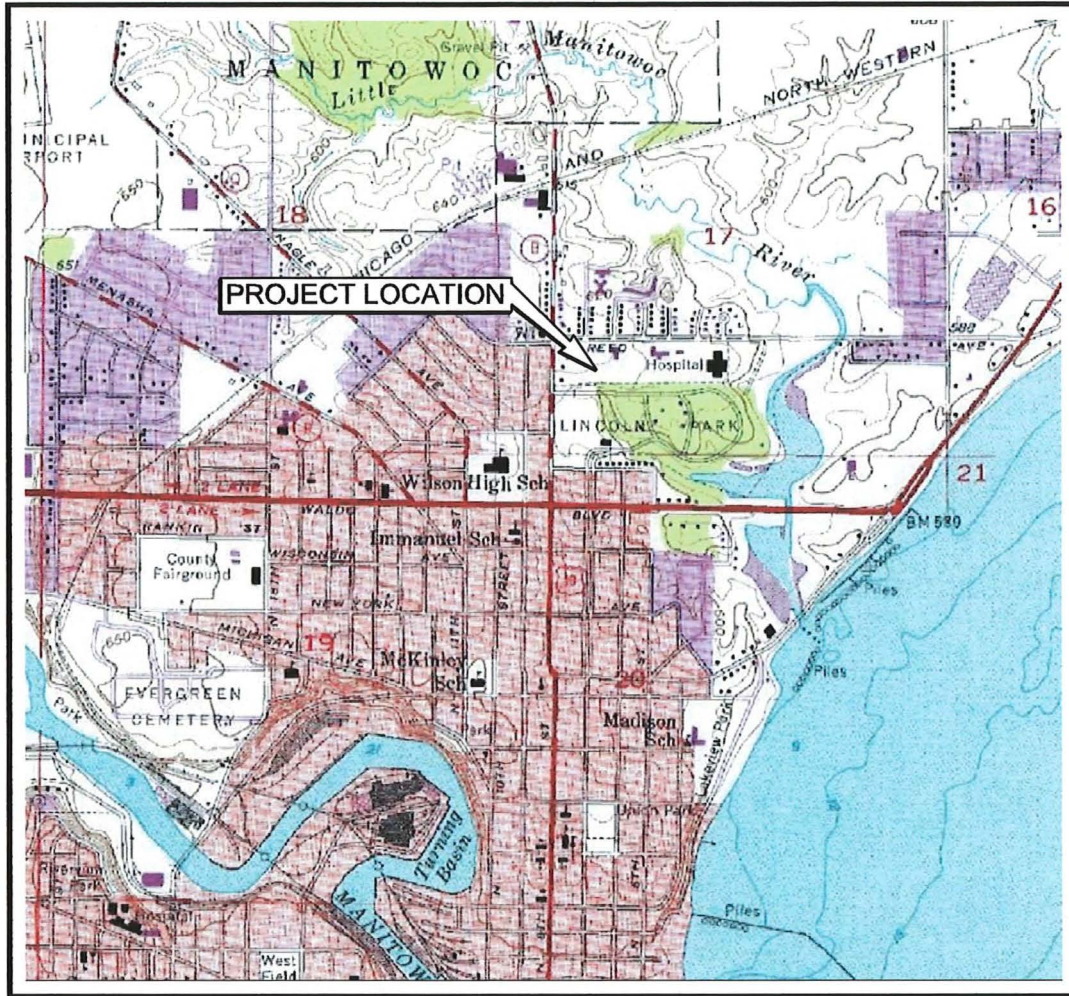


I, Mylan A. Koski Jr., hereby certify that I am a hydrogeologist as that term is delineated in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements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

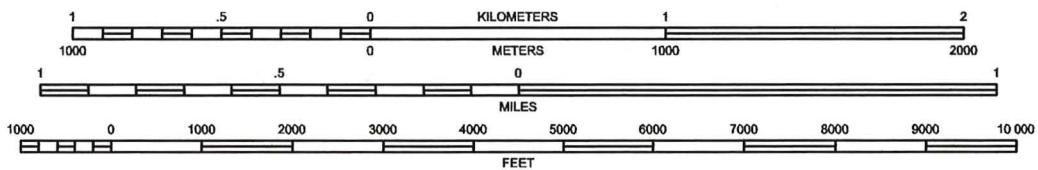
 3/2/06  
Signature Date  
Senior Project Hydrogeologist/Senior Project Manager  
Title



UNITED STATES - DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY



SCALE 1:24 000



MANITOWOC QUADRANGLE  
 WISCONSIN - MANITOWOC COUNTY  
 7.5 MINUTE SERIES (TOPOGRAPHIC)



DIAGRAM IS FOR GENERAL LOCATION ONLY,  
 AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

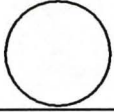
SITE LOCATION MAP PARKVIEW HAVEN APARTMENTS 1325 NORTH 8TH STREET MANITOWOC, WISCONSIN INTRA-CITY PARISHES OF MANITOWOC, INC.		
Project Mngr:	MAK	Project No. 38057027
Designed By:	AJP	Scale: AS SHOWN
Checked By:	MAK	Date: 1/9/06
Approved By:	BRS	Drawn By: AJP (38)
File Name:	38057027st.dwg	Figure No. 1

**Terracon**

3011B E. Capitol Drive  
 Appleton, WI 54911

TOPO

WATER TOWER



UNITED DRY CLEANERS

DMV

KFC RESTAURANT

REED AVENUE

PIGGLY WIGGLY

AURORA HEALTHCARE

RESIDENTIAL

VACANT LAND

PARKING LOT

ELEVATOR

PARTIAL BASEMENT

APPROXIMATE SITE BOUNDARY

SHED

LINCOLN PARK ACCESS DRIVE

8TH STREET

RESIDENTIAL

TENNIS COURTS

LINCOLN PARK

LEGEND



TRANSFORMER



MONITORING WELL LOCATION



BORING LOCATION

DIAGRAM IS FOR GENERAL LOCATION ONLY,  
AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES



SITE DIAGRAM  
PARKVIEW HAVEN APARTMENTS  
1325 NORTH 8TH STREET  
MANITOWOC, WISCONSIN  
INTRA-CITY PARISHES OF MANITOWOC, INC.

Project Mng'r: MAK

Designed By: AJP

Checked By: MAK

Approved By: BRS

**Terracon**

3011B E. Capitol Drive  
Appleton, WI 54911

File Name: 38057027sm2.dwg

Layout1

Project No. 38057027

Scale: NONE

Date: 1/9/06

Drawn By: AJP (38)

Figure No. 2





**LEGEND**

- B-1 BORING LOCATION
- ⊕ B-1 MONITORING WELL LOCATION



DIAGRAM IS FOR GENERAL LOCATION ONLY,  
AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

**AERIAL PHOTOGRAPH  
PARKVIEW HAVEN APARTMENTS  
1325 NORTH 8TH STREET  
MANITOWOC, WISCONSIN  
INTRA-CITY PARISHES OF MANITOWOC, INC.**

Project Mngr:	MAK	<b>Terracon</b> 3011B E. Capitol Drive Appleton, WI 54911	Project No.	38057027
Designed By:	AJP		Scale:	NONE
Checked By:	BRS		Date:	1/9/06
Approved By:	MAK		Drawn By:	AJP (38)
File Name:	38057027sm2.dwg	Layout2	Figure No.	3

Table 1  
 Parkview Haven  
 Manitowoc, Wisconsin  
 Terracon Project No. 38057027

Soil Analytical Summary

Sample Location	Sample Depth (feet)	Sample Date	VOC	
			Trichloroethene (TCE)	Tetrachloroethene (PCE)
Units			mg/kg	
NR 720.19, WAC, Protection of Groundwater, SSRCL <sup>1</sup>			0.0037	<b>0.0041</b>
NR 720.19, WAC, Non-Industrial Direct Contact SSRCL <sup>2</sup>			0.16	<b>1.23</b>
B-1	45	10/18/2005	<0.025	0.027 J
B-2	40	10/18/2005	<0.025	<0.025
MW-1	3-5	1/25/2006	0.029 J	<b>4.1</b>
MW-1	18-20	1/25/2006	<0.025	<b>0.164</b>

**NOTES:**

<sup>1</sup> Calculated NR 720.19, WAC, SSRCL for Soil to Groundwater Pathway per USEPA Soil Screening Guidance for Chemicals

<sup>2</sup> Calculated NR 720.19, WAC, SSRCL for Non-Industrial Direct Contact Pathway per USEPA Soil Screening Guidance for Chemicals

**Bold value** indicates compound was detected above the listed Protection of Groundwater SSRCL

**Bold and highlighted value** indicates compound detected above the listed Non-Industrial Direct Contact SSRCL

"mg/kg" indicates milligrams per kilogram

"<" Indicates compound was not detected above the listed method detection limit

"J" Indicates compound detected between the laboratory limit of detection (LOD) and limit of quantification (LOQ)



Table 2

Parkview Haven  
 Manitowoc, Wisconsin  
 Terracon Project No. 38057027

Groundwater Analytical Summary

Sample Location	Sample Date	VOC		
		Benzene	Tetrachloroethene (PCE)	Toluene
Units		µg/l		mg/l
NR 140 PAL <sup>1</sup>		0.5	<b>0.5</b>	200
NR 140 ES <sup>2</sup>		5	<b>5</b>	1,000
B-1	10/18/2005	<0.26	<b>11</b>	<0.00052
B-2	10/18/2005	0.44 J	<b>5.6</b>	0.00066 J
MW-1	1/25/2006	<2.6	<b>180</b>	<0.0052

**NOTES:**

<sup>1</sup> NR 140, Wisconsin Administrative Code, Groundwater Quality Standard, Preventative Action Limit (PAL)

<sup>2</sup> NR 140, Wisconsin Administrative Code, Groundwater Quality Standard, Enforcement Standard (ES)

**Bold** values indicate compound was detected above the listed PAL

**Bold and highlighted** values indicate compound was detected above the listed ES

"mg/l" Indicates milligrams per liter

"µg/l" Indicates micrograms per liter

"< " Indicates compound was not detected above the listed method detection limit

"J" Indicates compound detected between the laboratory limit of detection (LOD) and limit of quantification (LOQ)

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

Facility/Project Name <b>Parkview Haven</b>		License/Permit/Monitoring Number		Boring Number <b>B-1</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Tim Celichowski Terracon Consultants, Inc.</b>			Date Drilling Started <b>10/18/2005</b>	Date Drilling Completed <b>10/18/2005</b>	Drilling Method <b>hollow stem auger</b>
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter <b>8.0 inches</b>
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane <b>N, E S/C/N</b>			Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
NW 1/4 of SW 1/4 of Section 17, T 19 N, R 24 E		Lat _____ ' _____ "	Long _____ ' _____ "		
Facility ID	County <b>Manitowoc</b>	County Code <b>36</b>	Civil Town/City/ or Village <b>Manitowoc</b>		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/(pH)	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 SS	18 12		1 2 3 4 5 6 7 8	SAND - Light brown, medium-grained, dry	SP										
2 SS	18 18		9 10 11 12	SAND - Light brown, medium-grained, dry to slightly moist	SP										

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

Signature 	Firm <b>Terracon Consultants, Inc.</b> 3011B E. Capitol Dr. Appleton, WI 54911	Tel: 920-993-9096 Fax: 920-993-9108
---------------	--	--



Boring Number **B-1**

Use only as an attachment to Form 4400-122.

Page 3 of 4

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/(pH)	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
7 SS	18 18		33	GRAVEL - Gray, fine to coarse-grained w/medium to coarse-grained sand, dry <i>(continued)</i>	GW									
			34	GRAVEL - Gray, fine to coarse-grained w/medium to coarse-grained sand, dry	GW									
8 SS	18		38	GRAVEL - Light brown-gray, angular, fine to coarse-grained w/medium to coarse-grained sand, dry	GW									
			39											
9 SS	18		43	SAND - Light brown, medium-grained, dry to moist	SP									
			44											
10 SS	18		48	SAND W/ FINE GRAVEL - Light brown, medium-grained, wet	SW									
			49											
			50		SW									
			51		SW									
			52											





All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location <u>B-1 (WW-1)</u> County _____		Original Well Owner (If Known) _____	
____ 1/4 of ____ 1/4 of Sec. ____ ; T. ____ N. R. ____ <input type="checkbox"/> E <input type="checkbox"/> W		Present Well Owner _____	
(If applicable) Gov't Lot _____ Grid Number _____		Street or Route _____	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		City, State, Zip Code _____	
Civil Town Name _____		Facility Well No. and/or Name (If Applicable) _____	WI Unique Well No. _____
Street Address of Well _____		Reason For Abandonment <u>Finished taking water sample</u>	
City, Village _____		Date of Abandonment <u>10/19/05 - WEN.</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>10/19/05 - WEN</u>		(4) Depth to Water (Feet) <u>48' approx.</u>	
<input checked="" type="checkbox"/> Monitoring Well (temp) Construction Report Available? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input type="checkbox"/> Borehole Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____ Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock Total Well Depth (ft.) <u>55'</u> Casing Diameter (ins.) <u>2"</u> (From ground surface) Casing Depth (ft.) <u>45'</u> Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet		(5) Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe (Gravity) <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____	
		(6) Sealing Materials For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input checked="" type="checkbox"/> Chipped Bentonite <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Cement Grout	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks, Sealant or Volume	(Circle One)	Mix Ratio or Mud Weight
<u>3/4" coarse Bentonite chips</u>	<u>Surface</u>		<u>15 Bags</u>		<u>N/A</u>

(8) Comments: \_\_\_\_\_

(9) Name of Person or Firm Doing Sealing Work Timothy F. Celichowski (Terracon)

Signature of Person Doing Work Timothy F. Celichowski Date Signed 10/19/05 - WEN

Street or Route \_\_\_\_\_ Telephone Number (914) 397-8885





City, State, Zip Code Milwaukee, Wisc 53208

(10) FOR DNR OR COUNTY USE ONLY


Date Received/Inspected _____	District/County _____
Reviewer/Inspector _____	<input type="checkbox"/> Complying Work <input type="checkbox"/> Noncomplying Work
Follow-up Necessary _____	

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

Facility/Project Name <b>Parkview Haven</b>		License/Permit/Monitoring Number		Boring Number <b>B-2</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Tim Celichowski Terracon Consultants, Inc.</b>			Date Drilling Started <b>10/18/2005</b>	Date Drilling Completed <b>10/18/2005</b>	Drilling Method <b>hollow stem auger</b>
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter <b>8.0 inches</b>
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>			Local Grid Location		
State Plane <b>N, E S/C/N</b>			Lat _____ ' _____ "		
<b>NW 1/4 of SW 1/4 of Section 17, T 19 N, R 24 E</b>			Long _____ ' _____ "		
Facility ID		County <b>Manitowoc</b>	County Code <b>36</b>	Civil Town/City/ or Village <b>Manitowoc</b>	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/(pH)	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 SS	18 18		1	SAND - Light brown, medium-grained, loose, dry	SP									
			2											
			3											
2 SS	18 18		4	SAND - Light brown, medium-grained, loose, dry	SP									
			5											
			6											
			7											
			8											
			9											
			10											
			11											
			12											

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

Signature 	Firm <b>Terracon Consultants, Inc.</b> 3011B E. Capitol Dr. Appleton, WI 54911	Tel: 920-993-9096 Fax: 920-993-9108
--	--	--

Boring Number **B-2**

Use only as an attachment to Form 4400-122.

Page 2 of 3

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/(pH)	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
3 SS	18 18		13	SAND - Light brown, medium-grained, loose, dry ( <i>continued</i> )	SP									
			14	SAND - Light brown, medium-grained, loose, dry										
4 SS	18 18		15											
			16		SP									
			17											
			18											
5 SS	18 18		19	SAND - Light brown-gray, medium-grained w/angular gravel, dry										
			20											
			21		SP									
			22											
			23											
6 SS	18 18		24	SAND - Light brown-gray, medium to coarse-grained w/medium to coarse gravel, dry										
			25											
			26		SP									
			27											
			28											
6 SS	18 18		29	SAND - Brownish gray, medium-grained, loose, dry										
			30		SP									
			31											
			32											

Boring Number **B-2**

Use only as an attachment to Form 4400-122.

Page **3** of **3**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/(pH)	Soil Properties						RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
7 SS	18 18		33	SAND - Brownish gray, medium-grained, loose, dry ( <i>continued</i> )	SP										
			34	SAND - Light brown, medium-grained, loose, dry to moist	SP										
8 SS	18 18		38	SAND - White-gray, medium-grained w/angular gravel, loose	SP										
			39												
9 SS	18 18		43	GRAVEL - Light brown-gray, fine to medium-grained, wet	GW										
			44												
10 SS	18 18		49	EOB - 50'											
			50												

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

<b>(1) GENERAL INFORMATION</b>		<b>(2) FACILITY NAME</b>	
Well/Drillhole/Borehole <sup>BL</sup> Location <u>B-2 (Mwt-2)</u> County _____		Original Well Owner (If Known) _____	
____ 1/4 of ____ 1/4 of Sec. ____; T. ____ N. R. ____ <input type="checkbox"/> E <input type="checkbox"/> W		Present Well Owner _____	
(If applicable) Gov't Lot _____ Grid Number _____		Street or Route _____	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		City, State, Zip Code _____	
Civil Town Name _____		Facility Well No. and/or Name (If Applicable) _____	W1 Unique Well No. _____
Street Address of Well _____		Reason For Abandonment <u>Finished taking water sample</u>	
City, Village _____		Date of Abandonment <u>10/19/05 - Wew</u>	

<b>WELL/DRILLHOLE/BOREHOLE INFORMATION</b>	
<b>(3) Original Well/Drillhole/Borehole Construction Completed On</b> (Date) <u>10/19/05 - Wew</u>	
<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input type="checkbox"/> Borehole	
Construction Report Available? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth (ft.) <u>50'</u> Casing Diameter (ins.) <u>2"</u> (From ground surface)	
Casing Depth (ft.) <u>40'</u>	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet	
<b>(4) Depth to Water (Feet)</b> <u>42' Approx.</u>	
Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____	
Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>(5) Required Method of Placing Sealing Material</b>	
<input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____	
<b>(6) Sealing Materials</b>	
<input type="checkbox"/> Near Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input checked="" type="checkbox"/> Chipped Bentonite	
For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Cement Grout	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Bags, Sealant or Volume	(Circle One)	Mix Ratio or Mud Weight
<u>3/4" Bentonite chips</u>	<u>Surface</u>		<u>20' Bags</u>		<u>N/A</u>













(8) Comments: \_\_\_\_\_

**(9) Name of Person or Firm Doing Sealing Work**  
Matthew P. Celichowski (Terracon)  
 Signature of Person Doing Work \_\_\_\_\_ Date Signed 10/19/05 - Wew  
Matthew P. Celichowski  
 Street or Route \_\_\_\_\_ Telephone Number (414) 397-8885  
 City, State, Zip Code Milwaukee, WISC 53208

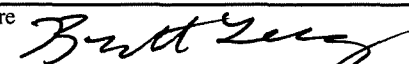
<b>(10) FOR DNR OR COUNTY USE ONLY</b>	
Date Received/Inspected _____	District/County _____
Reviewer/Inspector _____	<input type="checkbox"/> Complying Work <input type="checkbox"/> Noncomplying Work
Follow-up Necessary _____	

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

Facility/Project Name <b>Parkview Haven (38057027)</b>		License/Permit/Monitoring Number		Boring Number <b>MW-1</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Tim Celichowski Terracon Consultants, Inc.</b>			Date Drilling Started <b>1/25/2006</b>	Date Drilling Completed <b>1/25/2006</b>	Drilling Method <b>hollow stem auger</b>
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter <b>8.0 inches</b>
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>			Local Grid Location		
State Plane <b>N, E S/C/N</b>			Lat _____ ° _____ ' _____ "	<input type="checkbox"/> N <input type="checkbox"/> E	
<b>NW 1/4 of SW 1/4 of Section 17, T 19 N, R 24 E</b>			Long _____ ° _____ ' _____ "	<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County <b>Manitowoc</b>	County Code <b>36</b>	Civil Town/City/ or Village <b>Manitowoc</b>	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/(pH)	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 SS	24 24		2	CLAY W/trace GRAVEL & SAND - Brown, dry	CL										
			4												
2 SS	24 24		8	SAND W/trace CLAY - Brown, dry	SP										
			10												
3 SS	24 24		14	SAND - Light brown, medium-grained, dry	SP										
			16												
4 SS	24 24		18	SAND - Light brown, medium-grained, dry	SP										
			20												
5 SS	24 24		24	SAND - Medium to coarse-grained, well sorted, dense, dry	SP										
			26												
6 SS	24 24		28	SAND - Medium to coarse-grained, well sorted, dense, dry	SP										
			30												

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

Signature 	Firm <b>Terracon Consultants, Inc.</b> 3011B E. Capitol Dr. Appleton, WI 54911	Tel: 920-993-9096 Fax: 920-993-9108
--	--	--





Facility/Project Name <b>Parkview Haven Apartments</b>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. ft. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name <b>MW-1</b>
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/> Lat. _____ " Long. _____ " or	Wis. Unique Well No. _____ DNR Well ID No. _____
Facility ID	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed <b>01/25/2006</b> m m d d y y y y
Type of Well Well Code _____ / _____	Section Location of Waste/Source <b>NW 1/4 of SW 1/4 of Sec. 17, T. 19 N. R. 24</b> <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Well Installed By: Name (first, last) and Firm
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known

A. Protective pipe, top elevation _____ ft. MSL		1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL		2. Protective cover pipe: a. Inside diameter: <b>8.0 in.</b> b. Length: <b>1.0 ft.</b> c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation _____ ft. MSL		d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: <b>Flush Mant</b>
D. Surface seal, bottom _____ ft. MSL or _____ ft.		3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>		5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight . . . . . Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite . . . . . Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft <sup>3</sup> volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99 16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____ 17. Source of water (attach analysis, if required): _____		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or <b>1.5 ft.</b>	7. Fine sand material: Manufacturer, product name & mesh size a. <b>Red Flint 80/120</b> b. Volume added <b>1 bag / 50 lbs. ft<sup>3</sup></b>	8. Filter pack material: Manufacturer, product name & mesh size a. <b>Red Flint 80/120</b> b. Volume added <b>8 bags / 50 lbs. ft<sup>3</sup></b>
F. Fine sand, top _____ ft. MSL or <b>43.0 ft.</b>	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>	10. Screen material: <b>Sec. 40 PVC</b> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
G. Filter pack, top _____ ft. MSL or <b>45.0 ft.</b>	b. Manufacturer <b>Setco</b> c. Slot size: <b>0.01 in.</b> d. Slotted length: <b>10.0 ft.</b>	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or <b>47.0 ft.</b>		
I. Well bottom _____ ft. MSL or <b>57.0 ft.</b>		
J. Filter pack, bottom _____ ft. MSL or <b>57.5 ft.</b>		
K. Borehole, bottom _____ ft. MSL or <b>57.5 ft.</b>		
L. Borehole, diameter <b>8.0 in.</b>		
M. O.D. well casing _____ in.		
N. I.D. well casing <b>2.0 in.</b>		

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

Signature **Brett Young** Firm **Terracon Consultants, Inc**

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

Facility/Project Name <u>Parkview Haven</u>	County Name <u>Manitowoc</u>	Well Name <u>MW-1</u>
Facility License, Permit or Monitoring Number	County Code <u>36</u>	Wis. Unique Well Number _____
		DNR Well ID Number _____

1. Can this well be purged dry?  Yes  No

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

3. Time spent developing well 50 min.

4. Depth of well (from top of well casing) 57.0 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 12.2 gal.

7. Volume of water removed from well 30.0 gal.

8. Volume of water added (if any) 0.0 gal.

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

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

17. Additional comments on development:

11. Depth to Water (from top of well casing)

	Before Development	After Development
a.	<u>50.03</u> ft.	<u>51.27</u> ft.

Date b. 01/25/2006 01/25/2006  
m m d d y y y y m m d d y y y y

Time c. 3:30  a.m.  p.m. 4:20  a.m.  p.m.

12. Sediment in well bottom 0.0 inches \_\_\_\_\_ inches

13. Water clarity Clear  10 Turbid  15 (Describe) \_\_\_\_\_  
Clear  20 Turbid  25 (Describe) \_\_\_\_\_

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

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

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

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

First Name: Brett Last Name: Losey

Firm: Terracon

Name and Address of Facility Contact/Owner/Responsible Party

First Name: James Last Name: Ellsen

Facility/Firm: United Dry Cleaners

Street: 623 Reed Avenue

City/State/Zip: Manitowoc, WI 54220

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

Signature: Brett Losey

Print Name: Brett Losey

Firm: Terracon

# TERRACON GROUND WATER SAMPLING INFORMATION SHEET

PROJECT NAME: <i>Parkview Haven</i>		PROJECT NO. <i>38057027</i>
PROJECT LOCATION: <i>Manitowoc, WI</i>		
SAMPLE POINT: <i>MW-1</i>	SAMPLE POINT DESCRIPTION:	
CASING DIAMETER: <i>2.00</i>		
WELL DEPTH: <i>57.02</i>		
DATE: <i>1/25/06</i>	TIME: <i>1525</i>	AM/PM: <input checked="" type="radio"/> AM <input type="radio"/> PM DEPTH TO GROUND WATER (FT): <i>50.03</i>

CALCULATION: *57.02 - 50.03 x 0.17 gal/ft x 3 well volumes = 3.56 gallons*

SAMPLING METHOD: *Disposable Bailer*

DATE	TIME (AM/PM)	GALLONS REMOVED	COMMENTS
<i>1/25/06</i>	<i>1530</i>	<i>3φ</i>	<i>Began Bailing / Development</i>
	<i>1620</i>		<i>Sampled Well</i>

DISSOLVED OXYGEN: ----	FERROUS IRON: ----	NITRATE -----
pH: -----	ORP: ----	TEMP: -----
SPECIFIC CONDUCTANCE (uS/cm) ----		x1000

SAMPLE APPEARANCE:	VERY TURBID	TURBID	ODOR:	YES	NO	ANALYSES:
	<u>SLIGHTLY TURBID</u>	CLEAR		<u>NOT NOTED</u>	<u>VOC</u>	

CLEANING PERFORMED IN FIELD: *METHANOL AND DISPOSABLE GLOVES* \*INITIAL TO VERIFY OR NOTE OTHER CLEANING METHOD PERFORMED  
*BAL*

COMMENTS:

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SAMPLED BY: <i>BAL</i>	DATE: <i>1/25/06</i>
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REVIEWED BY: <i>MAIL</i>	DATE: <i>2/2/06</i>
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# Synergy Environmental Lab, INC

1990 Prospect Ct., Appleton, WI 54914 \*P 920-830-2455 \* F 920-733-0631

BRETT LOSEY  
TERRACON  
3011B E. Capitol Drive  
APPLETON WI 54911

Report Date 02-Nov-05

Project Name PARKVIEW HAVEN  
Project # 38057027  
Lab Code 5012529A  
Sample ID B-1  
Sample Matrix Water  
Sample Date 10/18/2005

Invoice # E12529

	Result	Units	LOD	LOQ	Dil	Method	Run Date	Analyst	Code
Organic									
VOC's									
Benzene	< 0.26	ug/l	0.26	0.83	1	8260B	10/26/2005	CJR	1
Bromobenzene	< 0.35	ug/l	0.35	1.1	1	8260B	10/26/2005	CJR	1
Bromodichloromethane	< 0.28	ug/l	0.28	0.9	1	8260B	10/26/2005	CJR	1
Bromoform	< 0.4	ug/l	0.4	1.3	1	8260B	10/26/2005	CJR	1
tert-Butylbenzene	< 0.34	ug/l	0.34	1.1	1	8260B	10/26/2005	CJR	1
sec-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B	10/26/2005	CJR	1
n-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B	10/26/2005	CJR	1
Carbon Tetrachloride	< 0.25	ug/l	0.25	0.81	1	8260B	10/26/2005	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.82	1	8260B	10/26/2005	CJR	1
Chloroethane	< 0.37	ug/l	0.37	1.2	1	8260B	10/26/2005	CJR	1
Chloroform	< 0.78	ug/l	0.78	2.5	1	8260B	10/26/2005	CJR	1
Chloromethane	< 1.1	ug/l	1.1	3.4	1	8260B	10/26/2005	CJR	1
2-Chlorotoluene	< 0.42	ug/l	0.42	1.3	1	8260B	10/26/2005	CJR	1
4-Chlorotoluene	< 0.24	ug/l	0.24	0.77	1	8260B	10/26/2005	CJR	1
1,2-Dibromo-3-chloropropane	< 4.1	ug/l	4.1	13	1	8260B	10/26/2005	CJR	1
Dibromochloromethane	< 0.74	ug/l	0.74	2.4	1	8260B	10/26/2005	CJR	1
1,4-Dichlorobenzene	< 0.69	ug/l	0.69	2.2	1	8260B	10/26/2005	CJR	1
1,3-Dichlorobenzene	< 0.64	ug/l	0.64	2	1	8260B	10/26/2005	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.7	1	8260B	10/26/2005	CJR	1
Dichlorodifluoromethane	< 0.2	ug/l	0.2	0.63	1	8260B	10/26/2005	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.8	1	8260B	10/26/2005	CJR	1
1,1-Dichloroethane	< 0.91	ug/l	0.91	2.9	1	8260B	10/26/2005	CJR	1
1,1-Dichloroethene	< 0.2	ug/l	0.2	0.64	1	8260B	10/26/2005	CJR	1
cis-1,2-Dichloroethene	< 0.27	ug/l	0.27	0.87	1	8260B	10/26/2005	CJR	1
trans-1,2-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B	10/26/2005	CJR	1
1,2-Dichloropropane	< 0.37	ug/l	0.37	1.2	1	8260B	10/26/2005	CJR	1
2,2-Dichloropropane	< 0.34	ug/l	0.34	1.1	1	8260B	10/26/2005	CJR	1
1,3-Dichloropropane	< 0.4	ug/l	0.4	1.3	1	8260B	10/26/2005	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B	10/26/2005	CJR	1

Project Name PARKVIEW HAVEN  
 Project # 38057027

Invoice # E12529

Lab Code 5012529A  
 Sample ID B-1  
 Sample Matrix Water  
 Sample Date 10/18/2005

	Result	Units	LOD	LOQ	Dil	Method	Run Date	Analyst	Code
EDB (1,2-Dibromoethane)	< 0.58	ug/l	0.58	1.9	1	8260B	10/26/2005	CJR	1
Ethylbenzene	< 0.3	ug/l	0.3	0.97	1	8260B	10/26/2005	CJR	1
Hexachlorobutadiene	< 1.6	ug/l	1.6	5.2	1	8260B	10/26/2005	CJR	1
Isopropylbenzene	< 0.56	ug/l	0.56	1.8	1	8260B	10/26/2005	CJR	1
p-Isopropyltoluene	< 0.5	ug/l	0.5	1.6	1	8260B	10/26/2005	CJR	1
Methylene chloride	< 0.55	ug/l	0.55	1.8	1	8260B	10/26/2005	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.36	ug/l	0.36	1.2	1	8260B	10/26/2005	CJR	1
Naphthalene	< 0.85	ug/l	0.85	2.7	1	8260B	10/26/2005	CJR	1
n-Propylbenzene	< 0.56	ug/l	0.56	1.8	1	8260B	10/26/2005	CJR	1
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.93	1	8260B	10/26/2005	CJR	1
1,1,1,2-Tetrachloroethane	< 0.49	ug/l	0.49	1.6	1	8260B	10/26/2005	CJR	1
Tetrachloroethane	11 < 0.45	ug/l	0.45	1.4	1	8260B	10/26/2005	CJR	1
Toluene	< 0.52	ug/l	0.52	1.6	1	8260B	10/26/2005	CJR	1
1,2,4-Trichlorobenzene	< 1.1	ug/l	1.1	3.4	1	8260B	10/26/2005	CJR	1
1,2,3-Trichlorobenzene	< 1.6	ug/l	1.6	5.1	1	8260B	10/26/2005	CJR	1
1,1,1-Trichloroethane	< 0.42	ug/l	0.42	1.3	1	8260B	10/26/2005	CJR	1
1,1,2-Trichloroethane	< 0.35	ug/l	0.35	1.1	1	8260B	10/26/2005	CJR	1
Trichloroethene (TCE)	< 0.37	ug/l	0.37	1.2	1	8260B	10/26/2005	CJR	1
Trichlorofluoromethane	< 0.48	ug/l	0.48	1.5	1	8260B	10/26/2005	CJR	1
1,2,4-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B	10/26/2005	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	8260B	10/26/2005	CJR	1
Vinyl Chloride	< 0.16	ug/l	0.16	0.52	1	8260B	10/26/2005	CJR	1
m&p-Xylene	< 0.79	ug/l	0.79	2.5	1	8260B	10/26/2005	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B	10/26/2005	CJR	1

Lab Code 5012529B  
 Sample ID B-1S  
 Sample Matrix Soil  
 Sample Date 10/18/2005

	Result	Units	LOD	LOQ	Dil	Method	Run Date	Analyst	Code
General									
General									
Solids Percent	95.9	%			1	5021	10/26/2005	CJR	1
Organic									
VOC's									
Benzene	< 25	ug/kg	8.2	26	1	8260B	10/25/2005	CJR	1
Bromobenzene	< 25	ug/kg	20	62	1	8260B	10/25/2005	CJR	1
Bromodichloromethane	< 25	ug/kg	16	50	1	8260B	10/25/2005	CJR	1
Bromoform	< 25	ug/kg	24	76	1	8260B	10/25/2005	CJR	1
tert-Butylbenzene	< 25	ug/kg	7.7	24	1	8260B	10/25/2005	CJR	1
sec-Butylbenzene	< 25	ug/kg	6.7	21	1	8260B	10/25/2005	CJR	1
n-Butylbenzene	< 25	ug/kg	4.3	14	1	8260B	10/25/2005	CJR	1
Carbon Tetrachloride	< 25	ug/kg	14	44	1	8260B	10/25/2005	CJR	1
Chlorobenzene	< 25	ug/kg	14	46	1	8260B	10/25/2005	CJR	1
Chloroethane	< 25	ug/kg	23	74	1	8260B	10/25/2005	CJR	1
Chloroform	< 25	ug/kg	8.2	26	1	8260B	10/25/2005	CJR	1
Chloromethane	< 25	ug/kg	19	60	1	8260B	10/25/2005	CJR	1
2-Chlorotoluene	< 25	ug/kg	4.7	15	1	8260B	10/25/2005	CJR	1
4-Chlorotoluene	< 25	ug/kg	4.3	14	1	8260B	10/25/2005	CJR	1
1,2-Dibromo-3-chloropropane	< 25	ug/kg	19	61	1	8260B	10/25/2005	CJR	2
Dibromochloromethane	< 25	ug/kg	18	56	1	8260B	10/25/2005	CJR	1
1,4-Dichlorobenzene	< 25	ug/kg	7.1	22	1	8260B	10/25/2005	CJR	1
1,3-Dichlorobenzene	< 25	ug/kg	17	53	1	8260B	10/25/2005	CJR	1
1,2-Dichlorobenzene	< 25	ug/kg	15	47	1	8260B	10/25/2005	CJR	1

Project Name PARKVIEW HAVEN  
 Project # 38057027

Invoice # E12529

Lab Code 5012529B  
 Sample ID B-1S  
 Sample Matrix Soil  
 Sample Date 10/18/2005

	Result	Units	LOD	LOQ	Dil	Method	Run Date	Analyst	Code
Dichlorodifluoromethane	< 25	ug/kg	16	50	1	8260B	10/25/2005	CJR	1
1,2-Dichloroethane	< 25	ug/kg	16	50	1	8260B	10/25/2005	CJR	1
1,1-Dichloroethane	< 25	ug/kg	19	60	1	8260B	10/25/2005	CJR	1
1,1-Dichloroethene	< 25	ug/kg	25	78	1	8260B	10/25/2005	CJR	1
cis-1,2-Dichloroethene	< 25	ug/kg	22	69	1	8260B	10/25/2005	CJR	1
trans-1,2-Dichloroethene	< 25	ug/kg	23	75	1	8260B	10/25/2005	CJR	1
1,2-Dichloropropane	< 25	ug/kg	16	51	1	8260B	10/25/2005	CJR	1
2,2-Dichloropropane	< 25	ug/kg	25	79	1	8260B	10/25/2005	CJR	1
1,3-Dichloropropane	< 25	ug/kg	14	46	1	8260B	10/25/2005	CJR	1
Di-isopropyl ether	< 25	ug/kg	12	39	1	8260B	10/25/2005	CJR	1
EDB (1,2-Dibromoethane)	< 25	ug/kg	14	46	1	8260B	10/25/2005	CJR	1
Ethylbenzene	< 25	ug/kg	8	25	1	8260B	10/25/2005	CJR	1
Hexachlorobutadiene	< 25	ug/kg	24	78	1	8260B	10/25/2005	CJR	1
Isopropylbenzene	< 25	ug/kg	10	33	1	8260B	10/25/2005	CJR	1
p-Isopropyltoluene	< 25	ug/kg	9.2	29	1	8260B	10/25/2005	CJR	1
Methylene chloride	< 25	ug/kg	21	67	1	8260B	10/25/2005	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	12	37	1	8260B	10/25/2005	CJR	1
Naphthalene	< 25	ug/kg	11	35	1	8260B	10/25/2005	CJR	1
n-Propylbenzene	< 25	ug/kg	12	39	1	8260B	10/25/2005	CJR	1
1,1,2,2-Tetrachloroethane	< 25	ug/kg	18	58	1	8260B	10/25/2005	CJR	1
1,1,1,2-Tetrachloroethane	< 25	ug/kg	17	55	1	8260B	10/25/2005	CJR	1
Tetrachloroethene	27 "J"	ug/kg	18	57	1	8260B	10/25/2005	CJR	1
Toluene	< 25	ug/kg	13	41	1	8260B	10/25/2005	CJR	1
1,2,4-Trichlorobenzene	< 25	ug/kg	15	47	1	8260B	10/25/2005	CJR	1
1,2,3-Trichlorobenzene	< 25	ug/kg	20	62	1	8260B	10/25/2005	CJR	1
1,1,1-Trichloroethane	< 25	ug/kg	21	67	1	8260B	10/25/2005	CJR	1
1,1,2-Trichloroethane	< 25	ug/kg	21	67	1	8260B	10/25/2005	CJR	1
Trichloroethene (TCE)	< 25	ug/kg	15	46	1	8260B	10/25/2005	CJR	1
Trichlorofluoromethane	< 25	ug/kg	13	41	1	8260B	10/25/2005	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	12	37	1	8260B	10/25/2005	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	8.7	28	1	8260B	10/25/2005	CJR	1
Vinyl Chloride	< 25	ug/kg	13	39	1	8260B	10/25/2005	CJR	1
m&p-Xylene	< 50	ug/kg	31	99	1	8260B	10/25/2005	CJR	1
o-Xylene	< 25	ug/kg	20	64	1	8260B	10/25/2005	CJR	1

Lab Code 5012529C  
 Sample ID B-2  
 Sample Matrix Water  
 Sample Date 10/18/2005

	Result	Units	LOD	LOQ	Dil	Method	Run Date	Analyst	Code
Organic									
VOC's									
Benzene	0.44 "J"	ug/l	0.26	0.83	1	8260B	10/26/2005	CJR	1
Bromobenzene	< 0.35	ug/l	0.35	1.1	1	8260B	10/26/2005	CJR	1
Bromodichloromethane	< 0.28	ug/l	0.28	0.9	1	8260B	10/26/2005	CJR	1
Bromoform	< 0.4	ug/l	0.4	1.3	1	8260B	10/26/2005	CJR	1
tert-Butylbenzene	< 0.34	ug/l	0.34	1.1	1	8260B	10/26/2005	CJR	1
sec-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B	10/26/2005	CJR	1
n-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B	10/26/2005	CJR	1
Carbon Tetrachloride	< 0.25	ug/l	0.25	0.81	1	8260B	10/26/2005	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.82	1	8260B	10/26/2005	CJR	1
Chloroethane	< 0.37	ug/l	0.37	1.2	1	8260B	10/26/2005	CJR	1
Chloroform	< 0.78	ug/l	0.78	2.5	1	8260B	10/26/2005	CJR	1
Chloromethane	< 1.1	ug/l	1.1	3.4	1	8260B	10/26/2005	CJR	1
2-Chlorotoluene	< 0.42	ug/l	0.42	1.3	1	8260B	10/26/2005	CJR	1

Project Name PARKVIEW HAVEN  
 Project # 38057027

Invoice # E12529

Lab Code 5012529C  
 Sample ID B-2  
 Sample Matrix Water  
 Sample Date 10/18/2005

	Result	Units	LOD	LOQ	Dil	Method	Run Date	Analyst	Code
4-Chlorotoluene	< 0.24	ug/l	0.24	0.77	1	8260B	10/26/2005	CJR	1
1,2-Dibromo-3-chloropropane	< 4.1	ug/l	4.1	13	1	8260B	10/26/2005	CJR	1
Dibromochloromethane	< 0.74	ug/l	0.74	2.4	1	8260B	10/26/2005	CJR	1
1,4-Dichlorobenzene	< 0.69	ug/l	0.69	2.2	1	8260B	10/26/2005	CJR	1
1,3-Dichlorobenzene	< 0.64	ug/l	0.64	2	1	8260B	10/26/2005	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.7	1	8260B	10/26/2005	CJR	1
Dichlorodifluoromethane	< 0.2	ug/l	0.2	0.63	1	8260B	10/26/2005	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.8	1	8260B	10/26/2005	CJR	1
1,1-Dichloroethane	< 0.91	ug/l	0.91	2.9	1	8260B	10/26/2005	CJR	1
1,1-Dichloroethene	< 0.2	ug/l	0.2	0.64	1	8260B	10/26/2005	CJR	1
cis-1,2-Dichloroethene	< 0.27	ug/l	0.27	0.87	1	8260B	10/26/2005	CJR	1
trans-1,2-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B	10/26/2005	CJR	1
1,2-Dichloropropane	< 0.37	ug/l	0.37	1.2	1	8260B	10/26/2005	CJR	1
2,2-Dichloropropane	< 0.34	ug/l	0.34	1.1	1	8260B	10/26/2005	CJR	1
1,3-Dichloropropane	< 0.4	ug/l	0.4	1.3	1	8260B	10/26/2005	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B	10/26/2005	CJR	1
EDB (1,2-Dibromoethane)	< 0.58	ug/l	0.58	1.9	1	8260B	10/26/2005	CJR	1
Ethylbenzene	< 0.3	ug/l	0.3	0.97	1	8260B	10/26/2005	CJR	1
Hexachlorobutadiene	< 1.6	ug/l	1.6	5.2	1	8260B	10/26/2005	CJR	1
Isopropylbenzene	< 0.56	ug/l	0.56	1.8	1	8260B	10/26/2005	CJR	1
p-Isopropyltoluene	< 0.5	ug/l	0.5	1.6	1	8260B	10/26/2005	CJR	1
Methylene chloride	< 0.55	ug/l	0.55	1.8	1	8260B	10/26/2005	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.36	ug/l	0.36	1.2	1	8260B	10/26/2005	CJR	1
Naphthalene	< 0.85	ug/l	0.85	2.7	1	8260B	10/26/2005	CJR	1
n-Propylbenzene	< 0.56	ug/l	0.56	1.8	1	8260B	10/26/2005	CJR	1
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.93	1	8260B	10/26/2005	CJR	1
1,1,1,2-Tetrachloroethane	< 0.49	ug/l	0.49	1.6	1	8260B	10/26/2005	CJR	1
Tetrachloroethene	5.6	ug/l	0.45	1.4	1	8260B	10/26/2005	CJR	1
Toluene	0.66 "J"	ug/l	0.52	1.6	1	8260B	10/26/2005	CJR	1
1,2,4-Trichlorobenzene	< 1.1	ug/l	1.1	3.4	1	8260B	10/26/2005	CJR	1
1,2,3-Trichlorobenzene	< 1.6	ug/l	1.6	5.1	1	8260B	10/26/2005	CJR	1
1,1,1-Trichloroethane	< 0.42	ug/l	0.42	1.3	1	8260B	10/26/2005	CJR	1
1,1,2-Trichloroethane	< 0.35	ug/l	0.35	1.1	1	8260B	10/26/2005	CJR	1
Trichloroethene (TCE)	< 0.37	ug/l	0.37	1.2	1	8260B	10/26/2005	CJR	1
Trichlorofluoromethane	< 0.48	ug/l	0.48	1.5	1	8260B	10/26/2005	CJR	1
1,2,4-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B	10/26/2005	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	8260B	10/26/2005	CJR	1
Vinyl Chloride	< 0.16	ug/l	0.16	0.52	1	8260B	10/26/2005	CJR	1
m&p-Xylene	< 0.79	ug/l	0.79	2.5	1	8260B	10/26/2005	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B	10/26/2005	CJR	1

Lab Code 5012529D  
 Sample ID B-2S  
 Sample Matrix Soil  
 Sample Date 10/18/2005

	Result	Units	LOD	LOQ	Dil	Method	Run Date	Analyst	Code
General									
General									
Solids Percent	99.1	%			1	5021	10/26/2005	CJR	1
Organic									
VOC's									
Benzene	< 25	ug/kg	8.2	26	1	8260B	10/25/2005	CJR	13
Bromobenzene	< 25	ug/kg	20	62	1	8260B	10/25/2005	CJR	13
Bromodichloromethane	< 25	ug/kg	16	50	1	8260B	10/25/2005	CJR	13



Project Name PARKVIEW HAVEN  
 Project # 38057027

Invoice # E12529

Lab Code 5012529D  
 Sample ID B-2S  
 Sample Matrix Soil  
 Sample Date 10/18/2005

	Result	Units	LOD	LOQ	Dil	Method	Run Date	Analyst	Code
Bromoform	<25	ug/kg	24	76	1	8260B	10/25/2005	CJR	13
tert-Butylbenzene	<25	ug/kg	7.7	24	1	8260B	10/25/2005	CJR	13
sec-Butylbenzene	<25	ug/kg	6.7	21	1	8260B	10/25/2005	CJR	13
n-Butylbenzene	<25	ug/kg	4.3	14	1	8260B	10/25/2005	CJR	13
Carbon Tetrachloride	<25	ug/kg	14	44	1	8260B	10/25/2005	CJR	13
Chlorobenzene	<25	ug/kg	14	46	1	8260B	10/25/2005	CJR	13
Chloroethane	<25	ug/kg	23	74	1	8260B	10/25/2005	CJR	13
Chloroform	<25	ug/kg	8.2	26	1	8260B	10/25/2005	CJR	13
Chloromethane	<25	ug/kg	19	60	1	8260B	10/25/2005	CJR	13
2-Chlorotoluene	<25	ug/kg	4.7	15	1	8260B	10/25/2005	CJR	13
4-Chlorotoluene	<25	ug/kg	4.3	14	1	8260B	10/25/2005	CJR	13
1,2-Dibromo-3-chloropropane	<25	ug/kg	19	61	1	8260B	10/25/2005	CJR	2 13
Dibromochloromethane	<25	ug/kg	18	56	1	8260B	10/25/2005	CJR	13
1,4-Dichlorobenzene	<25	ug/kg	7.1	22	1	8260B	10/25/2005	CJR	13
1,3-Dichlorobenzene	<25	ug/kg	17	53	1	8260B	10/25/2005	CJR	13
1,2-Dichlorobenzene	<25	ug/kg	15	47	1	8260B	10/25/2005	CJR	13
Dichlorodifluoromethane	<25	ug/kg	16	50	1	8260B	10/25/2005	CJR	13
1,2-Dichloroethane	<25	ug/kg	16	50	1	8260B	10/25/2005	CJR	13
1,1-Dichloroethane	<25	ug/kg	19	60	1	8260B	10/25/2005	CJR	13
1,1-Dichloroethene	<25	ug/kg	25	78	1	8260B	10/25/2005	CJR	13
cis-1,2-Dichloroethene	<25	ug/kg	22	69	1	8260B	10/25/2005	CJR	13
trans-1,2-Dichloroethene	<25	ug/kg	23	75	1	8260B	10/25/2005	CJR	13
1,2-Dichloropropane	<25	ug/kg	16	51	1	8260B	10/25/2005	CJR	13
2,2-Dichloropropane	<25	ug/kg	25	79	1	8260B	10/25/2005	CJR	13
1,3-Dichloropropane	<25	ug/kg	14	46	1	8260B	10/25/2005	CJR	13
Di-isopropyl ether	<25	ug/kg	12	39	1	8260B	10/25/2005	CJR	13
EDB (1,2-Dibromoethane)	<25	ug/kg	14	46	1	8260B	10/25/2005	CJR	13
Ethylbenzene	<25	ug/kg	8	25	1	8260B	10/25/2005	CJR	13
Hexachlorobutadiene	<25	ug/kg	24	78	1	8260B	10/25/2005	CJR	13
Isopropylbenzene	<25	ug/kg	10	33	1	8260B	10/25/2005	CJR	13
p-Isopropyltoluene	<25	ug/kg	9.2	29	1	8260B	10/25/2005	CJR	13
Methylene chloride	<25	ug/kg	21	67	1	8260B	10/25/2005	CJR	13
Methyl tert-butyl ether (MTBE)	<25	ug/kg	12	37	1	8260B	10/25/2005	CJR	13
Naphthalene	<25	ug/kg	11	35	1	8260B	10/25/2005	CJR	13
n-Propylbenzene	<25	ug/kg	12	39	1	8260B	10/25/2005	CJR	13
1,1,2,2-Tetrachloroethane	<25	ug/kg	18	58	1	8260B	10/25/2005	CJR	13
1,1,1,2-Tetrachloroethane	<25	ug/kg	17	55	1	8260B	10/25/2005	CJR	13
Tetrachloroethene	<25	ug/kg	18	57	1	8260B	10/25/2005	CJR	13
Toluene	<25	ug/kg	13	41	1	8260B	10/25/2005	CJR	13
1,2,4-Trichlorobenzene	<25	ug/kg	15	47	1	8260B	10/25/2005	CJR	13
1,2,3-Trichlorobenzene	<25	ug/kg	20	62	1	8260B	10/25/2005	CJR	13
1,1,1-Trichloroethane	<25	ug/kg	21	67	1	8260B	10/25/2005	CJR	13
1,1,2-Trichloroethane	<25	ug/kg	21	67	1	8260B	10/25/2005	CJR	13
Trichloroethene (TCE)	<25	ug/kg	15	46	1	8260B	10/25/2005	CJR	13
Trichlorofluoromethane	<25	ug/kg	13	41	1	8260B	10/25/2005	CJR	13
1,2,4-Trimethylbenzene	<25	ug/kg	12	37	1	8260B	10/25/2005	CJR	13
1,3,5-Trimethylbenzene	<25	ug/kg	8.7	28	1	8260B	10/25/2005	CJR	13
Vinyl Chloride	<25	ug/kg	13	39	1	8260B	10/25/2005	CJR	13
m&p-Xylene	<50	ug/kg	31	99	1	8260B	10/25/2005	CJR	13
o-Xylene	<25	ug/kg	20	64	1	8260B	10/25/2005	CJR	13

**Project Name** PARKVIEW HAVEN  
**Project #** 38057027

**Invoice #** E12529

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

*Code*      *Comment*

- 1      Laboratory QC within limits.
- 2      Relative percent difference failed for laboratory spiked samples.
- 13     Sample does not meet method specific weight requirements.

**Authorized Signature** Michael J. Ricker

**CHAIN OF CUSTODY RECORD**

# Synergy

## Environmental Lab, Inc.

Chain # N<sup>o</sup> 5066

Page 1 of 1

Lab I.D. #	
Account No. :	Quote No.:
Project #: 38057027	
Sampler: (signature) <i>Brett Losey</i>	

1990 Prospect Ct. • Appleton, WI 54914  
920-830-2455 • FAX 920-733-0631

<b>Sample Handling Request</b>
___ Rush Analysis Date Required ___
(Rushes accepted only with prior authorization)
<input checked="" type="checkbox"/> Normal Turn Around

Project (Name / Location): <i>Parkview Haven / Manitowac, WI</i>	
Reports To: <i>Brett Losey</i>	Invoice To: <i>Parkview Haven</i>
Company <i>Terracon</i>	Company <i>Terracon</i>
Address <i>3011 B E. Capitol Dr.</i>	Address
City State Zip <i>Appleton, WI 54918</i>	City State Zip
Phone <i>9209939096</i>	Phone
FAX	FAX

Analysis Requested												
Other Analysis											PID/ FID	
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	PVOC (EPA 8021)	VOC (EPA 8260)	VOC DW (EPA 524.2)	PAH (EPA 8270)	Total Suspended Solids	Lead					

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	PVOC (EPA 8021)	VOC (EPA 8260)	VOC DW (EPA 524.2)	PAH (EPA 8270)	Total Suspended Solids	Lead	PID/ FID	
<i>5012529A</i>	<i>B-1</i>	<i>10/19/05</i>	<i>1330</i>			<i>N</i>	<i>3</i>	<i>GW</i>	<i>HCl</i>				<i>X</i>						
<i>B</i>	<i>B-1s</i>	<i>↓</i>	<i>1345</i>			<i>↓</i>	<i>2</i>	<i>S</i>	<i>MeOH</i>				<i>X</i>						
<i>C</i>	<i>B-2</i>	<i>↓</i>	<i>1540</i>			<i>↓</i>	<i>3</i>	<i>GW</i>	<i>HCl</i>				<i>X</i>						
<i>D</i>	<i>B-2s</i>	<i>↓</i>	<i>1515</i>			<i>↓</i>	<i>2</i>	<i>S</i>	<i>MeOH</i>				<i>X</i>						
<i>No More Samples</i>																			

Comments/Special Instructions (\*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab. Method of Shipment: <i>SUPPLY</i> Temp. of Temp. Blank: ___ °C On Ice: <i>2</i> Cooler seal intact upon receipt: <input checked="" type="checkbox"/> Yes ___ No	Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	<i>Brett Losey</i>	<i>900</i>	<i>10/19/05</i>			
	Received in Laboratory By: <i>Melje</i>	Time: <i>9:30 AM</i>	Date: <i>10/20/05</i>			

# Synergy Environmental Lab, Inc.

1990 Prospect Ct., Appleton, WI 54914 \*P 920-830-2455 \* F 920-733-0631

BRETT LOSEY  
TERRACON  
3011B E. Capitol Drive  
APPLETON WI 54911

Report Date 03-Feb-06

Project Name PARKVIEW HAVEN  
Project # 38057027

Invoice # E12963

Lab Code 5012963A  
Sample ID MW-1  
Sample Matrix Water  
Sample Date 1/25/2006

	Result	Units	LOD	LOQ	Dil	Method	Run Date	Analyst	Code
Organic									
VOC's									
Benzene	< 2.6	ug/l	2.6	8.3	10	8260B	1/31/2006	CJR	1
Bromobenzene	< 3.5	ug/l	3.5	11	10	8260B	1/31/2006	CJR	1
Bromodichloromethane	< 2.8	ug/l	2.8	9	10	8260B	1/31/2006	CJR	1
Bromoform	< 4	ug/l	4	13	10	8260B	1/31/2006	CJR	1
tert-Butylbenzene	< 3.4	ug/l	3.4	11	10	8260B	1/31/2006	CJR	1
sec-Butylbenzene	< 2.5	ug/l	2.5	8	10	8260B	1/31/2006	CJR	1
n-Butylbenzene	< 6.1	ug/l	6.1	19	10	8260B	1/31/2006	CJR	1
Carbon Tetrachloride	< 2.5	ug/l	2.5	8.1	10	8260B	1/31/2006	CJR	1
Chlorobenzene	< 2.6	ug/l	2.6	8.2	10	8260B	1/31/2006	CJR	1
Chloroethane	< 3.7	ug/l	3.7	12	10	8260B	1/31/2006	CJR	1
Chloroform	< 7.8	ug/l	7.8	25	10	8260B	1/31/2006	CJR	1
Chloromethane	< 11	ug/l	11	34	10	8260B	1/31/2006	CJR	1
2-Chlorotoluene	< 4.2	ug/l	4.2	13	10	8260B	1/31/2006	CJR	1
4-Chlorotoluene	< 2.4	ug/l	2.4	7.7	10	8260B	1/31/2006	CJR	1
1,2-Dibromo-3-chloropropane	< 41	ug/l	41	130	10	8260B	1/31/2006	CJR	2
Dibromochloromethane	< 7.4	ug/l	7.4	24	10	8260B	1/31/2006	CJR	1
1,4-Dichlorobenzene	< 6.9	ug/l	6.9	22	10	8260B	1/31/2006	CJR	1
1,3-Dichlorobenzene	< 6.4	ug/l	6.4	20	10	8260B	1/31/2006	CJR	1
1,2-Dichlorobenzene	< 8.6	ug/l	8.6	27	10	8260B	1/31/2006	CJR	1
Dichlorodifluoromethane	< 2	ug/l	2	6.3	10	8260B	1/31/2006	CJR	1
1,2-Dichloroethane	< 2.5	ug/l	2.5	8	10	8260B	1/31/2006	CJR	1
1,1-Dichloroethane	< 9.1	ug/l	9.1	29	10	8260B	1/31/2006	CJR	1
1,1-Dichloroethene	< 2	ug/l	2	6.4	10	8260B	1/31/2006	CJR	1
cis-1,2-Dichloroethene	< 2.7	ug/l	2.7	8.7	10	8260B	1/31/2006	CJR	1
trans-1,2-Dichloroethene	< 4	ug/l	4	13	10	8260B	1/31/2006	CJR	1
1,2-Dichloropropane	< 3.7	ug/l	3.7	12	10	8260B	1/31/2006	CJR	1
2,2-Dichloropropane	< 3.4	ug/l	3.4	11	10	8260B	1/31/2006	CJR	1
1,3-Dichloropropane	< 4	ug/l	4	13	10	8260B	1/31/2006	CJR	1
Di-isopropyl ether	< 2.3	ug/l	2.3	7.3	10	8260B	1/31/2006	CJR	1

Project Name PARKVIEW HAVEN  
 Project # 38057027

Invoice # E12963

Lab Code 5012963A  
 Sample ID MW-1  
 Sample Matrix Water  
 Sample Date 1/25/2006

	Result	Units	LOD	LOQ	Dil	Method	Run Date	Analyst	Code
EDB (1,2-Dibromoethane)	< 5.8	ug/l	5.8		10	8260B	1/31/2006	CJR	1
Ethylbenzene	< 3	ug/l	3	9.7	10	8260B	1/31/2006	CJR	1
Hexachlorobutadiene	< 16	ug/l	16	52	10	8260B	1/31/2006	CJR	1
Isopropylbenzene	< 5.6	ug/l	5.6	18	10	8260B	1/31/2006	CJR	1
p-Isopropyltoluene	< 5	ug/l	5	16	10	8260B	1/31/2006	CJR	1
Methylene chloride	< 5.5	ug/l	5.5	18	10	8260B	1/31/2006	CJR	1
Methyl tert-butyl ether (MTBE)	< 3.6	ug/l	3.6	12	10	8260B	1/31/2006	CJR	1
Naphthalene	< 8.5	ug/l	8.5	27	10	8260B	1/31/2006	CJR	1
n-Propylbenzene	< 5.6	ug/l	5.6	18	10	8260B	1/31/2006	CJR	1
1,1,2,2-Tetrachloroethane	< 2.9	ug/l	2.9	9.3	10	8260B	1/31/2006	CJR	1
1,1,1,2-Tetrachloroethane	< 4.9	ug/l	4.9	16	10	8260B	1/31/2006	CJR	1
Tetrachloroethene	180	ug/l	4.5	14	10	8260B	1/31/2006	CJR	1
Toluene	< 5.2	ug/l	5.2	16	10	8260B	1/31/2006	CJR	1
1,2,4-Trichlorobenzene	< 11	ug/l	11	34	10	8260B	1/31/2006	CJR	1
1,2,3-Trichlorobenzene	< 16	ug/l	16	51	10	8260B	1/31/2006	CJR	1
1,1,1-Trichloroethane	< 4.2	ug/l	4.2	13	10	8260B	1/31/2006	CJR	1
1,1,2-Trichloroethane	< 3.5	ug/l	3.5	11	10	8260B	1/31/2006	CJR	1
Trichloroethene (TCE)	< 3.7	ug/l	3.7	12	10	8260B	1/31/2006	CJR	1
Trichlorofluoromethane	< 4.8	ug/l	4.8	15	10	8260B	1/31/2006	CJR	1
1,2,4-Trimethylbenzene	< 3.2	ug/l	3.2	10	10	8260B	1/31/2006	CJR	1
1,3,5-Trimethylbenzene	< 8.3	ug/l	8.3	26	10	8260B	1/31/2006	CJR	1
Vinyl Chloride	< 1.6	ug/l	1.6	5.2	10	8260B	1/31/2006	CJR	1
m&p-Xylene	< 7.9	ug/l	7.9	25	10	8260B	1/31/2006	CJR	1
o-Xylene	< 3.8	ug/l	3.8	12	10	8260B	1/31/2006	CJR	1

Lab Code 5012963B  
 Sample ID MW-1 (3-5)  
 Sample Matrix Soil  
 Sample Date 1/25/2006

	Result	Units	LOD	LOQ	Dil	Method	Run Date	Analyst	Code
General									
General									
Solids Percent	82.6	%			1	5021	2/1/2006	CJR	1
Organic									
VOC's									
Benzene	< 25	ug/kg	8.2	26	1	8260B	2/1/2006	CJR	1
Bromobenzene	< 25	ug/kg	20	62	1	8260B	2/1/2006	CJR	1
Bromodichloromethane	< 25	ug/kg	16	50	1	8260B	2/1/2006	CJR	1
Bromoform	< 25	ug/kg	24	76	1	8260B	2/1/2006	CJR	1
tert-Butylbenzene	< 25	ug/kg	7.7	24	1	8260B	2/1/2006	CJR	1
sec-Butylbenzene	< 25	ug/kg	6.7	21	1	8260B	2/1/2006	CJR	1
n-Butylbenzene	< 25	ug/kg	4.3	14	1	8260B	2/1/2006	CJR	1
Carbon Tetrachloride	< 25	ug/kg	14	44	1	8260B	2/1/2006	CJR	1
Chlorobenzene	< 25	ug/kg	14	46	1	8260B	2/1/2006	CJR	1
Chloroethane	< 25	ug/kg	23	74	1	8260B	2/1/2006	CJR	1
Chloroform	< 25	ug/kg	8.2	26	1	8260B	2/1/2006	CJR	1
Chloromethane	< 25	ug/kg	19	60	1	8260B	2/1/2006	CJR	1
2-Chlorotoluene	< 25	ug/kg	4.7	15	1	8260B	2/1/2006	CJR	1
4-Chlorotoluene	< 25	ug/kg	4.3	14	1	8260B	2/1/2006	CJR	1
1,2-Dibromo-3-chloropropane	< 25	ug/kg	19	61	1	8260B	2/1/2006	CJR	1
Dibromochloromethane	< 25	ug/kg	18	56	1	8260B	2/1/2006	CJR	1
1,4-Dichlorobenzene	< 25	ug/kg	7.1	22	1	8260B	2/1/2006	CJR	1
1,3-Dichlorobenzene	< 25	ug/kg	17	53	1	8260B	2/1/2006	CJR	1
1,2-Dichlorobenzene	< 25	ug/kg	15	47	1	8260B	2/1/2006	CJR	1

Project Name PARKVIEW HAVEN  
 Project # 38057027

Invoice # E12963

Lab Code 5012963B  
 Sample ID MW-1 (3-5)  
 Sample Matrix Soil  
 Sample Date 1/25/2006

	Result	Units	LOD	LOQ	Dil	Method	Run Date	Analyst	Code
Dichlorodifluoromethane	< 25	ug/kg	16	50	1	8260B	2/1/2006	CJR	1
1,2-Dichloroethane	< 25	ug/kg	16	50	1	8260B	2/1/2006	CJR	1
1,1-Dichloroethane	< 25	ug/kg	19	60	1	8260B	2/1/2006	CJR	1
1,1-Dichloroethene	< 25	ug/kg	25	78	1	8260B	2/1/2006	CJR	1
cis-1,2-Dichloroethene	< 25	ug/kg	22	69	1	8260B	2/1/2006	CJR	1
trans-1,2-Dichloroethene	< 25	ug/kg	23	75	1	8260B	2/1/2006	CJR	1
1,2-Dichloropropane	< 25	ug/kg	16	51	1	8260B	2/1/2006	CJR	1
2,2-Dichloropropane	< 25	ug/kg	25	79	1	8260B	2/1/2006	CJR	1
1,3-Dichloropropane	< 25	ug/kg	14	46	1	8260B	2/1/2006	CJR	1
Di-isopropyl ether	< 25	ug/kg	12	39	1	8260B	2/1/2006	CJR	3
EDB (1,2-Dibromoethane)	< 25	ug/kg	14	46	1	8260B	2/1/2006	CJR	1
Ethylbenzene	< 25	ug/kg	8	25	1	8260B	2/1/2006	CJR	1
Hexachlorobutadiene	< 25	ug/kg	24	78	1	8260B	2/1/2006	CJR	1
Isopropylbenzene	< 25	ug/kg	10	33	1	8260B	2/1/2006	CJR	1
p-Isopropyltoluene	< 25	ug/kg	9.2	29	1	8260B	2/1/2006	CJR	1
Methylene chloride	< 25	ug/kg	21	67	1	8260B	2/1/2006	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	12	37	1	8260B	2/1/2006	CJR	1
Naphthalene	< 25	ug/kg	11	35	1	8260B	2/1/2006	CJR	1
n-Propylbenzene	< 25	ug/kg	12	39	1	8260B	2/1/2006	CJR	1
1,1,2,2-Tetrachloroethane	< 25	ug/kg	18	58	1	8260B	2/1/2006	CJR	1
1,1,1,2-Tetrachloroethane	< 25	ug/kg	17	55	1	8260B	2/1/2006	CJR	1
Tetrachloroethene	4100	ug/kg	18	57	1	8260B	2/1/2006	CJR	1
Toluene	< 25	ug/kg	13	41	1	8260B	2/1/2006	CJR	1
1,2,4-Trichlorobenzene	< 25	ug/kg	15	47	1	8260B	2/1/2006	CJR	1
1,2,3-Trichlorobenzene	< 25	ug/kg	20	62	1	8260B	2/1/2006	CJR	1
1,1,1-Trichloroethane	< 25	ug/kg	21	67	1	8260B	2/1/2006	CJR	1
1,1,2-Trichloroethane	< 25	ug/kg	21	67	1	8260B	2/1/2006	CJR	1
Trichloroethene (TCE)	29 "J"	ug/kg	15	46	1	8260B	2/1/2006	CJR	1
Trichlorofluoromethane	< 25	ug/kg	13	41	1	8260B	2/1/2006	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	12	37	1	8260B	2/1/2006	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	8.7	28	1	8260B	2/1/2006	CJR	1
Vinyl Chloride	< 25	ug/kg	13	39	1	8260B	2/1/2006	CJR	1
m&p-Xylene	< 50	ug/kg	31	99	1	8260B	2/1/2006	CJR	1
o-Xylene	< 25	ug/kg	20	64	1	8260B	2/1/2006	CJR	1

Lab Code 5012963C  
 Sample ID MW-1 (18-20)  
 Sample Matrix Soil  
 Sample Date 1/25/2006

	Result	Units	LOD	LOQ	Dil	Method	Run Date	Analyst	Code
General									
General									
Solids Percent	97.8	%			1	5021	2/1/2006	CJR	1
Organic									
VOC's									
Benzene	< 25	ug/kg	8.2	26	1	8260B	2/1/2006	CJR	1
Bromobenzene	< 25	ug/kg	20	62	1	8260B	2/1/2006	CJR	1
Bromodichloromethane	< 25	ug/kg	16	50	1	8260B	2/1/2006	CJR	1
Bromoform	< 25	ug/kg	24	76	1	8260B	2/1/2006	CJR	1
tert-Butylbenzene	< 25	ug/kg	7.7	24	1	8260B	2/1/2006	CJR	1
sec-Butylbenzene	< 25	ug/kg	6.7	21	1	8260B	2/1/2006	CJR	1
n-Butylbenzene	< 25	ug/kg	4.3	14	1	8260B	2/1/2006	CJR	1
Carbon Tetrachloride	< 25	ug/kg	14	44	1	8260B	2/1/2006	CJR	1
Chlorobenzene	< 25	ug/kg	14	46	1	8260B	2/1/2006	CJR	1

Project Name PARKVIEW HAVEN  
 Project # 38057027

Invoice # E12963

Lab Code 5012963C  
 Sample ID MW-1 (18-20)  
 Sample Matrix Soil  
 Sample Date 1/25/2006

	Result	Units	LOD	LOQ	Dil	Method	Run Date	Analyst	Code
Chloroethane	< 25	ug/kg	23	74	1	8260B	2/1/2006	CJR	1
Chloroform	< 25	ug/kg	8.2	26	1	8260B	2/1/2006	CJR	1
Chloromethane	< 25	ug/kg	19	60	1	8260B	2/1/2006	CJR	1
2-Chlorotoluene	< 25	ug/kg	4.7	15	1	8260B	2/1/2006	CJR	1
4-Chlorotoluene	< 25	ug/kg	4.3	14	1	8260B	2/1/2006	CJR	1
1,2-Dibromo-3-chloropropane	< 25	ug/kg	19	61	1	8260B	2/1/2006	CJR	1
Dibromochloromethane	< 25	ug/kg	18	56	1	8260B	2/1/2006	CJR	1
1,4-Dichlorobenzene	< 25	ug/kg	7.1	22	1	8260B	2/1/2006	CJR	1
1,3-Dichlorobenzene	< 25	ug/kg	17	53	1	8260B	2/1/2006	CJR	1
1,2-Dichlorobenzene	< 25	ug/kg	15	47	1	8260B	2/1/2006	CJR	1
Dichlorodifluoromethane	< 25	ug/kg	16	50	1	8260B	2/1/2006	CJR	1
1,2-Dichloroethane	< 25	ug/kg	16	50	1	8260B	2/1/2006	CJR	1
1,1-Dichloroethane	< 25	ug/kg	19	60	1	8260B	2/1/2006	CJR	1
1,1-Dichloroethene	< 25	ug/kg	25	78	1	8260B	2/1/2006	CJR	1
cis-1,2-Dichloroethene	< 25	ug/kg	22	69	1	8260B	2/1/2006	CJR	1
trans-1,2-Dichloroethene	< 25	ug/kg	23	75	1	8260B	2/1/2006	CJR	1
1,2-Dichloropropane	< 25	ug/kg	16	51	1	8260B	2/1/2006	CJR	1
2,2-Dichloropropane	< 25	ug/kg	25	79	1	8260B	2/1/2006	CJR	1
1,3-Dichloropropane	< 25	ug/kg	14	46	1	8260B	2/1/2006	CJR	1
Di-isopropyl ether	< 25	ug/kg	12	39	1	8260B	2/1/2006	CJR	3
EDB (1,2-Dibromoethane)	< 25	ug/kg	14	46	1	8260B	2/1/2006	CJR	1
Ethylbenzene	< 25	ug/kg	8	25	1	8260B	2/1/2006	CJR	1
Hexachlorobutadiene	< 25	ug/kg	24	78	1	8260B	2/1/2006	CJR	1
Isopropylbenzene	< 25	ug/kg	10	33	1	8260B	2/1/2006	CJR	1
p-Isopropyltoluene	< 25	ug/kg	9.2	29	1	8260B	2/1/2006	CJR	1
Methylene chloride	< 25	ug/kg	21	67	1	8260B	2/1/2006	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	12	37	1	8260B	2/1/2006	CJR	1
Naphthalene	< 25	ug/kg	11	35	1	8260B	2/1/2006	CJR	1
n-Propylbenzene	< 25	ug/kg	12	39	1	8260B	2/1/2006	CJR	1
1,1,2,2-Tetrachloroethane	< 25	ug/kg	18	58	1	8260B	2/1/2006	CJR	1
1,1,1,2-Tetrachloroethane	< 25	ug/kg	17	55	1	8260B	2/1/2006	CJR	1
Tetrachloroethene	164	ug/kg	18	57	1	8260B	2/1/2006	CJR	1
Toluene	< 25	ug/kg	13	41	1	8260B	2/1/2006	CJR	1
1,2,4-Trichlorobenzene	< 25	ug/kg	15	47	1	8260B	2/1/2006	CJR	1
1,2,3-Trichlorobenzene	< 25	ug/kg	20	62	1	8260B	2/1/2006	CJR	1
1,1,1-Trichloroethane	< 25	ug/kg	21	67	1	8260B	2/1/2006	CJR	1
1,1,2-Trichloroethane	< 25	ug/kg	21	67	1	8260B	2/1/2006	CJR	1
Trichloroethene (TCE)	< 25	ug/kg	15	46	1	8260B	2/1/2006	CJR	1
Trichlorofluoromethane	< 25	ug/kg	13	41	1	8260B	2/1/2006	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	12	37	1	8260B	2/1/2006	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	8.7	28	1	8260B	2/1/2006	CJR	1
Vinyl Chloride	< 25	ug/kg	13	39	1	8260B	2/1/2006	CJR	1
m&p-Xylene	< 50	ug/kg	31	99	1	8260B	2/1/2006	CJR	1
o-Xylene	< 25	ug/kg	20	64	1	8260B	2/1/2006	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code Comment

- 1 Laboratory QC within limits.
- 2 Relative percent difference failed for laboratory spiked samples.
- 3 The matrix spike not within established limits.

Authorized Signature Michael J. Ricker

**CHAIN OF CUSTODY RECORD**



**Environmental Lab, Inc.**

Chain # N<sup>o</sup> 3484

Page 1 of 1

1990 Prospect Ct. • Appleton, WI 54914  
920-830-2455 • FAX 920-733-0631

**Sample Handling Request**  
 \_\_\_ Rush Analysis Date Required \_\_\_  
 (Rushes accepted only with prior authorization)  
 Normal Turn Around

Lab I.D. # \_\_\_\_\_  
 Account No. : \_\_\_\_\_ Quote No.: \_\_\_\_\_  
 Project #: 38057027  
 Sampler: (signature) *Brett Losey*

Project (Name / Location): Parkview Haven  
 Reports To: *Brett Losey* Invoice To: *White*  
 Company *Terraco* Company *Terraco*  
 Address *3011 B E. Capitol Dr.* Address \_\_\_\_\_  
 City State Zip *Appleton, WI 54911* City State Zip \_\_\_\_\_  
 Phone *9204939096* Phone \_\_\_\_\_  
 FAX \_\_\_\_\_ FAX \_\_\_\_\_

Analysis Requested											
										Other Analysis	
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	PVOC (EPA 8021)	VOC (EPA 8260)	VOC DW (EPA 524.2)	PAH (EPA 8270)	Total Suspended Solids	Lead				PID/ FID

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	PVOC (EPA 8021)	VOC (EPA 8260)	VOC DW (EPA 524.2)	PAH (EPA 8270)	Total Suspended Solids	Lead	PID/ FID	
<del>S-27163A</del>	<del>MW-1</del>	<del>11/25/06</del>	<del>1420</del>			<del>N</del>	<del>3</del>	<del>GW</del>	<del>HCL</del>				<del>X</del>						
<del>11 B</del>	<del>MW-1(3-5)</del>	<del>11/20</del>	<del>1320</del>			<del>↓</del>	<del>2</del>	<del>S</del>	<del>MCOY</del>				<del>X</del>						
<del>4 C</del>	<del>MW-1(18-20)</del>	<del>1325</del>	<del>1325</del>			<del>↓</del>	<del>↓</del>	<del>↓</del>	<del>↓</del>				<del>X</del>						
<del>11 D</del>	<del>MW-1(43-45)</del>	<del>1330</del>	<del>1330</del>			<del>↓</del>	<del>↓</del>	<del>↓</del>	<del>↓</del>				<del>X</del>						

Comments/Special Instructions (\*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

*MW-1(43-45) on HOLD!!! Cancel per Milan CSR 2/1/06*

Sample Integrity - To be completed by receiving lab. Method of Shipment: _____ Temp. of Temp. Blank _____ °C On Ice: _____ Cooler seal intact upon receipt: Yes ___ No ___	Relinquished By: (sign) <i>[Signature]</i>	Time 830	Date 1/26/06	Received By: (sign) <i>[Signature]</i>	Time 0830	Date 1/26/06
	<i>[Signature]</i>	1730	1/26/06			
	Received in Laboratory By: <i>[Signature]</i>	Time: 1730	Date: 1/26/06			



07-36-545011

State of Wisconsin  
 Department of Natural Resources  
 Box 7921, Madison, WI 53707-7921  
 dnr.wi.gov

**Off-Site Liability Exemption and  
 Liability Clarification Application**  
 Form 4400-201 (R 2/05) Page 1 of 6

**Notice:** Personally identifiable information that is collected will be used to process your application and will also be accessible to others by request under Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.]

**Definitions:**

**"Off-Site Exemption"** refers to a statutory limit on liability available to a person with respect to the existence of a hazardous substance in the groundwater or soil, including sediments, on Property possessed or controlled by the person, as provided in s. 292.13, Wis. Stats. The off-site exemption is available only to persons who possess or control the affected property, who meet the requirements and criteria in the statutes. DNR provides a written determination regarding liability upon submittal of this application and the required fee.

**"General Liability Clarification"** refers to a written determination by the Department, as provided in s. 292.55, Wis. Stats., that clarifies the environmental liability of a person, business or another party for a specific situation. General liability clarifications can be provided in situations when the party requesting the clarification does not meet one of the requirements for the off-site exemption at the time of the application submittal, for example, does not yet own the off-site property. This application form should be used to request a written liability clarification for property affected by an off-site discharge.

**"Property"** refers to the subject property that has been impacted by hazardous substances that migrated there from a different property containing the original contamination source. The subject property is often referred to as an "off-site" or "off-source" property.

**"Possession or control"** refers to holding title to the property or exercising possession or control over the property by some other means, such as a lease.

[NOTE: a person with an easement doesn't have possession or control over the property; the property owner just allows the person to use part of the property for a limited purpose].

**Instructions:**

- Use this application to request a written determination from the Department for the off-site liability exemption or for the liability clarification regarding **property affected by an off-site discharge**. See DNR's Fact Sheet 10 Off-Site Contamination: How Does It Affect My Property? (PUB-RR-589 April 2004) for general information on eligibility requirements, liability clarification letters related to the off-site liability exemption, and property owner responsibilities. Information and these publications are available by contacting a DNR office or on the Internet at: <http://dnr.wi.gov/org/aw/rr/>.
- Complete the application and include the information that adequately shows that the required criteria are met. See Section 7 on page 4.
- Include a \$500 fee payment with this application, in accordance with ch. NR 749, Wis. Adm. Code.
- Send the completed application, fee, and supporting materials to the DNR regional office where the Property is located, as listed on page 6. Contact the person listed with any questions.
- The Department will not consider your application complete unless you provide the information requested and the fee. Review of the application does not begin until the application is complete.
- Department staff will make every attempt to provide timely written determinations. However, the time required for the determination varies depending on the complexity of the site, and the clarity and completeness of the application and supporting documentation.

**Do not use this application form to request liability clarifications for properties without off-site contamination.** Contact one of the DNR regional offices or see the DNR website on the Internet for more information.

**1. Applicant information for person requesting the determination.**

<b>Applicant Last Name</b>				First	MI
Intra-City Parishes of Manitowoc, Inc.					
<b>Address</b>		<b>City</b>	<b>State</b>	<b>ZIP Code</b>	
1325 N 8th St		Manitowoc	WI	54220	
<b>Telephone Number</b>		<b>Fax Number</b>	<b>E-Mail Address</b>		
<b>Contact for questions (if different than applicant) Last Name</b>				First	MI
DePouw				Kenneth	
<b>Address</b>		<b>City</b>	<b>State</b>	<b>ZIP Code</b>	
200 Brazeau Avenue		Oconto	WI	54153	
<b>Telephone Number</b>		<b>Fax Number</b>	<b>E-Mail Address</b>		
920-835-5150		920-835-2929			

**2. Applicant eligibility for off-site exemption or off-site liability clarification.**

Request one determination based on whether the requirements for the off-site exemption are currently met. See page 5 and sign the appropriate certification.

**Off-Site Discharge Exemption – I "possess or control" the Property and I believe I meet the criteria for an off-site exemption. I request an off-site exemption letter.**

I have completed Section 8a on page 5.

As the applicant, I am:

Current owner

Other\* Explain your relationship to the Property or the nature of your possession or control of the Property:

Note: Intra-City Parishes of Manitowoc, Inc. is the owner of Parkview Haven Apartments, Housing Management Services, which is managed by Mr. Kenneth DePouw, as the property manager for the apartment complex.

\*Additional documentation may be requested by the DNR to verify the applicant's possession or control of the Property. For example, if a lessee requests a determination, DNR would need a copy of the lease by which to assess whether the lessee possesses or controls the Property.

**Off-site Liability Clarification – I lack one or more of the requirements for the off-site exemption as shown below. I request a liability clarification letter that explains which conditions must be met in order to qualify for the off-site liability exemption.**

I have completed Section 8b on page 5.

Requirements for the off-site exemption that are missing:

1. Currently I do not possess or control the Property and

I plan to buy the Property on \_\_\_\_\_ (Date) or

I plan to lease the Property on \_\_\_\_\_ (Date).

2. Currently no contamination has been detected on the Property but there is credible evidence that contamination has migrated onto the Property.

3. Multiple contiguous properties are believed to be affected by contamination from a known source.

4. Other: Explain the circumstances here or in an attachment.

**3. Information on additional parties.**

Check the appropriate box to have a copy of the determination letter sent to one or more of these parties:

<input checked="" type="checkbox"/> <b>Environmental Consultant</b>		First		MI	
Terracon Consultants, Inc.		Mylan A. Koski, Jr.			
Address		City		State	ZIP Code
3011B E Capitol Dr.		Appleton		WI	54911
Telephone Number		Fax Number		E-Mail Address	
920-993-9096		920-993-9108		makoski@terracon.com	
<input type="checkbox"/> <b>Attorney / Other Last Name</b>		First		MI	
Address		City		State	ZIP Code
Telephone Number		Fax Number		E-Mail Address	

**4. Information on Property affected by off-site discharge.**

<b>Property / Facility Name</b> Parkview Haven Apartments					<b>County</b>				
<b>Address</b> 1325 N 8th St				<b>City</b> Manitowoc			<b>State</b> WI	<b>ZIP Code</b> 54220	
<b>Public Land Survey Coordinates</b>					<b>Latitude</b> N 44 6' 47.8"			<b>Longitude</b> W 87 39' 23.3"	
<b>1/4 / 1/4</b> SW	<b>1/4</b> SW	<b>Section</b> 17	<b>Range E / W</b> 24E	<b>Township</b> 19 N	<b>Datum (check only one):</b> <input type="checkbox"/> NAD27 <input checked="" type="checkbox"/> NAD83 <input type="checkbox"/> 1990 Adjustment			<b>Method</b> WDNR GIS Registry	<b>Accuracy</b>

(Attach a list of locations if this request is for multiple properties.)

I request that DNR provide a copy of the Liability Clarification Letter to the current owner.

<b>Current Owner (if different than applicant) Last Name</b>				<b>First</b>		<b>MI</b>	
<b>Address</b>				<b>City</b>		<b>State</b>	<b>ZIP Code</b>
<b>Telephone Number</b>		<b>Fax Number</b>		<b>E-Mail Address</b>			

**5. Information about contamination on the impacted Property.**

A. Have hazardous substances been detected on the Property or Properties?

No. If not, explain why contamination is suspected on the Property or Properties in an attachment or here:

Yes. Check all that apply:  Groundwater  Soil  Sediment  Other, describe: \_\_\_\_\_

B. Has the presence of contamination been reported to any State or local governmental agency?

No.

If yes, check all that apply:  DNR Date Reported: 11/8/2005

- Division of Emergency Government
- Commerce
- Department of Agriculture, Trade and Consumer Protection (DATCP)
- Other, describe: \_\_\_\_\_

C. Is the source of the contamination known? Check only one.

No.

Yes. If yes, what is the source of the contamination? Discharge of PCE from United Drycleaners

Provide the name and address of the owner of the contamination source or source property, if known.

<b>Owner Name</b> United Drycleaners, Mr. James Ellsen Jr.				
<b>Address</b> 623 Reed Avenue		<b>City</b> Manitowoc	<b>State</b> WI	<b>ZIP Code</b> 54220

Suspected. If suspected to be migrating from a nearby source, what is the source and its address?

Provide the name of the owner of the suspected contamination source or source property, if known.

<b>Owner Name</b>				
<b>Address</b>		<b>City</b>	<b>State</b>	<b>ZIP Code</b>

**6. Specific liability clarification questions relating to off-site contamination.**

I have no additional liability clarification questions.

I request a DNR response to the questions provided to clarify my liability for the cleanup of off-site contamination to be included in the written determination (questions should be provided here or in an attachment) :

**7. Property information needed for the determination of off-site exemption or off-site liability clarification.**

DNR requires adequate information in order to make the determination requested in this application. Incomplete or inadequate information will delay the completion of the determination. DNR has the authority to request additional information, if needed.

Include the following information with the application, if appropriate:

1. Map(s) showing Property location(s) and any suspected or known off-site contaminant source properties.
2. For any environmental data submitted, include:
  - a) Property map(s) showing sampling locations for all data submitted;
  - b) Interpretation of data signed by a qualified environmental professional, including data tables and figures that include data;
  - c) Soil boring logs;
  - d) Groundwater monitoring well construction, development and sampling logs;
  - e) Laboratory-provided data reports;
  - f) Survey information for groundwater elevations;
  - g) Chain of custody forms for all samples; and
  - h) Description of sample collection methods.

The submitted materials should document that the statutory criteria are satisfied regarding the contamination and its source as listed in A through C below.

- A. Document that there is hazardous substance contamination present in soil, groundwater and/or sediment on the Property or Properties. Examples of information include: Analytical results and interpretations for samples collected from soil, groundwater, and/or sediment on the Property, or at or near the Property line, that conclusively document the presence of a hazardous substance in one or more of these media on the Property. This information could be documented in a Phase II Environmental Assessment report, or could refer to existing reports in DNR files related to the source property.
- B. Document that the hazardous substance contamination, which is present in soil, groundwater, and/or sediment on the Property or Properties, is migrating onto the Property or Properties from an off-site source.

Examples of information include:

1. Information identifying known or suspected discharges of the hazardous substance on neighboring property(ies), e.g., a Phase I Environmental Assessment report, information in existing reports in DNR files related to the source property.
2. Soil, groundwater and/or sediment sample data and interpretations adequate to conclude that the hazardous substance is migrating onto the Property or Properties, such as:
  - Samples from monitoring wells located on the upgradient side of the Property or Properties (include information to establish upgradient direction), which show increasing contaminant concentrations toward the upgradient Property or Properties;
  - Off-site investigation results that provide information about groundwater flow direction and contaminant movement that convincingly document hazardous substances from a known or suspected off-site source have impacted the Property or Properties; or
  - A description of the event(s) that caused the deposit or accumulation of contaminated sediment on the affected Property or Properties and a map showing the location of the water body and elevations of the affected Property or Properties and water surface at normal flow and flood stage conditions.
- C. Document that the discharge of a hazardous substance is not from a source on the Property or Properties.

Examples of information include:

1. Information related to historical activities, such as descriptions of chemicals used and handled, areas where chemicals were used and handled, and areas of potential discharges on the Property or Properties, e.g., a Phase I Environmental Assessment report.
2. Where the types of hazardous substances used, handled, or discharged on the Property or Properties are the same as the hazardous substances migrating onto the Property or Properties, provide environmental information, e.g., expanded Phase II environmental assessment data, including type and volume of hazardous substances handled, generated or stored on the applicant's Property during the period of ownership and/or length of lease, and analytical results and interpretation for soil and groundwater samples collected from potential discharge areas to demonstrate that the contamination migrating onto the Property is separate and distinct from the contamination that may be on the Property.

Off-Site Liability Exemption and Liability Clarification Application

Form 4400-201 (R 2/05)

Page 5 of 6

8a. Sign one of the certifications below based on whether the requirements of the off-site exemption are currently met.

8a. Certification if the applicant currently meets all the requirements for the off-site liability exemption.

Applicant Certification for a Determination for the Off-Site Discharge Exemption, as provided in s. 292.13, Wis. Stats.

I certify that I possess or control the Property and have read and am familiar with the information on this application. The information on and included with this application is true, accurate and complete to the best of my knowledge.

I understand that I retain the responsibility for any hazardous substance discharges that I caused or cause, and for any discharges whose source I possess or control on the Property or on other properties.

I believe that I meet the criteria in s. 292.13, Wis. Stats., with respect to the fact that I never controlled or possessed either the source property itself, or the hazardous substances that have migrated onto the Property from the source property, nor did I cause the hazardous substance discharge for which I am seeking this written exemption.

I understand that if I fail to satisfy the statutory requirements in s. 292.13, Wis. Stats., such as failing to provide access to the Property, the DNR has the authority to revoke the off-site exemption for the Property.

Applicant Last Name DE POW	First KENNETH	MI J.
Signature <i>Kenneth J. De Pouv</i> MANAGEMENT AGENT		Date Signed 3/3/06

8b. Certification if applicant has not currently met all the conditions for the off-site exemption.

Applicant Certification for a Determination for Liability Clarification, as provided in s. 292.55, Wis. Stats.

I certify that I have read and am familiar with the information on this application and that the information on and included with this application is true, accurate and complete to the best of my knowledge.

I understand that I retain the responsibility for any hazardous substance discharges that I caused or cause, and for any discharges whose source I possess or control on the Property or Properties or on other properties.

It is my understanding that I have not met all the conditions for the off-site exemption at the time of this application, but I request a liability clarification determination that includes the conditions under which I or others would become eligible for the off-site discharge exemption for the Property or Properties, if I were to meet all the criteria under s. 292.13, Wis. Stats. I believe that I meet the criteria regarding the source of the contamination and the source property in s. 292.13, Wis. Stats., with respect to the fact that I never controlled or possessed either the source property itself, or the hazardous substances that have migrated onto the Property or Properties from the source property, nor did I cause the hazardous substance discharge for which I am seeking this written exemption.

I understand that if I meet the criteria in s. 292.13, Wis. Stats., and obtain the off-site liability exemption, but subsequently fail to satisfy the statutory requirements in s. 292.13, Wis. Stats., such as failing to provide access to the Property, the DNR has the authority to revoke the off-site exemption for the Property.

Applicant Last Name	First	MI
Signature		Date Signed