

# GIS REGISTRY

## Cover Sheet

March, 2010  
(RR 5367)

### Source Property Information

**BRRTS #:**

**ACTIVITY NAME:**

**PROPERTY ADDRESS:**

**MUNICIPALITY:**

**PARCEL ID #:**

**CLOSURE DATE:**

**FID #:**

**DATCP #:**

**COMM #:**

#### \*WTM COORDINATES:

X:  Y:

*\* Coordinates are in  
WTM83, NAD83 (1991)*

#### WTM COORDINATES REPRESENT:

- Approximate Center Of Contaminant Source
- Approximate Source Parcel Center

**Please check as appropriate:** (BRRTS Action Code)

#### Contaminated Media:

- Groundwater Contamination > ES (236)**
- Contamination in ROW
- Off-Source Contamination  
*(note: for list of off-source properties see "Impacted Off-Source Property" form)*
- Soil Contamination > \*RCL or \*\*SSRCL (232)**
- Contamination in ROW
- Off-Source Contamination  
*(note: for list of off-source properties see "Impacted Off-Source Property" form)*

#### Land Use Controls:

- N/A (Not Applicable)
- Soil: maintain industrial zoning (220)  
*(note: soil contamination concentrations between non-industrial and industrial levels)*
- Structural Impediment (224)
- Site Specific Condition (228)
- Cover or Barrier (222)  
*(note: maintenance plan for groundwater or direct contact)*
- Vapor Mitigation (226)
- Maintain Liability Exemption (230)  
*(note: local government unit or economic development corporation was directed to take a response action)*

#### Monitoring Wells:

Are all monitoring wells properly abandoned per NR 141? (234)

- Yes  No  N/A

*\* Residual Contaminant Level  
\*\*Site Specific Residual Contaminant Level*

This Adobe Fillable form is intended to provide a list of information that is required for evaluation for case closure. It is to be used in conjunction with Form 4400-202, Case Closure Request. The closure of a case means that the Department has determined that no further response is required at that time based on the information that has been submitted to the Department.

**NOTICE: Completion of this form is mandatory** for applications for case closure pursuant to ch. 292, Wis. Stats. and ch. NR 726, Wis. Adm. Code, including cases closed under ch. NR 746 and ch. NR 726. The Department will not consider, or act upon your application, unless all applicable sections are completed on this form and the closure fee and any other applicable fees, required under ch. NR 749, Wis. Adm. Code, Table 1 are included. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than reviewing closure requests and determining the need for additional response action. The Department may provide this information to requesters as required by Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].

BRRTS #:  PARCEL ID #:   
ACTIVITY NAME:  WTM COORDINATES: X:  Y:

**CLOSURE DOCUMENTS** (the Department adds these items to the final GIS packet for posting on the Registry)

- Closure Letter**
- Maintenance Plan** (if activity is closed with a land use limitation or condition (land use control) under s. 292.12, Wis. Stats.)
- Continuing Obligation Cover Letter** (for property owners affected by residual contamination and/or continuing obligations)
- Conditional Closure Letter**
- Certificate of Completion (COC)** (for VPLE sites)

**SOURCE LEGAL DOCUMENTS**

- Deed:** The most recent deed as well as legal descriptions, for the **Source Property** (where the contamination originated). Deeds for other, off-source (off-site) properties are located in the **Notification** section.  
**Note:** If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.
- Certified Survey Map:** A copy of the certified survey map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map. (lots on subdivided or platted property (e.g. lot 2 of xyz subdivision)).  
**Figure #:** --      **Title:** **Certified Survey Map #538**
- Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes that the attached legal description accurately describes the correct contaminated property.

**MAPS** (meeting the visual aid requirements of s. NR 716.15(2)(h))

Maps must be no larger than 11 x 17 inches unless the map is submitted electronically.

- Location Map:** A map outlining all properties within the contaminated site boundaries on a U.S.G.S. topographic map or plat map in sufficient detail to permit easy location of all parcels. If groundwater standards are exceeded, include the location of all potable wells within 1200 feet of the site.  
**Note:** Due to security reasons municipal wells are not identified on GIS Packet maps. However, the locations of these municipal wells must be identified on Case Closure Request maps.  
**Figure #:** 1      **Title:** **Site Location Map**
- Detailed Site Map:** A map that shows all relevant features (buildings, roads, individual property boundaries, contaminant sources, utility lines, monitoring wells and potable wells) within the contaminated area. This map is to show the location of all contaminated public streets, and highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding a ch. NR 140 Enforcement Standard (ES), and/or in relation to the boundaries of soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Levels (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19.  
**Figure #:** 2      **Title:** **Site Configuration**
- Soil Contamination Contour Map:** For sites closing with residual soil contamination, this map is to show the location of all contaminated soil and a single contour showing the horizontal extent of each area of contiguous residual soil contamination that exceeds a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19.  
**Figure #:**      **Title:**

NA

BRRTS #: 03-35-532428

ACTIVITY NAME: FRUEND, LESTER FARM

**MAPS (continued)**

- Geologic Cross-Section Map:** A map showing the source location and vertical extent of residual soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL). If groundwater contamination exceeds a ch. NR 140 Enforcement Standard (ES) when closure is requested, show the source location and vertical extent, water table and piezometric elevations, and locations and elevations of geologic units, bedrock and confining units, if any.

**Figure #: 3**                      **Title: Geologic Cross Section A - A'**

**Figure #:**                      **Title:**

- Groundwater Isoconcentration Map:** For sites closing with residual groundwater contamination, this map shows the horizontal extent of all groundwater contamination exceeding a ch. NR140 Preventive Action Limit (PAL) and an Enforcement Standard (ES). Indicate the direction and date of groundwater flow, based on the most recent sampling data.

**Note:** This is intended to show the total area of contaminated groundwater.

**Figure #: 7**                      **Title: Groundwater Benzene Contaminant Distribution**

- Groundwater Flow Direction Map:** A map that represents groundwater movement at the site. If the flow direction varies by more than 20° over the history of the site, submit 2 groundwater flow maps showing the maximum variation in flow direction.

**Figure #: 8**                      **Title: Potentiometric Surface**

**Figure #:**                      **Title:**

**TABLES (meeting the requirements of s. NR 716.15(2)(h)(3))**

Tables must be no larger than 11 x 17 inches unless the table is submitted electronically. Tables must not contain shading and/or cross-hatching. The use of **BOLD** or *ITALICS* is acceptable.

- Soil Analytical Table:** A table showing remaining soil contamination with analytical results and collection dates.  
**Note:** This is one table of results for the contaminants of concern. Contaminants of concern are those that were found during the site investigation, that remain after remediation. It may be necessary to create a new table to meet this requirement.

**Table #: 1**                      **Title: Soil Sample Laboratory Analytical Results**

- Groundwater Analytical Table:** Table(s) that show the most recent analytical results and collection dates, for all monitoring wells and any potable wells for which samples have been collected.

**Table #: 2**                      **Title: Groundwater Sample Laboratory Analytical Results**

- Water Level Elevations:** Table(s) that show the previous four (at minimum) water level elevation measurements/dates from all monitoring wells. If present, free product is to be noted on the table.

**Table #: 2**                      **Title: Groundwater Sample Laboratory Analytical Results**

**IMPROPERLY ABANDONED MONITORING WELLS**

For each monitoring well not properly abandoned according to requirements of s. NR 141.25 include the following documents.

**Note:** If the site is being listed on the GIS Registry for only an improperly abandoned monitoring well you will only need to submit the documents in this section for the GIS Registry Packet.

- Not Applicable**

- Site Location Map:** A map showing all surveyed monitoring wells with specific identification of the monitoring wells which have not been properly abandoned.

**Note:** If the applicable monitoring wells are distinctly identified on the Detailed Site Map this Site Location Map is not needed.

**Figure #:**                      **Title:**

- Well Construction Report:** Form 4440-113A for the applicable monitoring wells.

- Deed:** The most recent deed as well as legal descriptions for each property where a monitoring well was not properly abandoned.

- Notification Letter:** Copy of the notification letter to the affected property owner(s).

BRRTS #: 03-35-532428

ACTIVITY NAME: FRUEND, LESTER FARM

## NOTIFICATIONS

### Source Property

**Not Applicable**

**Letter To Current Source Property Owner:** If the source property is owned by someone other than the person who is applying for case closure, include a copy of the letter notifying the current owner of the source property that case closure has been requested.

**Return Receipt/Signature Confirmation:** Written proof of date on which confirmation was received for notifying current source property owner.

### Off-Source Property

Group the following information per individual property and label each group according to alphabetic listing on the "Impacted Off-Source Property" attachment.

**Not Applicable**

**Letter To "Off-Source" Property Owners:** Copies of all letters sent by the Responsible Party (RP) to owners of properties with groundwater exceeding an Enforcement Standard (ES), and to owners of properties that will be affected by a land use control under s. 292.12, Wis. Stats.

*Note: Letters sent to off-source properties regarding residual contamination must contain standard provisions in Appendix A of ch. NR 726.*

#### Number of "Off-Source" Letters:

**Return Receipt/Signature Confirmation:** Written proof of date on which confirmation was received for notifying any off-source property owner.

**Deed of "Off-Source" Property:** The most recent deed(s) as well as legal descriptions, for all affected deeded **off-source property(ies)**. This does not apply to right-of-ways.

*Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.*

**Letter To "Governmental Unit/Right-Of-Way" Owners:** Copies of all letters sent by the Responsible Party (RP) to a city, village, municipality, state agency or any other entity responsible for maintenance of a public street, highway, or railroad right-of-way, within or partially within the contaminated area, for contamination exceeding a groundwater Enforcement Standard (ES) and/or soil exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL).

#### Number of "Governmental Unit/Right-Of-Way Owner" Letters:

State of Wisconsin  
DEPARTMENT OF NATURAL RESOURCES  
Northern Region Headquarters  
810 W. Maple Street  
Spooner WI 54801

Scott Walker, Governor  
Cathy Stepp, Secretary  
John Gozdziński, Regional Director  
Telephone 715-635-2101  
FAX 715-635-4105  
TTY Access via relay - 711



March 16, 2011

Mr. Stewart Smith  
Prairie Woods and Streams, LLC  
1545 County Highway W  
Merrill, WI 54452

SUBJECT: Final Case Closure  
Fruend, Lester Farm, N1591 County Highway W, Merrill, WI  
WDNR BRRTS Activity #: 03-35-532428

Dear Mr. Smith:

On January 15, 2010, you were notified that the Wisconsin Department of Natural Resources ("Department") Northern Region Closure Committee ("Closure Committee") had reviewed and granted conditional closure to the Fruend, Lester Farm site referenced above ("Site"). On December 6, 2010 the Department received documentation of monitoring well abandonment from Endeavor Environmental Services ("Endeavor").

Based on the information provided by Endeavor you have complied with the requirements for final closure and this Site has now met the closure requirements in ch. NR 726, Wisconsin Administrative Code. The Department considers this Site closed and no further investigation or remediation is required at this time. However, you and future property owners must comply with continuing obligations regarding remaining groundwater contamination as explained in this letter.

Groundwater contaminated with benzene and naphthalene greater than the ch. NR140, Wis. Adm. Code enforcement standards is present on this Site. Figure 1-Site Location Map provides an overview of the property and Figure 2-Site Configuration Map provides context to define the area impacted with contaminated groundwater while Figure 7 Groundwater Benzene Contamination Distribution (12-18-2007) shows the area of impacted groundwater. The figures were prepared by Endeavor Environmental Services and are attached.

If you intend to construct or reconstruct a well, you will need prior Department approval in accordance with s. NR 812.09(4) (w), Wis. Adm. Code. To obtain approval, Form 3300-254 needs to be completed and submitted to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line at <http://dnr.wi.gov/org/water/dwg/3300254.pdf> or at the web address listed above for the GIS Registry.

This Site will be listed on the Remediation and Redevelopment Program's internet accessible Geographic Information System ("GIS") Registry to provide public notice of remaining Groundwater contamination present at the Site. This letter and information submitted with your closure request will be included on the GIS Registry. To review sites on the GIS Registry, visit the RR Sites Map web page at <http://dnr.wi.gov/org/aw/rr/gis/index.htm>. The complete file for this Site is located at the Northern Region DNR office, at 107 Sutliff Avenue, Rhinelander, Wisconsin.

The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything outlined in this letter, please contact John Sager at (715) 365-8959.

Sincerely,



John Robinson  
Northern Region Team Supervisor  
Remediation & Redevelopment Program

Enclosures: Figure 1-Site Location Map  
Figure 2-Site Configuration Map  
Figure 7 Groundwater Benzene Contamination Distribution Map

C: Mr. Joseph Ramcheck, Endeavor Environmental Services, Inc.

# FIGURE 1 - SITE LOCATION MAP



### Legend

- Railroads
- Major Highways
  - Interstate
  - US Highway
  - State Highway
- Local Roads
- Civil Towns
  - Civil Town
  - 24K Open Water
  - 24K Rivers and Shorelines
- Municipalities

0 550 1100 1650 ft.

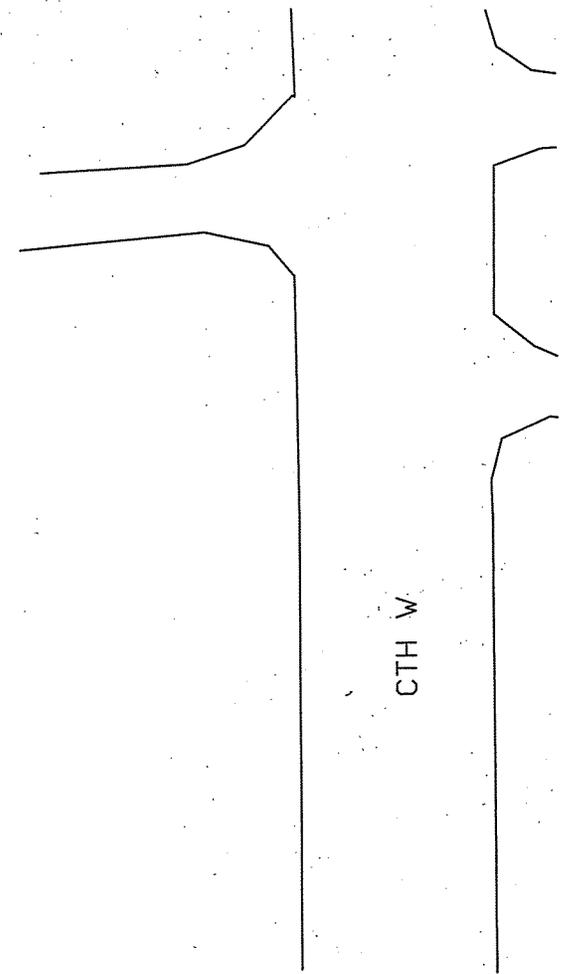
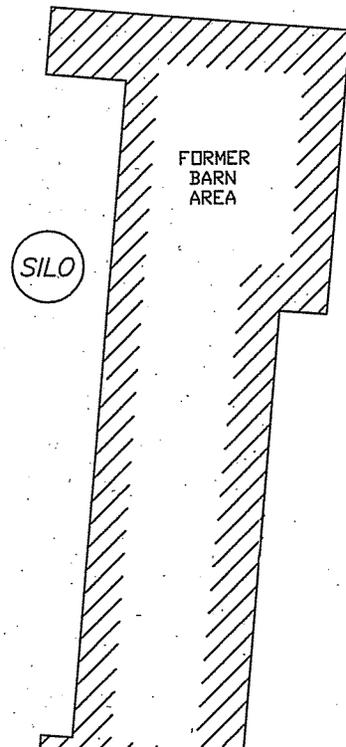
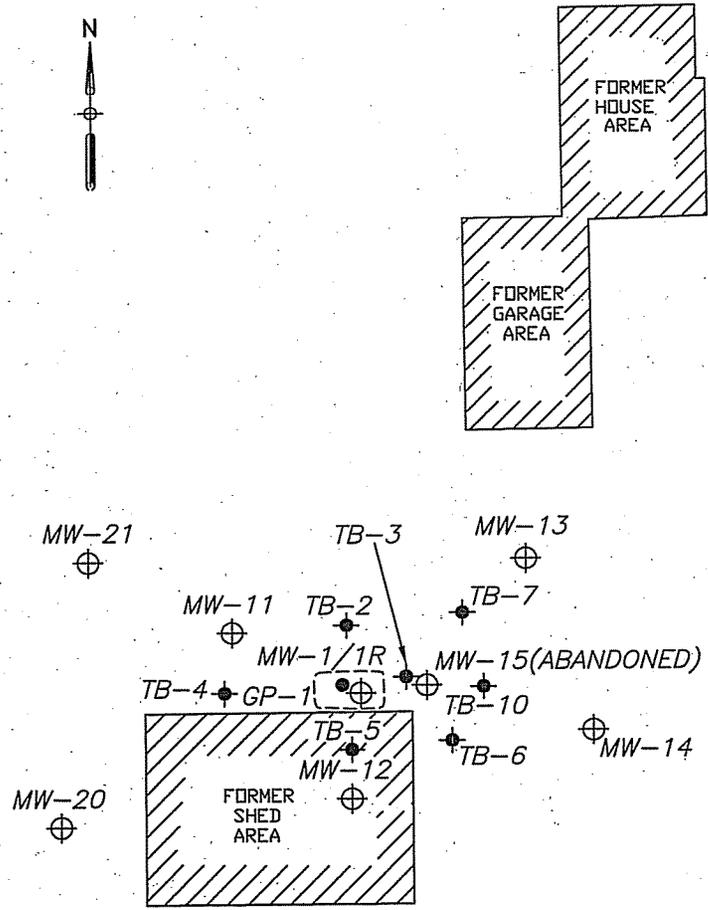
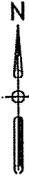
Map created on Dec 31, 2008

Note: Not all RR Sites have been geo-located yet.



Scale: 1:5,922

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

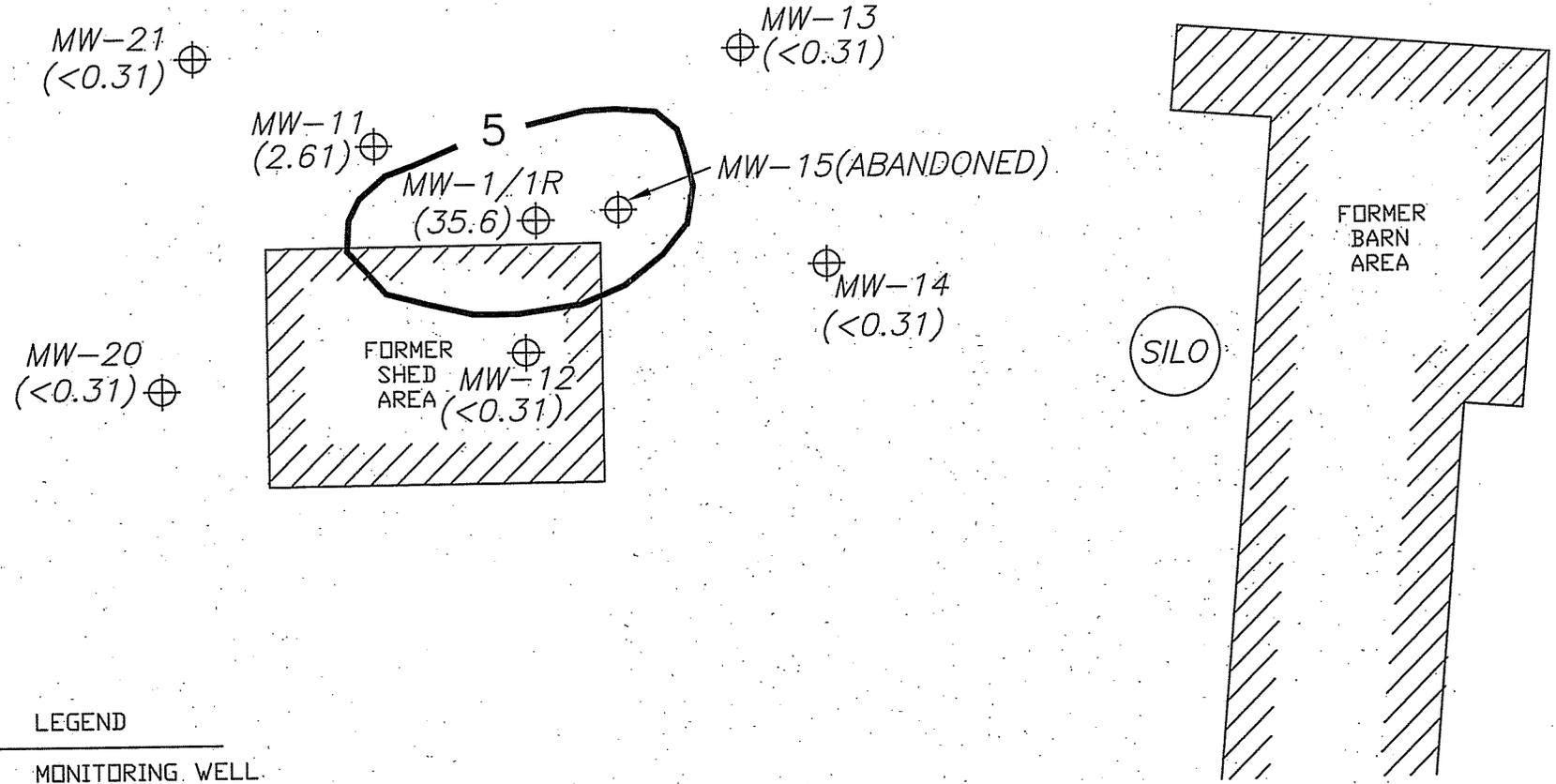
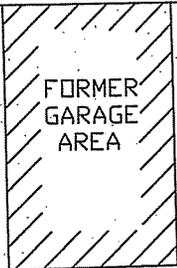


LEGEND

- MONITORING WELL
- FORMER BUILDING AREA
- TEST BORING
- GEOPROBE BORING
- FORMER UST CAVITY

FIGURE 2  
 SITE CONFIGURATION  
 FREUND PROPERTY  
 MERRILL, WISCONSIN

SCALE	SHEET NO.	DWG NO.	DATE	SIZE	DRWN BY	FILE	REVISED	APP'D
1" = 40'	1 OF 1	PD4436.41.2.2	12/30/08	A	SVD	223		



LEGEND



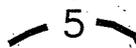
MONITORING WELL



FORMER BUILDING AREA

(35.6)

BENZENE CONCENTRATION REPORTED IN ppb



EXTENT OF GROUNDWATER BENZENE CONTAMINATION EXCEEDING NR140 ENFORCEMENT STANDARD

FIGURE 7  
GROUNDWATER BENZENE  
CONTAMINANT DISTRIBUTION (12-18-2007)  
FREUND PROPERTY  
MERRILL, WISCONSIN

SCALE	SHEET NO.	DWG NO.	DATE	SIZE	DRWN BY	FILE	REVISED	APP'D
1" = 30'	1 DF 1	P04436.41.7.1	12/29/08	A	SVD	223	JR	

DOCUMENT NO. 303709

WARRANTY DEED STATE BAR OF WISCONSIN FORM 2 - 1982

THIS SPACE RESERVED FOR RECORDING DATA

LINCOLN COUNTY, WIS.

Received for Record the 27 day of July A.D. 1989 3:25 o'clock P.M. and Recorded in Vol. 452 of RECORDS on page 410

REGISTER OF DEEDS

RETURN TO S N + A Hoochey

Lester Freund a/k/a Lester L. Freund a/k/a Leslie Freund and Doris Freund a/k/a Doris M. Freund, husband and wife

conveys and warrants to Stuart Smith

the following described real estate in Lincoln County, State of Wisconsin:

Tax Parcel No:

Lots One (1) and Two (2) of Certified Survey Map No. 538 as recorded July 12, 1989, in Volume 2 of C.S. Maps, page 464 as Document No. 303483, being part of the E 1/2 NW 1/4 Section 17, Township 31 North of Range 7 East.

TRANSFER \$1,160.10 PER

This is homestead property. (is) (is not)

Exception to warranties: Restrictions and easements of record, municipal and zoning ordinances, and current taxes and assessments not yet due.

Dated this 26th day of July, 1989

Signatures of Lester Freund, Doris Freund, Lester Freund a/k/a Lester L. Freund a/k/a Leslie Freund, and Doris Freund a/k/a Doris M. Freund

AUTHENTICATION

ACKNOWLEDGMENT

Signature(s)

STATE OF WISCONSIN

authenticated this day of 1989

Lincoln County, ss.

TITLE: MEMBER STATE BAR OF WISCONSIN

Personally came before me this 26th day of July, 1989 the above named Lester Freund a/k/a Lester L. Freund a/k/a Leslie Freund and Doris Freund a/k/a Doris M. Freund

(If not, authorized by § 706.06, Wis. Stats.)

to me known to be the person who executed the foregoing instrument and acknowledge the same.

THIS INSTRUMENT WAS DRAFTED BY George G. Russell of the firm of Russell & Flusty.

Notary Public Mary Urban Lincoln County, Wis. My Commission is permanent (If not, state expiration date: 8-30-92, 1989)

(Signatures may be authenticated or acknowledged. Both are not necessary.)

\*Names of persons signing in any capacity should be typed or printed below their signatures

## CERTIFICATION OF LEGAL DESCRIPTION

Parcel Identification Number: 01661071729986

Site Address: N1591 County Hwy W, Merrill, Wisconsin 54452

### Legal Description

Lot 1 of Certified Survey Map No. 538 as recorded July 12, 1989, in volume 2 of Certified Survey Maps, Page 464 as Document No. 303483, being part of the East ½ of the Northwest ¼ Section 17, Township 31 North, Range 7 East, Town of Pine River, Lincoln County, Wisconsin.

### Certification

As Personal Representative for the Estate of Stuart Smith (Responsible Party-deceased),

I Tom Lindstrom certify that the legal description provided above and on the attached Warranty Deed is complete and accurate to the best of my knowledge. The legal description correctly describes the parcel affected by residual petroleum groundwater contamination for which conditional case closure is being requested.

A copy of the referenced Certified Survey Map for the area of the site has been attached.

This statement is in conjunction with the Wisconsin Department of Commerce GIS Registry Packet, PUB-RR-688.

Signature



Personal Rep for Stuart Smith

Title

Personal Rep

Date

11/25/09

303483

# CERTIFIED SURVEY MAP #538

PART OF THE NE 1/4 AND THE SE 1/4, OF THE NW 1/4 OF SECTION 17, T31N, R7E,  
LINCOLN COUNTY, WISCONSIN



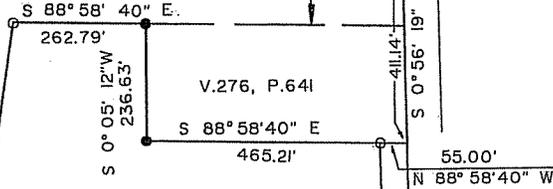
*Donald D. Frisque*  
7/11/89  
VARIES



NORTH REFERENCED TO THE  
N-S 1/4 LINE 17-31-7  
BRNG. S 0° 56' 19" E

U.S.H. 51

S.T.H. 64



LOT 1  
AREA = 1,137,482 SQ.FT.  
26.113 A.

966.01' S 89° 51' 11" W

LOT 2  
AREA = 884,024 SQ.FT.  
20.294 A.

1024.02' N 10° 47' 24" W

790.79' S 89° 51' 11" W

R/W  
1231.52'  
61'  
65'  
120'  
2236.02' S 0° 56' 19" E  
1006.50'  
N-S 1/4 LINE 17-31-7  
S 0° 56' 19" E  
C.T.H. "W"

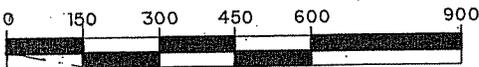
E-W 1/4 LINE

55.00'

## LEGEND

- 1" SOLID ROD SET
- 1" X 24" X 1.13 LBS./FT. IRON PIPE SET
- R.R. SPIKE FOUND

1" = 300'



SCALE IN FEET

LESTER FRUEND

LESTER FRUEND

300000

I hereby certify that I have surveyed and mapped by order of Lester Fruend, a parcel of land being a part of the SE $\frac{1}{4}$  and NE $\frac{1}{4}$  of the NW $\frac{1}{4}$  of Section 17, T31N, R7E, Town of Pine River, Lincoln County, Wisconsin, described as follows:

Commencing at the North  $\frac{1}{4}$  corner of said Section 17; thence S 0°56'19" E, along the N-S  $\frac{1}{4}$  line of said Section 17, 411.14 feet; thence N 88°58'40" W, 55.00 feet, to the West right-of-way of C.T.H. "W"; being the point of beginning;

Thence S 0°56'19" E, along said West right-of-way, 2238.02 feet, to the E-W  $\frac{1}{4}$  line of said Section 17; thence S 89°51'11" W, along said line, 790.79 feet, to the Easterly right-of-way of U.S.H. 51; thence N 10°47'24" W, along said right-of-way, 1024.02 feet; thence continuing along said right-of-way N 8°22'27" E, 1498.83 feet, to the South right-of-way of S.T.H. 64; thence S 88°58'40" E, along said right-of-way, 262.79 feet; thence S 0°05'12" W, 236.63 feet; thence S 88°58'40" E, 465.21 feet, to the point of beginning, subject to easements and roadways of record, and that I have fully complied with the provisions of Section 236.34 Wisconsin Statutes.



Donald D. Frisque  
7/11/89 Donald D. Frisque S-1218  
BECHER-HOPPE, INC.  
Wausau, Wisconsin #6.00 Pd.  
P. 2 of 2

LINCOLN COUNTY, WIS.  
Received for Record the 12<sup>th</sup>  
day of July A. D. 19 89  
11:45 o'clock 4 M. and Recorded in  
C.S. Maps.  
Vol. 2 of RECORDS on page 464  
Warren Weckwerth  
REGISTER OF DEEDS  
Nancy Monti, Dp.

465

**FIGURE 1 - SITE LOCATION MAP**



**Legend**

- Railroads
- Major Highways
- Interstate
- US Highway
- State Highway
- Local Roads
- Civil Towns
- Civil Town
- 24K Open Water
- 24K Rivers and Shorelines
- Municipalities

0 550 1100 1650 ft.

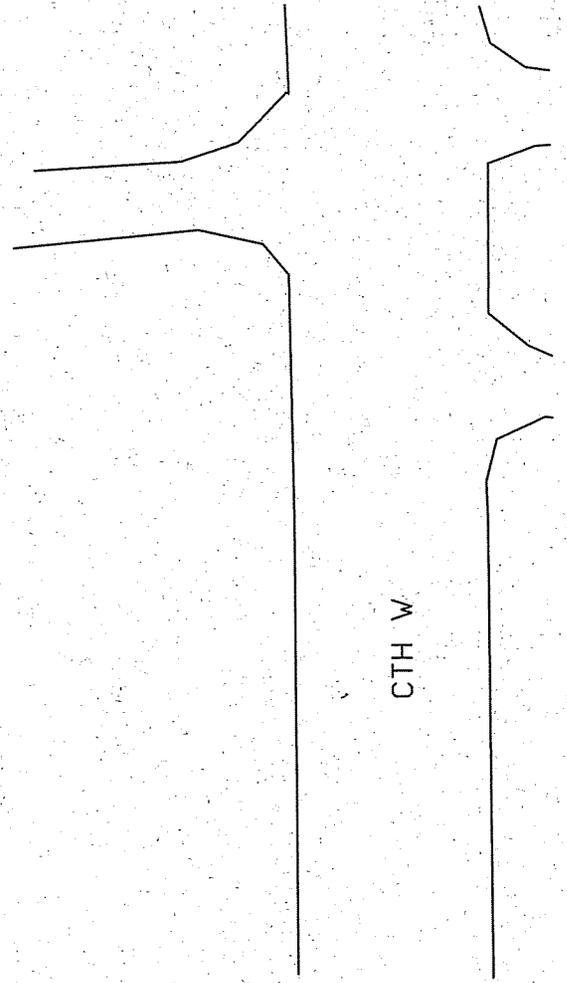
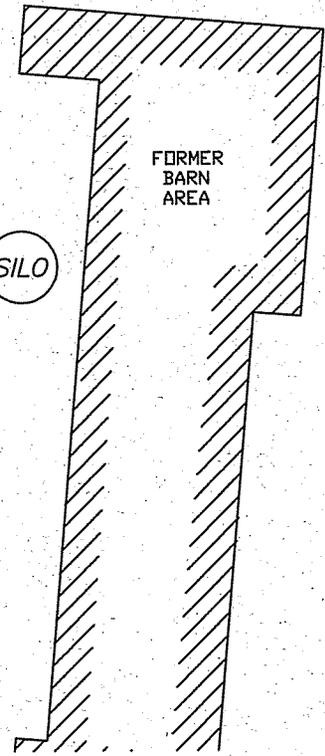
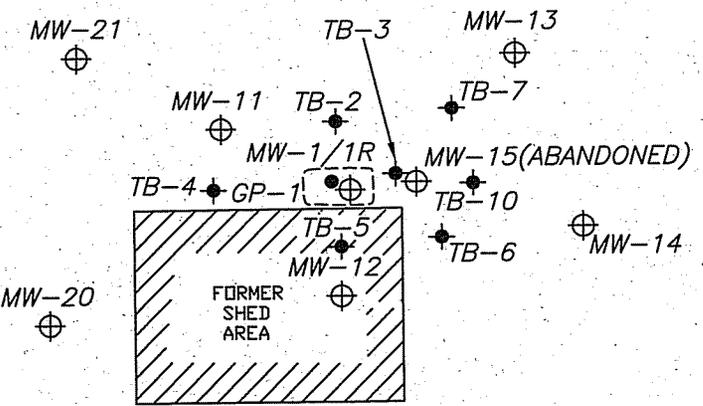
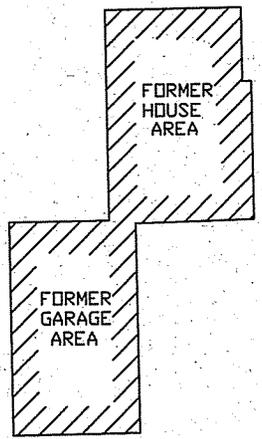
Map created on Dec 31, 2008

Note: Not all RR Sites have been geo-located yet.



Scale: 1:5,922

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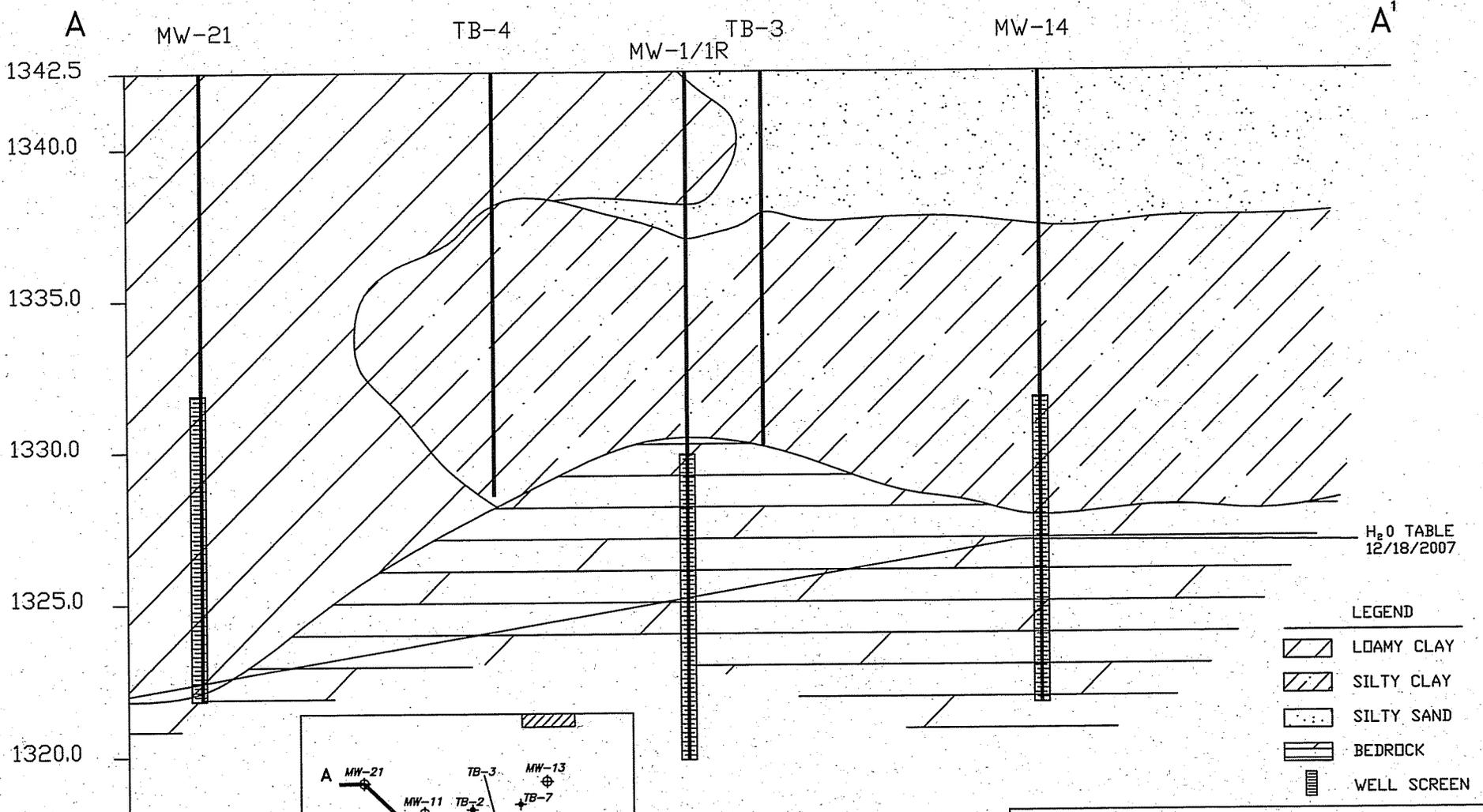
LEGEND

- MONITORING WELL
- FORMER BUILDING AREA
- TEST BORING
- GEOPROBE BORING
- FORMER UST CAVITY

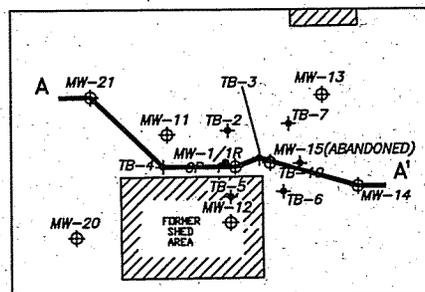
FIGURE 2  
 SITE CONFIGURATION  
 FREUND PROPERTY  
 MERRILL, WISCONSIN

SCALE	SHEET NO.	DWG NO.	DATE	SIZE	DRWN BY	FILE	REVISED	APP'D
1' = 40'	1 OF 1	P04436.41.2.2	12/30/08	A	SVD	223		

SCALE  
HORIZONTAL 1"=20'  
VERTICAL 1"=5'



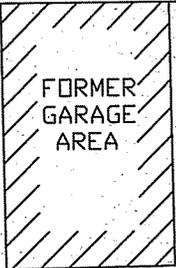
- LEGEND
-  LOAMY CLAY
  -  SILTY CLAY
  -  SILTY SAND
  -  BEDROCK
  -  WELL SCREEN



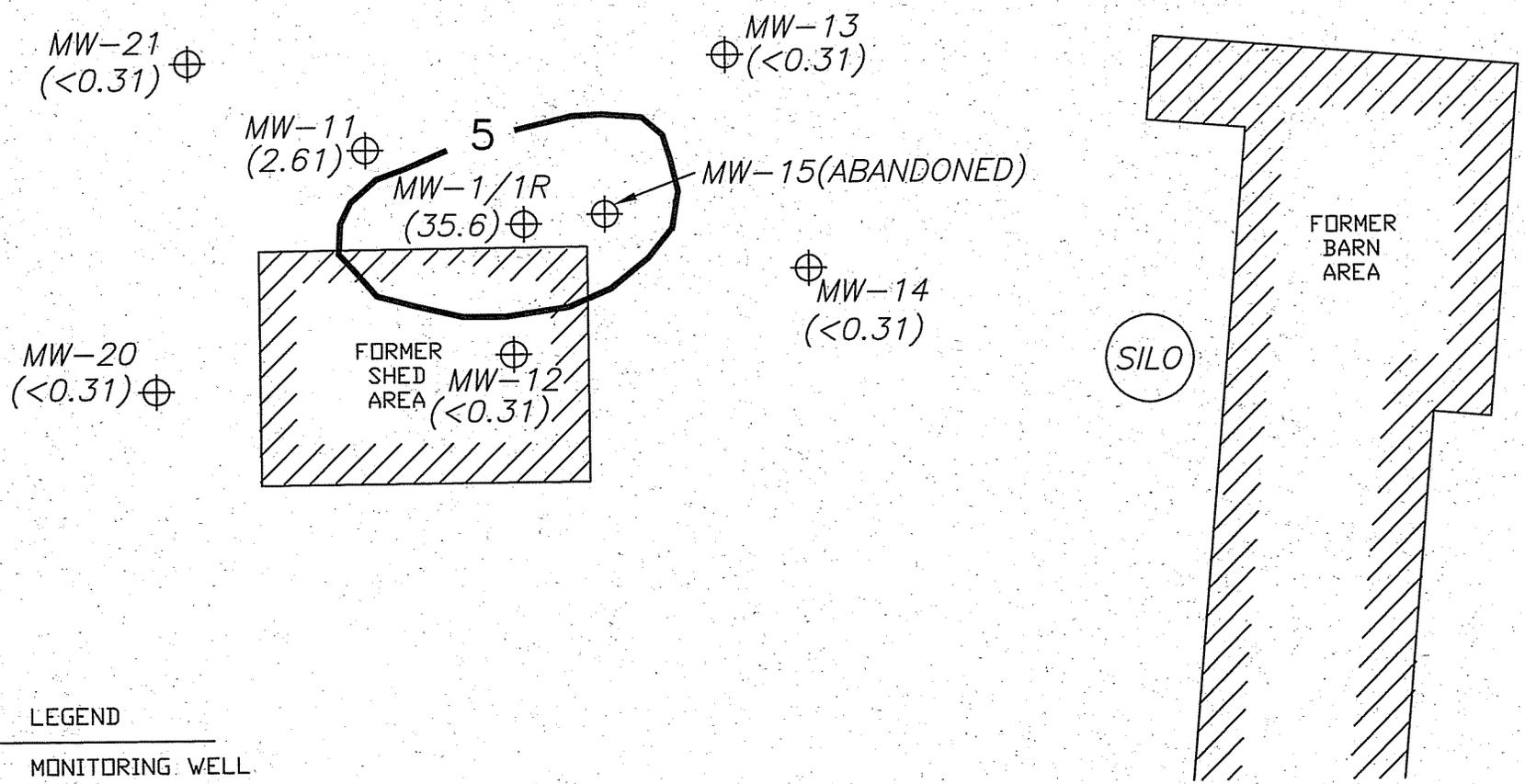
SECTION DETAIL

FIGURE 3  
GEOLOGIC CROSS SECTION A-A'  
FREUND PROPERTY  
MERRILL, WISCONSIN

SCALE	SHEET NO.	DWG NO.	DATE	SIZE	DRWN BY	FILE	REVISED	APP'D
SEE NOTE	1 OF 1	P04436.41.3.2	12/30/08	A	SVD	223		



**Endeavor**  
ENVIRONMENTAL SERVICES, INC.  
2280-B SALSCHIEDER COURT, GREEN BAY, WI 54313



LEGEND

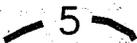


MONITORING WELL



FORMER BUILDING AREA

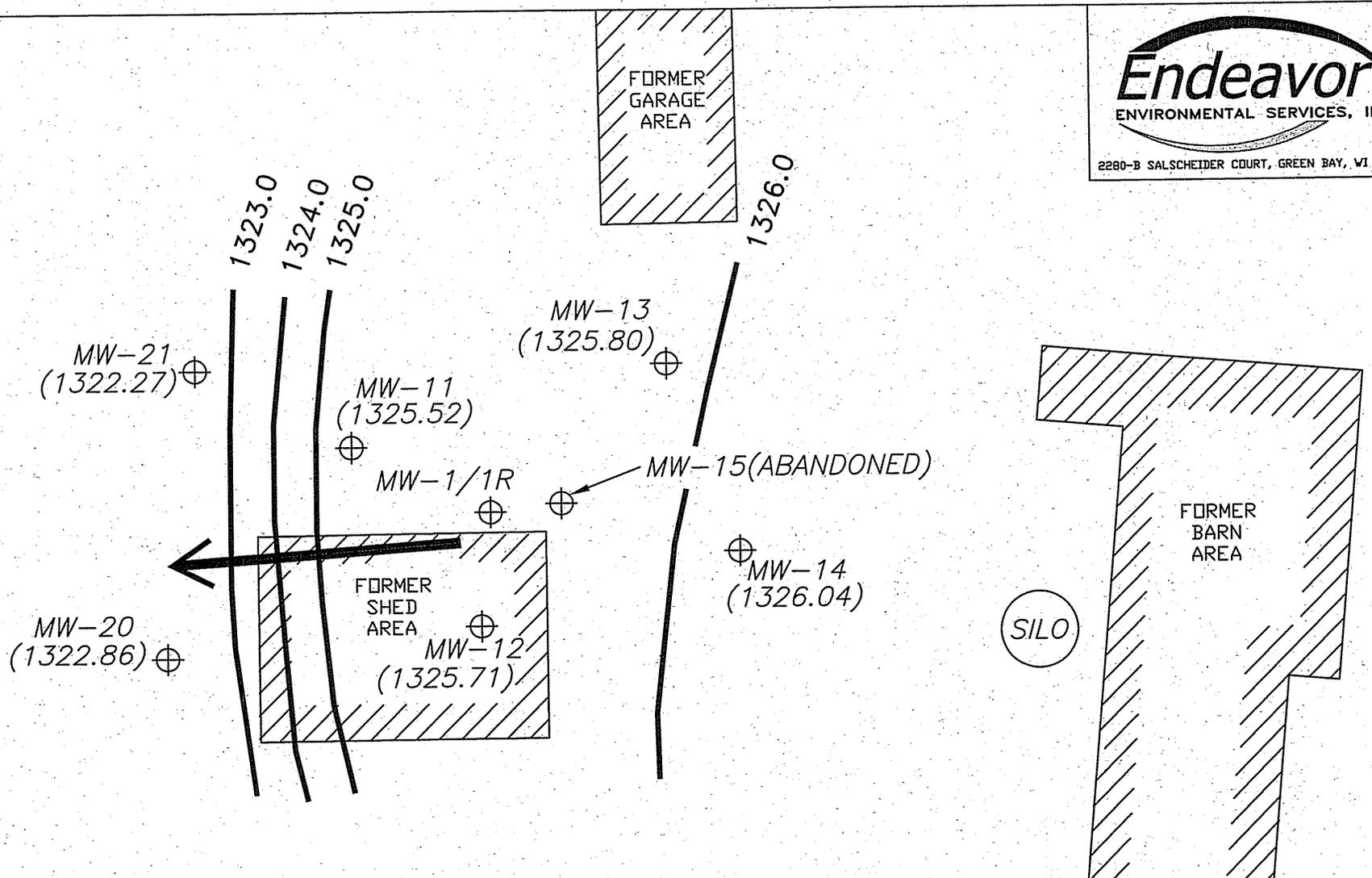
(35.6) BENZENE CONCENTRATION REPORTED IN ppb



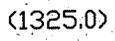
EXTENT OF GROUNDWATER BENZENE CONTAMINATION EXCEEDING NR140 ENFORCEMENT STANDARD

FIGURE 7  
GROUNDWATER BENZENE  
CONTAMINANT DISTRIBUTION (12-18-2007)  
FREUND PROPERTY  
MERRILL, WISCONSIN

SCALE	SHEET NO.	DWG NO.	DATE	SIZE	DRWN BY	FILE	REVISED	APP'D
1" = 30'	1 OF 1	P04436.41.7.1	12/29/08	A	SVD	223	JR	



LEGEND

-  MONITORING WELL
-  FORMER BUILDING AREA
-  ELEVATION CONTOUR
-  FLOW DIRECTION
-  ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

NOTE: MW-1/1R PLACED IN EXCAVATION  
 BACK FILL - ELEVATION NOT USED

FIGURE 8  
 POTENTIOMETRIC SURFACE  
 (12-18-2007)  
 FREUND PROPERTY  
 MERRILL, WISCONSIN

SCALE	SHEET NO.	DWG NO.	DATE	SIZE	DRWN BY	FILE	REVISED	APP'D
1" = 30'	1 DF 1	P04436.41.8.2	12/31/08	A	SVD	223	JR	

Table 1  
Soil Sample Laboratory Analytical Results  
Freund, Lester Farm Residence  
Merrill, Wisconsin

Sample ID	Sample Date	Sample Interval (ft bgs)	PID (ppm eq)	GRO	DRO	Benzene	Ethyl-benzene	Toluene	Total Xylenes	Naphthalene	1,2,4-TMB	1,3,5-TMB	MTBE	Isopropyl benzene	n-Propyl benzene	n-Butyl benzene	sec-Butyl benzene	tert-Butyl benzene	Lead	
GP-1, S-4	9/10/2004	6.0-8.0	443	<b>4,700</b>	<b>3,100</b>	<b>3,400</b>	<b>120,000</b>	<b>210,000</b>	<b>750,000</b>	69,000	350,000	110,000	<1000	12,000	52,000	<1000	5,500	<1000	12	
GP-1, S-6	9/10/2004	10.0-12.0	562	330	89	<250	7,400	9,300	100,000	12,000	99,000	38,000	<250	2,300	10,000	<250	2,100	<250	14	
MW-1, S-1	12/8/2004	2.0 - 4.0	334	16.0	587	<40	259	236	1,539	439	1,570	468	<40	50.1	274	311	<40	<40	10.6	
MW-1, S-3	12/8/2004	6.0 - 8.0	365	<b>2,400</b>	<b>1,140</b>	<10,400	<b>47,000</b>	<b>51,000</b>	<b>243,600</b>	49,800	261,000	87,000	<10,400	<10,400	26,800	62,900	<10,400	<10,400	13.1	
MW-1, S-6	12/8/2004	12.0 - 13.0	579	75.9	311	<100	641	676	3,694	1,190	3,660	1,280	<100	173	<100	1,000	<100	<100	8.0	
TB-2, S-4	12/8/2004	8.0 - 10.0	3.5	<5.46	<5.46	<25	<25	<25	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	3.71	
TB-2, S-7	12/8/2004	14.0 - 14.5	5.9	<5.26	<5.26	<25	<25	<25	<50	27.1	<25	<25	<25	<25	<25	<25	<25	<25	3.70	
TB-3, S-1	12/8/2004	2.0 - 4.0	533	<b>3,560</b>	<b>1,230</b>	<b>31,200</b>	<b>108,000</b>	<b>299,000</b>	<b>558,000</b>	54,300	255,000	67,300	<10,000	<10,000	42,100	42,100	<10,000	<10,000	4.61	
TB-3, S-5	12/8/2004	10.0 - 12.0	560	20.9	<5.42	<100	589	748	3,138	854	2,630	677	<100	<100	325	446	<100	<100	4.29	
TB-3, S-6	12/8/2004	12.0 - 14.0	57	<5.30	<5.30	<25	<25	<25	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	3.10	
TB-4, S-5	12/9/2004	10.0 - 12.0	6.2	<5.61	<5.61	<25	<25	<25	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	3.59	
TB-4, S-7	12/9/2004	14.0 - 15.5	5.4	<5.35	<5.35	<25	<25	<25	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	3.67	
TB-5, S-1	12/9/2004	2.0 - 4.0	5.4	<5.60	<5.60	<25	<25	<25	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	3.15	
TB-5, S-3	12/9/2004	6.0 - 8.0	8.6	<5.95	<5.95	<25	<25	<25	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	10.4	
TB-5, S-6	12/9/2004	12.0 - 13.0	15.7	<5.54	<5.54	<25	<25	<25	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	10.1	
TB-6, S-3	12/9/2004	6.0 - 8.0	31	<7.07	<7.07	<25	<25	<25	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	5.25	
TB-6, S-6	12/9/2004	12.0 - 14.0	32	<5.38	<5.38	<25	<25	<25	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	3.54	
TB-7, S-4	12/9/2004	8.0 - 10.0	26	<5.51	<5.51	<25	<25	<25	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	5.59	
TB-7, S-6	12/9/2004	12.0 - 14.0	32	<5.37	<5.37	<25	<25	<25	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	5.06	
TB-10, S-1	1/12/2005	0.0 - 2.0	1.1	<5.43	NA	<25	<25	<25	<50	NA	<25	<25	<25	NA	NA	NA	NA	NA	NA	
TB-10, S-5	1/12/2005	8.0 - 10.0	1.9	<5.51	NA	<25	<25	<25	<50	NA	<25	<25	<25	NA	NA	NA	NA	NA	NA	
S-13	9/25/2006	10.0	1.3	<6.20	<5.00	<20	<22	<21	<46	NA	<16	<22	<14	NA	NA	NA	NA	NA	NA	
S-14	9/25/2006	10.0	0.6	<6.32	<5.06	<20	<23	<21	<47	NA	<16	<23	<14	NA	NA	NA	NA	NA	NA	
S-15	9/25/2006	10.0	2.9	<6.16	<4.69	<20	<22	<21	<46	NA	<16	<22	<14	NA	NA	NA	NA	NA	NA	
NR 720.09 Residual Contaminant Levels				100	100	5.5	2,900	1,500	4,100	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	50
NR 746.06 Table 1 (free product indicator)				NS	NS	8,500	4,600	38,000	42,000	2,700	83,000	11,000	NS	NS	NS	NS	NS	NS	NS	NS
NR 746.06 Table 2 (direct contact standard)				NS	NS	1,100	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

All concentrations reported in parts per billion, except GRO, DRO and Lead reported in parts per million

**Bold value** represents an exceedence of NR720 residual contaminant levels

bgs: below ground surface

ppm eq: part per million equivalent

GRO: gasoline range organics

TMB: trimethylbenzene

MTBE: methyl tert-butyl ether

NA: not analyzed/not applicable

NS: no standard

Table 2  
 Historical Groundwater Sample Laboratory Analytical Results  
 Freund, Lester Farm Residence  
 Merrill, Wisconsin

Sample Date	Benzene	Ethyl-benzene	Toluene	Total Xylenes	Total TMBs	MTBE	Naphthalene	n-butyl-benzene	sec-butyl-benzene	Isopropyl-benzene	n-Propyl-benzene	Dissolved Lead	GW Depth (ft)	GW Elevation (msl)
<b>MW-1</b> Top of Well Screen (msl): NA      Length of Well Screen: 15 feet														
12/21/2004	133	190	360	1,368	881	8.92	173	248	<4.00	18.4	66.8	3.9	15.30	1326.22
1/20/2005	160	79	260	1,110	770	14	170	NA	NA	NA	NA	NA	15.71	1325.81
2/16/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16.20	1325.32
9/7/2005	310	120	360	690	440	24	99	NA	NA	NA	NA	NA	15.85	1325.67
12/28/2005	290	67	200	520	322	13	74	NA	NA	NA	NA	NA	15.64	1325.88
3/23/2006	65	37	100	290	163	3	28	NA	NA	NA	NA	NA	15.41	1326.11
<b>MW-1R</b> Top of Well Screen (msl): 1328.52      Length of Well Screen: 15 feet														
2/21/2007	140	150	420	1,290	670	7.4	130	NA	NA	NA	NA	NA	15.52	1326.00
5/31/2007	21.7	33.0	57.6	426	330	<3.0	89.8	NA	NA	NA	NA	NA	15.02	1326.50
8/24/2007	54.7	75.6	130	733	520	<6.0	83.9	NA	NA	NA	NA	NA	15.45	1326.07
12/18/2007	35.6	49.5	89.8	371	285	1.8	62.4	NA	NA	NA	NA	NA	15.59	1325.93
<b>MW-11</b> Top of Well Screen (msl): 1330.81      Length of Well Screen: 10 feet														
1/20/2005	29	4.9	1.9	19.6	21.2	6.0	20	2.4	1.1	4.2	5.1	<1.5	16.17	1325.64
2/16/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17.60	1324.21
9/7/2005	16	<0.40	<0.36	<1.10	<0.79	4.2	<0.47	NA	NA	NA	NA	NA	16.43	1325.38
12/28/2005	100	13	1.9	23.9	34	9.8	66	NA	NA	NA	NA	NA	16.23	1325.58
3/23/2006	85	36	29	160	131	7.7	32	NA	NA	NA	NA	NA	16.37	1325.44
2/21/2007	4.1	<0.40	<0.36	<1.10	<0.79	1.8	<0.47	NA	NA	NA	NA	NA	16.02	1325.79
5/31/2007	4.7	<0.50	<0.30	3.37	<0.71	1.5	1.54 <sup>a</sup>	NA	NA	NA	NA	NA	15.52	1326.29
8/24/2007	1.28	<0.50	<0.30	<0.92	<0.71	<0.30	<0.80	NA	NA	NA	NA	NA	16.03	1325.78
12/18/2007	2.61	<0.50	<0.30	<0.92	<0.71	1.5	<0.80	NA	NA	<0.80	NA	NA	16.29	1325.52
<b>MW-12</b> Top of Well Screen (msl): 1330.11      Length of Well Screen: 10 feet														
1/20/2005	2.4	2.9	14	24.4	22.5	<0.61	3.8	1.5	<0.89	0.83	2.1	<1.5	16.26	1325.85
2/16/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16.60	1325.51
9/7/2005	6.5	19	47	73	28.4	<0.36	9.0	NA	NA	NA	NA	NA	16.44	1325.67
12/28/2005	3.2	1.4	1.3	13.5	17.7	<0.36	3.3	NA	NA	NA	NA	NA	16.22	1325.89
3/23/2006	<0.25	<0.22	<0.11	<0.39	0.32	<0.23	<0.50	NA	NA	NA	NA	NA	15.98	1326.13
2/21/2007	0.89	1.4	2.8	10.5	12.1	<0.36	3.5	NA	NA	NA	NA	NA	16.22	1325.89
5/31/2007	<0.31	<0.50	<0.30	<0.92	<0.71	<0.30	<0.80	NA	NA	NA	NA	NA	15.75	1326.36
8/24/2007	<0.31	<0.50	<0.30	1.6	1.88 <sup>a</sup>	<0.30	1.51 <sup>a</sup>	NA	NA	NA	NA	NA	16.10	1326.01
12/18/2007	<0.31	0.528 <sup>a</sup>	<0.30	1.79	<0.71	<0.30	<0.80	NA	NA	NA	NA	NA	16.32	1325.79
<b>MW-13</b> Top of Well Screen (msl): 1328.87      Length of Well Screen: 10 feet														
1/20/2005	<0.41	<0.54	<0.67	<2.63	<1.8	<0.61	<0.74	<0.93	<0.89	<0.59	<0.81	<1.5	14.91	1325.96
2/16/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.35	1325.52
9/7/2005	<0.14	<0.40	<0.36	<1.10	<0.79	<0.36	<0.47	NA	NA	NA	NA	NA	15.18	1325.69
12/28/2005	<0.14	<0.40	<0.36	<1.10	<0.79	<0.36	1.4	NA	NA	NA	NA	NA	14.89	1325.98
3/23/2006	<0.25	<0.22	0.13	<0.39	<0.44	<0.23	<0.50	NA	NA	NA	NA	NA	13.91	1326.96
2/21/2007	<0.14	<0.40	<0.36	<1.10	<0.79	<0.36	<0.47	NA	NA	NA	NA	NA	14.99	1325.88
5/31/2007	<0.31	<0.50	<0.30	<0.92	<0.71	<0.30	<0.80	NA	NA	NA	NA	NA	14.34	1326.53
8/24/2007	<0.31	<0.50	<0.30	<0.92	<0.71	<0.30	<0.80	NA	NA	NA	NA	NA	15.01	1325.86
12/18/2007	<0.31	<0.50	<0.30	<0.92	<0.71	<0.30	<0.80	NA	NA	NA	NA	NA	15.07	1325.80
NR 140 ES	5	700	1,000	10,000	480	60	40	NS	NS	NS	NS	15	NA	NA
NR 140 PAL	0.5	140	200	1,000	96	12	8	NS	NS	NS	NS	1.5	NA	NA

Note: <sup>a</sup> Estimated concentration is below laboratory quantitation level  
 All concentrations reported in parts per billion  
 Trip blank for 05/31/2007 sampling had detectable analytes of total xylenes (1.25 ppb<sup>a</sup>) and toluene (1.19 ppb)  
 Trip blank for 8/24/2007 sampling had detectable toluene (0.696 ppb<sup>a</sup>)  
 Bold values represents exceedance of NR 140 enforcement standard  
 Italic values represent exceedance of NR 140 preventive action limits

MTBE: methyl tert-butyl ether  
 1,2-DCA: 1,2-Dichloroethane  
 TMBs: trimethylbenzenes  
 NA: not analyzed/not applicable  
 NS: no standard  
 ES: Enforcement Standard  
 PAL: Preventive Action Limit

Table 2 (cont.)  
 Historical Groundwater Sample Laboratory Analytical Results  
 Fruend, Lester Farm Residence  
 Merrill, Wisconsin

Sample Date	Benzene	Ethylbenzene	Toluene	Total Xylenes	Total TMBs	MTBE	Naphthalene	n-butylbenzene	sec-butylbenzene	Isopropylbenzene	n-Propylbenzene	Dissolved Lead	GW Depth (ft)	GW Elevation (msl)
<b>MW-14</b>														
Top of Well Screen (msl): 1329.13 Length of Well Screen: 10 feet														
1/20/2005	<0.41	<0.54	<0.67	<2.63	<1.8	<0.61	<0.74	<0.93	<0.89	<0.59	<0.81	<1.5	14.81	1326.32
2/16/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.40	1325.73
9/7/2005	<0.14	<0.40	<0.36	<1.10	<0.79	<0.36	<0.47	NA	NA	NA	NA	NA	15.27	1325.86
12/28/2005	<0.14	<0.40	<0.36	<1.10	<0.79	<0.36	<0.47	NA	NA	NA	NA	NA	14.82	1326.31
2/21/2007	<0.14	<0.40	<0.36	<1.10	<0.79	<0.36	<0.47	NA	NA	NA	NA	NA	14.96	1326.17
5/31/2007	<0.31	<0.50	<0.30	<0.92	<0.71	<0.30	<0.80	NA	NA	NA	NA	NA	14.15	1326.98
8/24/2007	<0.31	<0.50	<0.30	<0.92	<0.71	<0.30	<0.80	NA	NA	NA	NA	NA	14.96	1326.17
12/18/2007	<0.31	<0.50	<0.30	<0.92	<0.71	<0.30	<0.80	NA	NA	NA	NA	NA	15.09	1326.04
<b>MW-15</b>														
Top of Well Screen (msl): 1329.48 Length of Well Screen: 10 feet														
1/20/2005	<i>0.68</i>	0.90	2.4	18.6	9.4	<0.61	1.5	<0.93	<0.89	<0.59	<0.81	<1.1	15.64	1325.84
2/16/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.95	1325.53
9/7/2005	<0.14	<0.40	<0.36	<1.10	<0.79	<0.36	<0.47	NA	NA	NA	NA	NA	15.81	1325.67
12/28/2005	<0.14	<0.40	<0.36	<1.10	<0.79	<0.36	<0.47	NA	NA	NA	NA	NA	15.59	1325.89
3/23/2006	<0.25	<0.22	<0.11	<0.39	<0.44	<0.23	<0.50	NA	NA	NA	NA	NA	15.34	1326.14
2/21/2007	Well was abandoned during excavation													
<b>MW-20</b>														
Top of Well Screen (msl): 1329.96 Length of Well Screen: 10 feet														
2/16/2005	<0.41	<0.54	<0.67	<1.63	<1.8	8.0	<0.74	<0.93	<0.89	<0.59	<0.81	NA	19.10	1322.86
9/7/2005	0.42	<0.40	<0.36	<1.10	<0.79	8.6	<0.47	NA	NA	NA	NA	NA	19.07	1322.89
12/28/2005	<i>0.5</i>	<0.40	<0.36	<1.10	<0.79	8.3	<0.47	NA	NA	NA	NA	NA	19.09	1322.87
3/23/2006	<i>0.56</i>	<0.22	<0.11	<0.39	<0.44	6.6	<0.50	NA	NA	NA	NA	NA	19.13	1322.83
2/21/2007	<0.14	<0.40	<0.36	<1.10	<0.79	4.2	<0.47	NA	NA	NA	NA	NA	19.05	1322.91
5/31/2007	<0.31	<0.50	<0.30	<0.92	<0.71	4.3	<0.80	NA	NA	NA	NA	NA	19.00	1322.96
8/24/2007	<0.31	<0.50	<0.30	<0.92	<0.71	4.2	<0.80	NA	NA	NA	NA	NA	19.04	1322.92
12/18/2007	<0.31	<0.50	<0.30	<0.92	<0.71	3.2	<0.80	NA	NA	NA	NA	NA	19.10	1322.86
<b>MW-21</b>														
Top of Well Screen (msl): 1330.58 Length of Well Screen: 5 feet														
2/16/2005	<0.41	<0.54	<0.67	<1.63	<1.8	19	<0.74	<0.93	<0.89	<0.59	<0.81	NA	20.40	1322.18
9/7/2005	<0.14	<0.40	<0.36	<1.10	<0.79	14	<0.47	NA	NA	NA	NA	NA	20.29	1322.29
12/28/2005	<0.14	<0.40	<0.36	<1.10	<0.79	8.4	<0.47	NA	NA	NA	NA	NA	20.43	1322.15
3/23/2006	<0.25	<0.22	<0.11	<0.39	<0.44	7.0	<0.50	NA	NA	NA	NA	NA	20.45	1322.13
2/21/2007	<0.14	<0.40	<0.36	<1.10	<0.79	5.3	<0.47	NA	NA	NA	NA	NA	20.19	1322.39
5/31/2007	<0.31	<0.50	<0.30	<0.92	<0.71	3.5	<0.80	NA	NA	NA	NA	NA	19.95	1322.63
8/24/2007	<0.31	<0.50	<0.30	<0.92	<0.71	3.0	<0.80	NA	NA	NA	NA	NA	20.15	1322.43
12/18/2007	<0.31	<0.50	<0.30	<0.92	<0.71	2.4	<0.80	NA	NA	NA	NA	NA	20.31	1322.27
NR 140 ES	5	700	1,000	10,000	480	60	40	NS	NS	NS	NS	15	NA	NA
NR 140 PAL	0.5	140	200	1,000	96	12	8	NS	NS	NS	NS	1.5	NA	NA

Note:

<sup>a</sup> Estimated concentration is below laboratory quantitation level

All concentrations reported in parts per billion

Trip blank for 05/31/2007 sampling had detectable analytes of total xylenes (1.25 ppb<sup>a</sup>) and toluene (1.19 ppb)

Trip blank for 8/24/2007 sampling had detectable toluene (0.696 ppb<sup>a</sup>)

**Bold values** represents exceedance of NR 140 enforcement standard

*italic values* represent exceedance of NR 140 preventive action limits

MTBE: methyl tert-butyl ether  
 1,2-DCA: 1,2-Dichloroethane  
 TMBs: trimethylbenzenes  
 NA: not analyzed/not applicable

NS: no standard  
 ES: Enforcement Standard  
 PAL: Preventive Action Limit