

# GIS REGISTRY

## Cover Sheet

July, 2008  
(RR 5367)

### Source Property Information

BRRTS #: 03-35-307480

ACTIVITY NAME: BIERMAN RESIDENCE

PROPERTY ADDRESS: W5120 SOUTH SHORE DR

MUNICIPALITY: MERRILL

PARCEL ID #: 014-3206-364-9905

CLOSURE DATE: Nov 2, 2009

FID #:

DATCP #:

COMM #: 54452878020

#### \*WTM COORDINATES:

X: 544821 Y: 526166

*\* 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")*

Soil Contamination > \*RCL or \*\*SSRCL (232)

Contamination in ROW

Off-Source Contamination

*(note: for list of off-source properties  
see "Impacted Off-Source Property")*

#### Land Use Controls:

Soil: maintain industrial zoning (220)

*(note: soil contamination concentrations  
between residential 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 or economic  
development corporation)*

Monitoring wells properly abandoned? (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 #: 03-35-307480 PARCEL ID #: 014-3206-364-9905

ACTIVITY NAME: BIERMAN RESIDENCE WTM COORDINATES: X: 544821 Y: 526166

**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.)
- 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:**
- 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 8.5 x 14 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: 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 Plan**
- 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 #: 3**                      **Title: Estimated Extent of Soil with DRO Concentrations above NR 720 RCL**

BRRTS #: 03-35-307480

ACTIVITY NAME: BIERMAN RESIDENCE

**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 #: NA Title:**

**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 #: NA Title:**

- 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 #: 4 Title: Groundwater Contour Map (June 2003)**

**Figure #: 5 Title: Groundwater Contour Map (April 2009)**

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

Tables must be no larger than 8.5 x 14 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 Analytical Results for Detected Compounds**

- 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 Analytical Results for Detected Compounds**

- 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 #: 3 Title: Well and Water Elevations and Depths of Water Measurements**

**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 #: 03-35-307480

ACTIVITY NAME: BIERMAN RESIDENCE

## NOTIFICATIONS

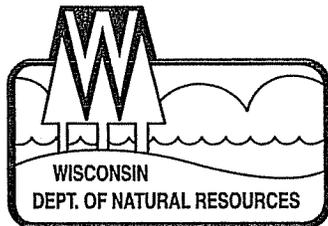
### Source Property

- 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.

- 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: NA**
- 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: NA**



## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor  
Matthew J. Frank, Secretary  
John Gozdzialski, Regional Director

Northern Region Headquarters  
107 Sutliff Ave.  
Rhineland, Wisconsin 54501-3349  
Telephone 715-365-8900  
FAX 715-365-8932  
TTY Access via relay - 711

November 2, 2009

Ms. Jane Bierman  
W5120 South Shore Drive  
Merrill, WI 54452

**SUBJECT:** Final Case Closure with Continuing Obligations  
Bierman Residence, W5120 South Shore Drive. Merrill, WI  
WDNR BRRTS Activity #: 03-35-307480

Dear Ms. Bierman:

On September 3, 2009, the Wisconsin Department of Natural Resources (Department) Northern Region Closure Committee (Closure Committee) reviewed the above referenced case for closure. This committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. On September 9, 2009, you were notified that the Closure Committee had granted conditional closure to this case.

On October 26, 2009, the Department received the monitoring well abandonment forms indicating that you have complied with the requirements for final closure.

Based on the correspondence and data provided, it appears that your case meets the closure requirements in ch. NR 726, Wisconsin Administrative Code. The Department considers this case closed and no further investigation or remediation is required at this time, however, you and future property owners must comply with certain continuing obligations as explained in this letter.

### GIS Registry

This site will be listed on the Remediation and Redevelopment Program's GIS Registry. The specific reasons are summarized below:

- Residual soil contamination exists that must be properly managed should it be excavated or removed
- If a structural impediment that obstructed a complete site investigation or cleanup is removed or modified, additional environmental work must be completed

This letter and information that was submitted with your closure request application will be included on the GIS Registry. To review the sites on the GIS Registry web page, visit the RR Sites Map page at <http://dnr.wi.gov/org/aw/rr/gis/index.htm>. If the property is listed on the GIS Registry because of remaining contamination and 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 <http://dnr.wi.gov/org/water/dwg/3300254.pdf> or at the web address listed above for the GIS Registry.

### Closure Conditions

Please be aware that pursuant to s. 292.12 Wisconsin Statutes, compliance with the requirements of this letter is a responsibility to which you and any subsequent property owners must adhere. You must pass on the information about these continuing obligations to the next property owner or owners. If these requirements are not followed or if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, welfare, or the environment, the Department may take enforcement action under s. 292.11 Wisconsin Statutes to ensure compliance with the specified requirements, limitations or other conditions related to the property or this case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code. The Department intends to conduct inspections in the future to ensure that the conditions included in this letter are met.

### Residual Soil Contamination

Residual soil contamination remains at the location of the former underground storage tank as indicated on Figure 3, Estimated Extent of DRO Concentrations Above NR 720 RCL in Soil, which was contained in the information submitted to the Department. If soil in the specific locations described above is excavated in the future, then pursuant to ch. NR 718 or, if applicable, ch. 289, Stats., and chs. 500 to 536, the property owner at the time of excavation must sample and analyze the excavated soil to determine if residual contamination remains. If sampling confirms that contamination is present the property owner at the time of excavation will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. In addition, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken to prevent a direct contact health threat to humans.

### Structural Impediments

Structural impediments existing at the time of cleanup, the house on the property as delineated in Figure 3, Estimated Extent of DRO Concentrations Above NR 720 RCL in Soil, made complete cleanup of the soil contamination on this property impracticable. Pursuant to s. 292.12(2)(b), Wis. Stats., if the structural impediments on this property that are described above are to be removed, the property owner shall notify the Department of Natural Resources before removal and conduct an investigation of the degree and extent of petroleum contamination. If contamination is found at that time, the contamination shall be properly remediated in accordance with applicable statutes and rules. If soil in the specific locations described above is excavated, the property owner at the time of excavation must sample and analyze the excavated soil to determine if residual contamination remains. If sampling confirms that contamination is present the property owner at the time of excavation will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal

is in compliance with applicable statutes and rules. In addition, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken during excavation activities to prevent a health threat to humans.

Post-Closure Notification Requirements

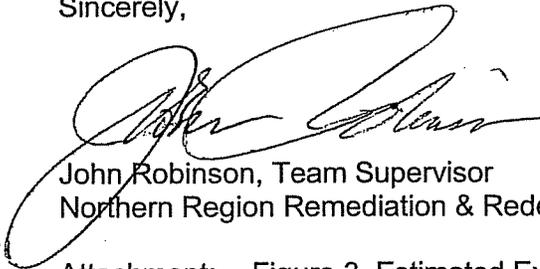
In accordance with ss, 292.12 and 292.13, Wis. Stats., you must notify the Department before making changes that affect or relate to the conditions of closure in this letter. For this case, examples of changed conditions requiring prior notification include, but are not limited to:

- Any activity or construction that results in the removal or modification of a structural impediment that obstructed a complete site investigation or cleanup

Please send written notifications in accordance with the above requirements to the attention of the remediation and Redevelopment Program at the above address.

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.

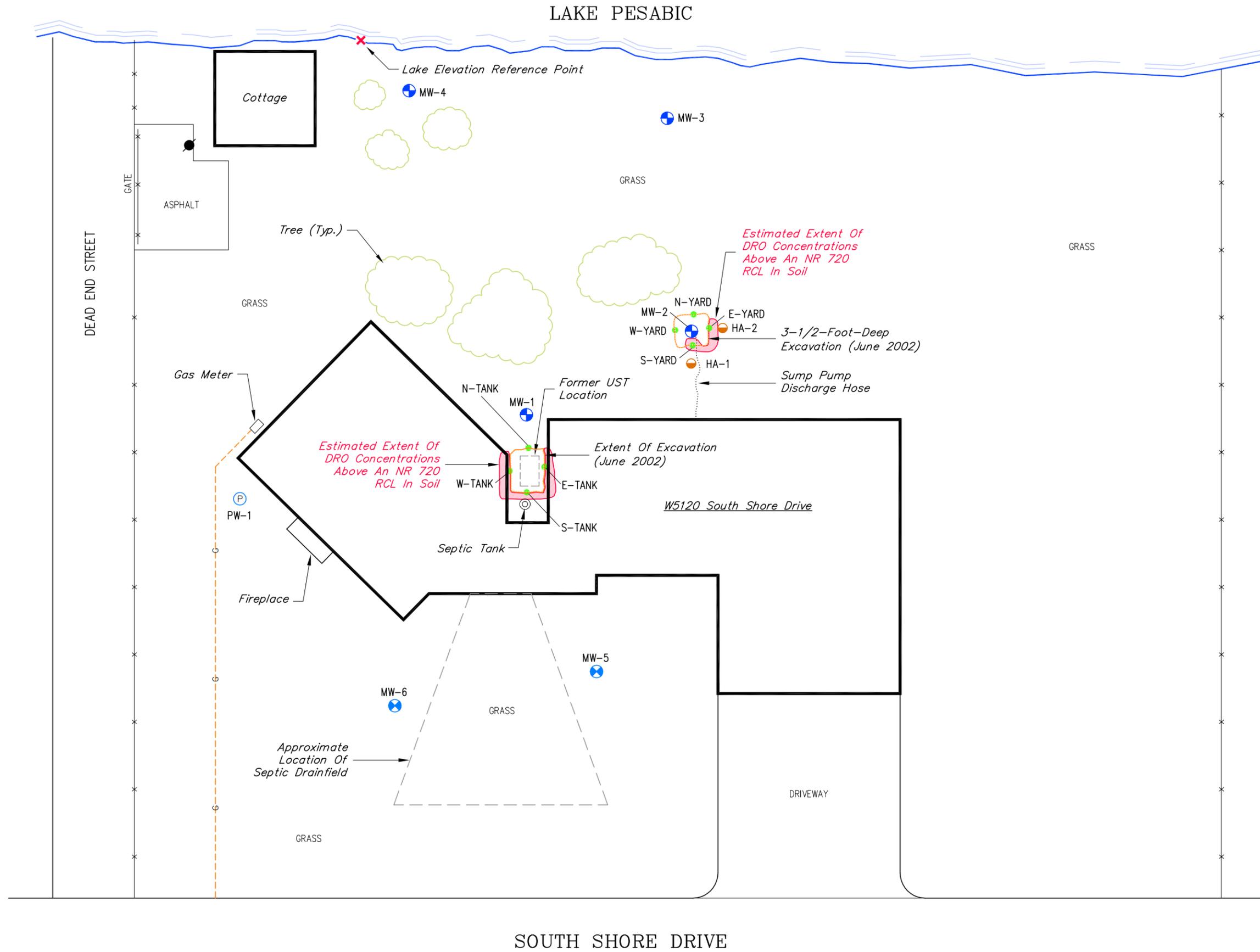
Sincerely,



John Robinson, Team Supervisor  
Northern Region Remediation & Redevelopment Program

Attachment: Figure 3, Estimated Extent of DRO Concentrations Above NR 720 RCL in Soil

C: Mr. Tim Deals, Lincoln Wood Products, Inc.  
Mr. Jeff King, Gannett Fleming, Inc.



**LEGEND**

- Monitoring Well Location (March 2009)
- Sidewall Soil Sample Location (June 2002)
- Hand-Auger Sample Location (September 2002)
- Monitoring Well Location (September 2002)
- Private Well Location
- Flag Pole
- Fence/Property Line

**ESTIMATED  
EXTENT OF DRO  
CONCENTRATIONS  
ABOVE NR 720  
RCL IN SOIL**

BIERMAN HEATING OIL UST  
W5120 SOUTH SHORE DRIVE  
MERRILL, WISCONSIN



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor  
Matthew J. Frank, Secretary  
John Gozdzialski, Regional Director

Northern Region Headquarters  
107 Sutliff Ave.  
Rhinelander, Wisconsin 54501-3349  
Telephone 715-365-8900  
FAX 715-365-8932  
TTY Access via relay - 711

September 9, 2009

Ms. Jane Bierman  
W5120 South Shore Drive  
Merrill, WI 54452

Subject: Conditional Closure Decision,  
With Requirements to Achieve Final Closure  
Bierman Residence, W5120 South Shore Drive, Merrill, Wisconsin  
WDNR BRRTS Activity # 03-35-307480

Dear Ms. Bierman:

On September 3, 2009, the Wisconsin Department of Natural Resources ("Department") reviewed your request for closure of the case described above. The Regional Closure Committee ("Closure Committee") reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. After careful review of the closure request, the Closure Committee has determined that the petroleum contamination on the site from the former underground storage tank appears to have been investigated and remediated to the extent practicable under site conditions. Your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code and will be closed if the following conditions are satisfied:

Monitoring Well Abandonment

The monitoring wells at the site must be properly abandoned in compliance with ch. NR 141, Wis. Adm. Code. Documentation of well abandonment must be submitted to me on Form 3300-005 found at <http://dnr.wi.gov/org/water/dwg/gw/> or provided by the Department of Natural Resources.

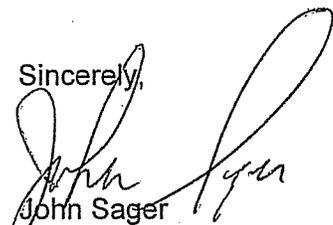
When the above conditions have been satisfied, please submit the appropriate documentation (for example, well abandonment forms, disposal receipts, copies of correspondence, etc.) to verify that applicable conditions have been met, and your case will be closed. Your site will be listed on the DNR Remediation and Redevelopment GIS Registry. Information that was submitted with your closure request application will be included on the GIS Registry. To review the site on the GIS Registry web page, visit the RR Sites Map page at: <http://dnr.wi.gov/org/aw/rr/gis/index.htm>.

Please be aware that the case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment.

Ms. Jane Bierman  
September 10, 2009  
Page 2

We appreciate your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at (715) 365-8959 or [john.sager@wisconsin.gov](mailto:john.sager@wisconsin.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "John Sager", written over a large, stylized loop.

John Sager  
Hydrogeologist  
Remediation & Redevelopment Program

cc: Mr. Jeff King, Gannett Fleming (via email)

456420

State Bar of Wisconsin Form 7 - 2003

TRUSTEE'S DEED

Document Number

Document Name

THIS DEED, made between Jane Bierman as Trustee of Jane Bierman Survivor's Trust Two Dated September 15, 2002 ("Grantor," whether one or more), and Jane Bierman Trust Dated December 28, 2006

Grantor conveys to Grantee, without warranty, the following described real estate, together with the rents, profits, fixtures and other appurtenant interests, in Lincoln County, State of Wisconsin ("Property") (if more space is needed, please attach addendum):

LEGAL DESCRIPTION ON ADDENDUM ATTACHED HERETO

FEE \$77.25 (16) EXEMPT

RECEIVED LINCOLN COUNTY, WIS

2007 JAN 10 AM 10 46

Sarah Hoss REGISTER OF DEEDS

Recording Area

Name and Return Address

John F. Michler, Esq. Ruder Ware, L.L.S.C. P.O. Box 8050 Wausau, WI 54402-80105

\$13.00 pd. ch. # 36465

Attached

Parcel Identification Number (PIN)

This document is exempt from transfer fee pursuant to Wis. Stat. Section 77.25(16).

Dated December 28, 2006

Jane Bierman, Trustee (SEAL) \* Jane Bierman, Trustee (SEAL) \*

(SEAL) (SEAL) \*

AUTHENTICATION

Signature(s) of Jane Bierman

authenticated on December 28, 2006

\* John F. Michler

TITLE: MEMBER STATE BAR OF WISCONSIN

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

THIS INSTRUMENT DRAFTED BY:

John F. Michler, Ruder Ware, L.L.S.C. P.O. Box 8050, Wausau, WI 54402-8050

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

NOTE: THIS IS A STANDARD FORM. ANY MODIFICATIONS TO THIS FORM SHOULD BE CLEARLY IDENTIFIED.

TRUSTEE'S DEED

STATE BAR OF WISCONSIN

FORM No. 7-2003

\*Type name below signatures.

**JANE BIERMAN, TRUSTEE OF SURVIVOR'S TRUST TWO  
DATED SEPTEMBER 15, 2002 GRANTOR  
TO  
JANE BIERMAN TRUST  
DATED DECEMBER 28, 2006, GRANTEE**

**Parcel 1:**

**Lots 11, 12 and 13 of Schwab's Subdivision, in Government Lot 4, Section 36, Township 32 North, Range 6 East, in the Town of Merrill, Lincoln County, Wisconsin.**

**PIN: 014-3206-364-9906**

**014-3206-364-9905**

**014-3206-364-9904**

**ALSO,**

**A parcel of land situated in Government Lot 4, Section 36, Township 32 North, Range 6 East, described as follows:**

**Commencing at a point on the Southeast Quarter corner of the SE 1/4 of the SW 1/4 of Section 36, Township 32 North, Range 6 East; thence North 286.2 feet to a point marked by an iron stake; thence North 65 9' West, 268 feet to a point marked by an iron stake being the place of beginning; thence North 24 51' East, 175 feet to a point marked by an iron stake; thence North 65 9' West 200 feet, to a point marked by an iron stake; thence South 24 51' West to a point marked by an iron stake; thence South 65 9' East 200 feet to the place of beginning.**

**PIN: 014-3206-363-9972**

**Parcel 2:**

**The Southwest quarter (SW 1/4) of the Southeast quarter (SE 1/4) and the Southeast quarter (SE 1/4) of the Southwest quarter (SW 1/4), in Section 28, Township 32 North, Range 7 East.**

**PIN: 014-3207-283-9996**

**014-3207-284-9997**



Jane Bierman  
W5120 South Shore Drive  
Merrill, Wisconsin 54452  
(715)-536-2461

**GIS REGISTRATION STATEMENT**

**For  
Property Located At:**

W5120 South Shore Drive  
Merrill, Wisconsin 54452

**WDNR BRRTS/Activity #: 03-35-307480**

**DNR Activity Name: Bierman Residence**

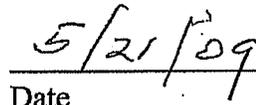
**Parcel ID: 014-3206-364-9905**

To the best of my knowledge, I believe that the attached legal description and deed provided to the Wisconsin Department of Natural Resources for the Geographic Information System (GIS) registration of properties at W5120 South Shore Drive, City of Merrill, Lincoln County, Wisconsin, is complete and accurate for the property associated with the Bierman Residence release site (BRRTS 03-35-307480) in the City of Merrill, Lincoln County, Wisconsin. This legal description represents all properties known to be within, or partially within, the contaminated site boundary.

Signed:



Jane Bierman



Date

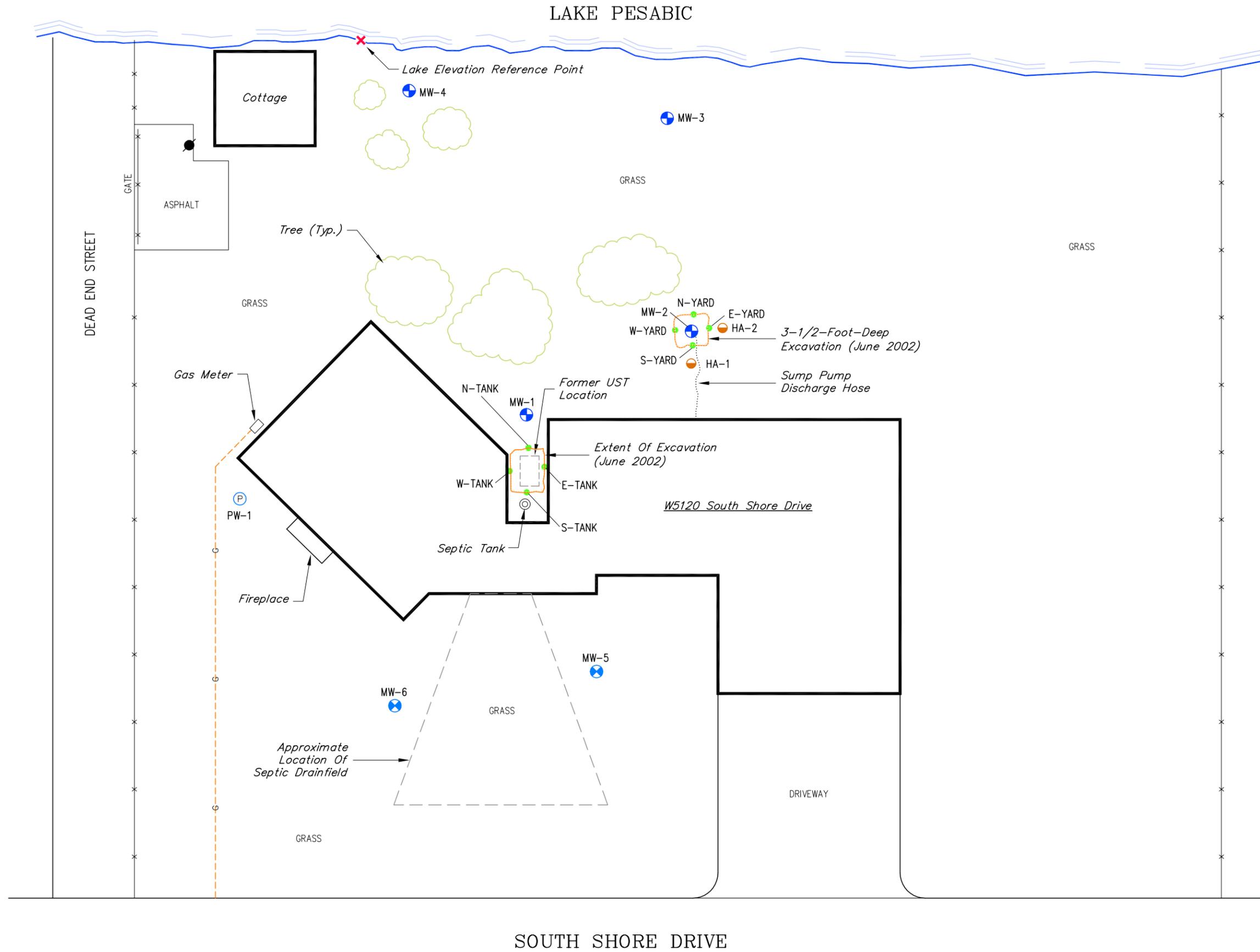


SCALE: 1 INCH = 0.25 MILES

7.5 MIN TOPOGRAPHIC MAP  
MERRILL, WISCONSIN  
1982



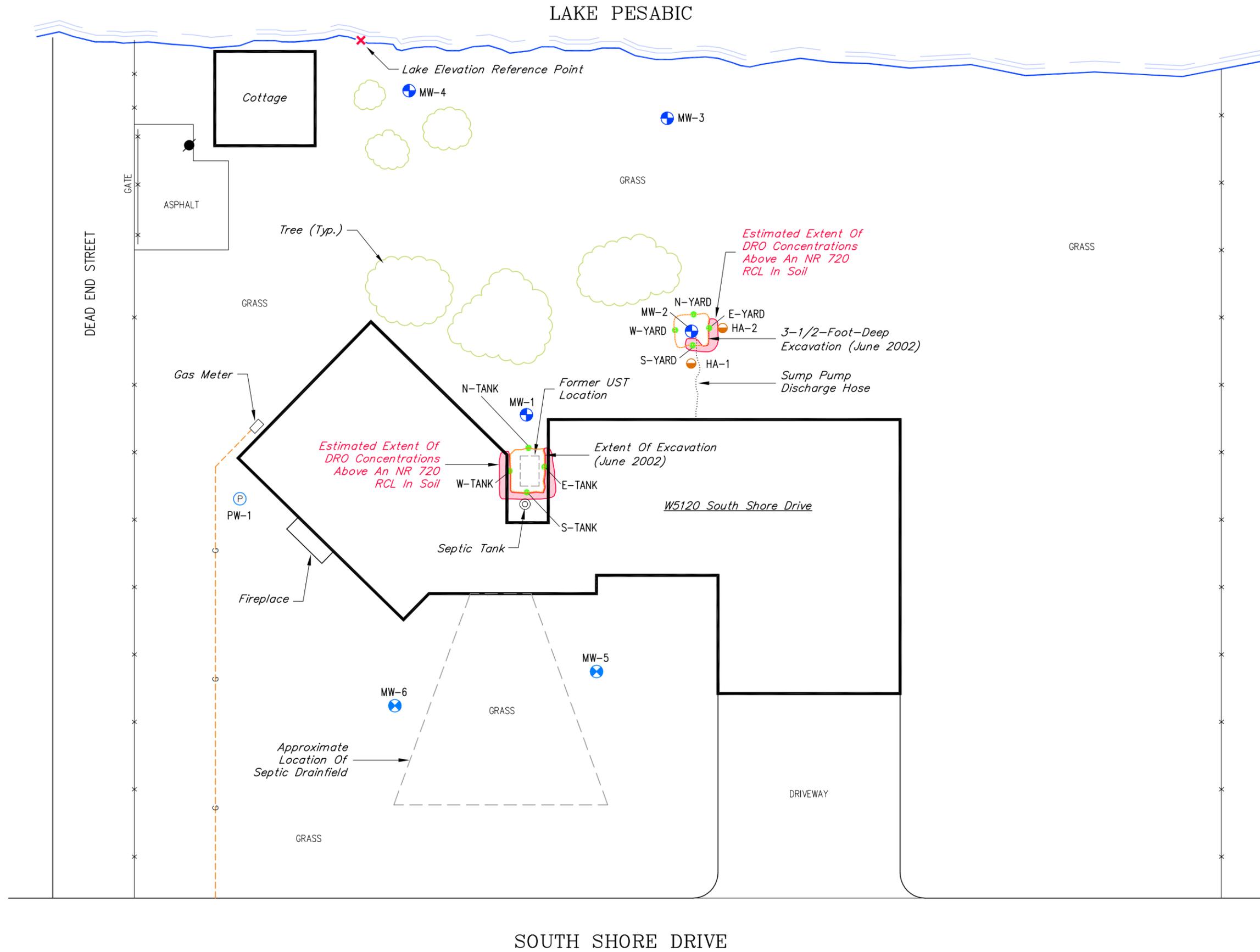
**LOCATION MAP**  
BIERMAN HEATING OIL UST  
W5120 SOUTH SHORE DRIVE  
MERRILL, WISCONSIN



**LEGEND**

- Monitoring Well Location (March 2009)
- Sidewall Soil Sample Location (June 2002)
- Hand-Auger Sample Location (September 2002)
- Monitoring Well Location (September 2002)
- Private Well Location
- Flag Pole
- Fence/Property Line

**SITE PLAN**  
 BIERMAN HEATING OIL UST  
 W5120 SOUTH SHORE DRIVE  
 MERRILL, WISCONSIN

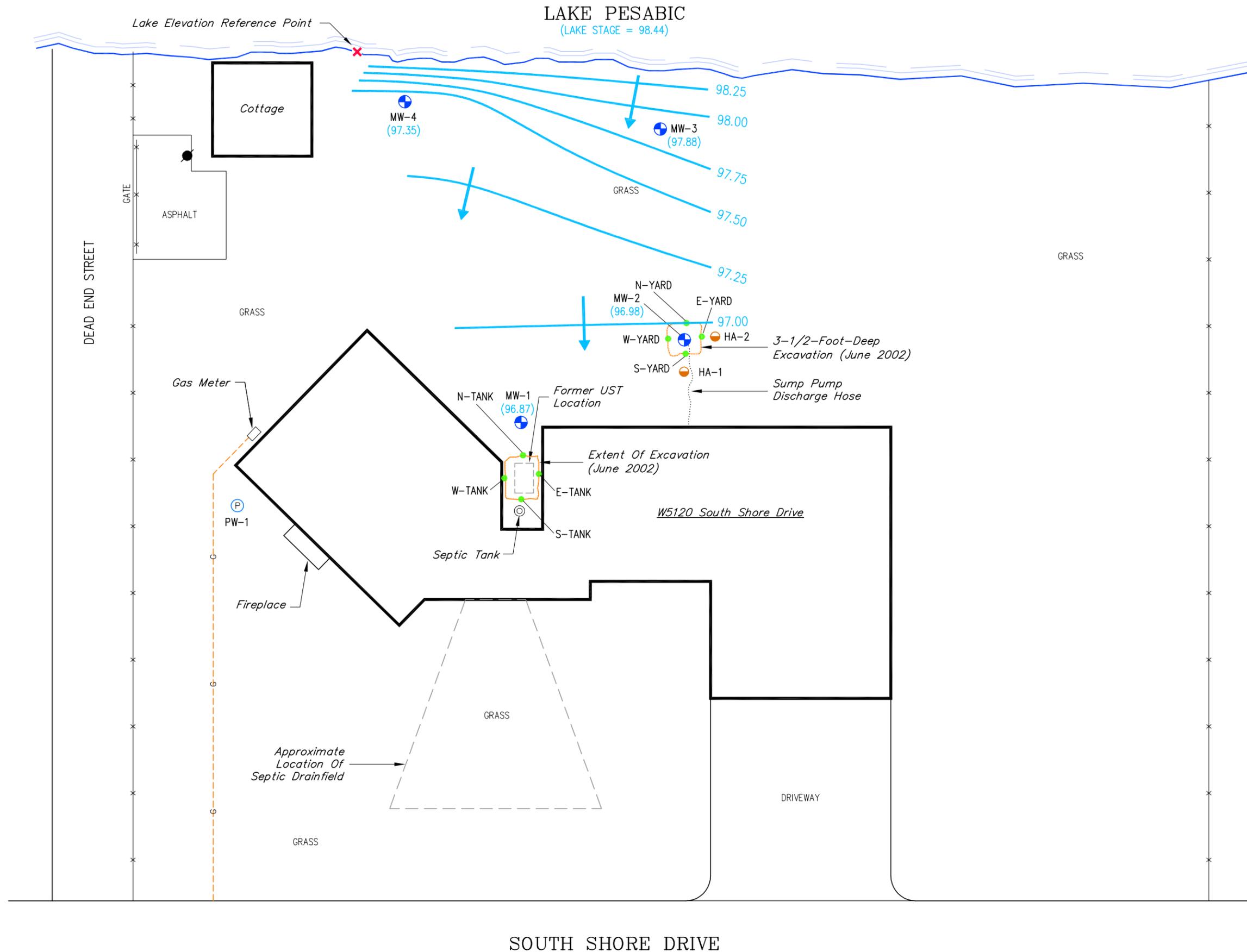


**LEGEND**

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**ESTIMATED  
EXTENT OF DRO  
CONCENTRATIONS  
ABOVE NR 720  
RCL IN SOIL**

BIERMAN HEATING OIL UST  
W5120 SOUTH SHORE DRIVE  
MERRILL, WISCONSIN

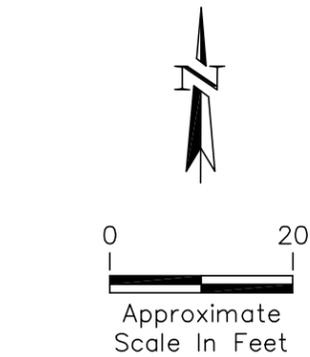
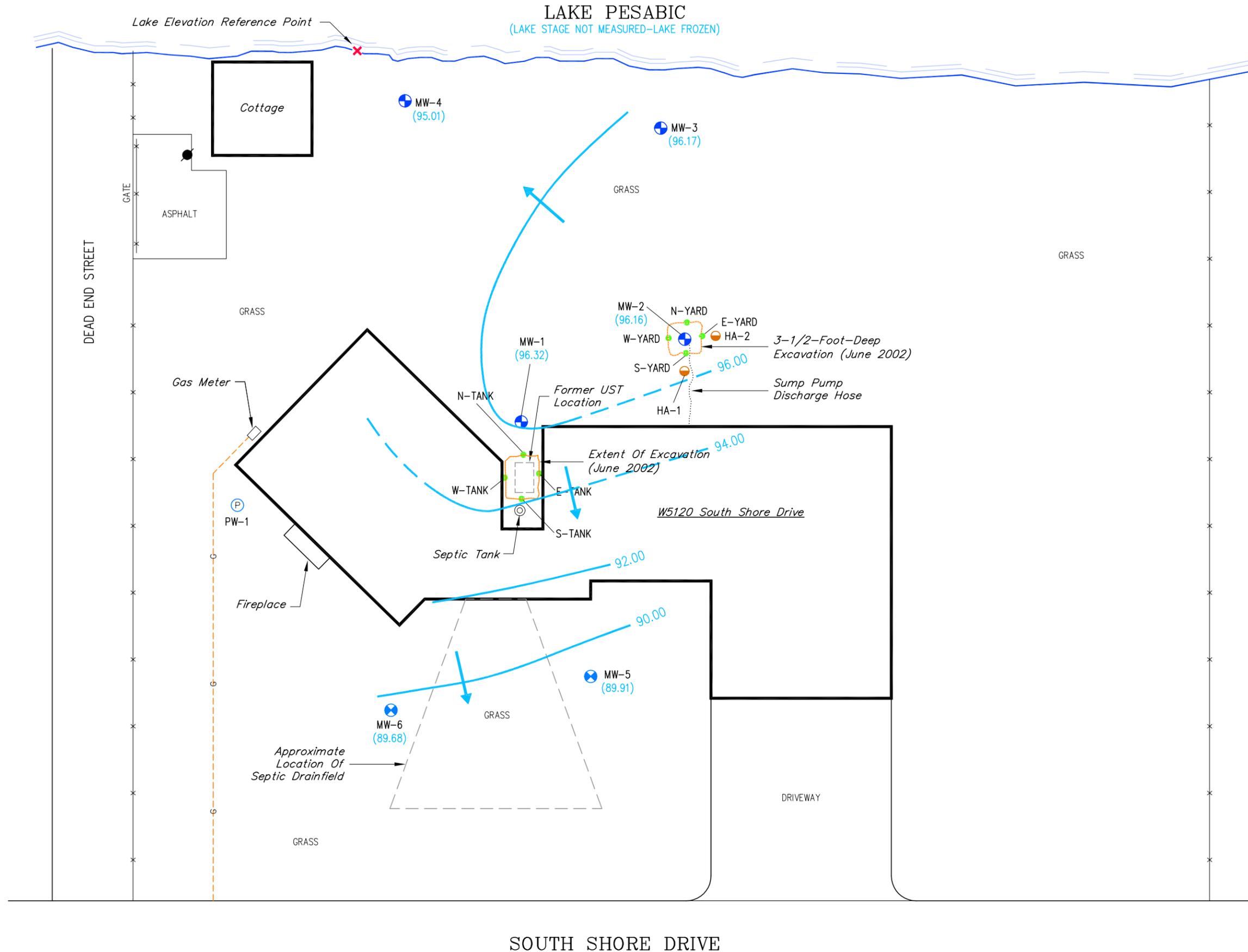


- LEGEND**
- 97.50 — Groundwater Contour (Dashed Where Inferred)
  - ← Groundwater Flow Direction
  - (97.35) — Groundwater Elevation (Ft. Above Site Datum)
  - Sidewall Soil Sample Location (June 2002)
  - Hand-Auger Sample Location (September 2002)
  - ⊕ Monitoring Well Location (September 2002)
  - Ⓟ Private Well Location
  - Flag Pole
  - x— Fence/Property Line

**NOTE**  
 Groundwater Elevations And Lake Stage Measured On June 17, 2003.

**GROUNDWATER CONTOUR MAP (JUNE 2003)**

BIERMAN HEATING OIL UST  
 W5120 SOUTH SHORE DRIVE  
 MERRILL, WISCONSIN



LEGEND

- 92.00 — Groundwater Contour (Dashed Where Inferred)
- ← Groundwater Flow Direction
- (95.01) — Groundwater Elevation (Ft. Above Site Datum)
- ⊕ — Monitoring Well Location (March 2009)
- — Sidewall Soil Sample Location (June 2002)
- — Hand-Auger Sample Location (September 2002)
- ⊕ — Monitoring Well Location (September 2002)
- Ⓟ — Private Well Location
- — Flag Pole
- x— Fence/Property Line

NOTE

Groundwater Elevations Measured On April 15, 2009.

GROUNDWATER CONTOUR MAP (APRIL 2009)

BIERMAN HEATING OIL UST W5120 SOUTH SHORE DRIVE MERRILL, WISCONSIN

BIERMAN HEATING OIL UST  
MERRILL, WISCONSIN

TABLE 1

SOIL ANALYTICAL RESULTS FOR DETECTED COMPOUNDS (mg/kg)

Sample ID	Sample Date	Depth (ft bgs)	DRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,3,5-TMB	1,2,4-TMB	MTBE	Naphthalene
North Tank	6/4/2002	2.5	46.7	NA	NA	NA	NA	NA	NA	NA	NA
South Tank	6/4/2002	2.5	<b>5,590</b>	NA	NA	NA	NA	NA	NA	NA	NA
East Tank	6/4/2002	2.5	<b>4,910</b>	NA	NA	NA	NA	NA	NA	NA	NA
West Tank	6/4/2002	2.5	<b>6,640</b>	NA	NA	NA	NA	NA	NA	NA	NA
North Yard	6/4/2002	2.5	9.76	NA	NA	NA	NA	NA	NA	NA	NA
South Yard	6/4/2002	2.5	<b>277</b>	NA	NA	NA	NA	NA	NA	NA	NA
East Yard	6/4/2002	2.5	<b>2,920</b>	NA	NA	NA	NA	NA	NA	NA	NA
West Yard	6/4/2002	2.5	5	NA	NA	NA	NA	NA	NA	NA	NA
HA-1	9/11/2002	1.5	<4.6	<0.025	<0.025	<0.025	<0.050	<0.025	<0.025	<0.025	<0.0051
HA-2	9/11/2002	1.5	<4.7	<0.025	<0.025	<0.025	<0.050	<0.025	<0.025	<0.025	<0.0051
NR 720.09 RCLs			100	0.0055	1.5	2.9	4.1	NS	NS	NS	NS
NR 746.06 Table 1 (free product indicator)			NS	8.5	38	4.6	42	11	83	NS	2.7
NR 746.06 Table 2 (direct contact standard)			NS	1.1	38	4.6	42	11	83	NS	2.7

**NOTES:**

Results reported in units of milligrams per kilogram (mg/kg) on a dry-weight basis.

Results in bold are above applicable NR 720 RCLs.

Samples HA-1 and HA-2 also analyzed for polynuclear aromatic hydrocarbons; all results below laboratory detection limits.

NR 720 and NR 746 standards obtained from [www.legis.state.wi.us/rsb/code/codtoc.html](http://www.legis.state.wi.us/rsb/code/codtoc.html) - accessed on June 12, 2009.

- NS = No standard.
- ft bgs = Feet below ground surface.
- NA = Not analyzed.
- TMB = Trimethylbenzene.
- MTBE = Methyl tertiary butyl ether.

BIERMAN HEATING OIL UST  
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TABLE 2

## GROUNDWATER ANALYTICAL RESULTS FOR DETECTED COMPOUNDS

Sample Date	DRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total TMB	s-Butylbenzene	n-Butylbenzene	Naphthalene	n-Propylbenzene	Acenaphthene	Anthracene	Benzo(a)anthracene
<b>MW-1</b>													
9/11/2002	NA	<0.25	<0.84	0.86 J	13.7	19	1.5 J	4.2	2.8	1.3	<0.11	<0.11	<0.062
12/10/2002	well dry-not sampled												
4/1/2009	NA	<0.310	<0.300	<0.500	<0.980	<0.710	NA	NA	<0.116	NA	<0.126	<0.095	<0.105
<b>MW-2</b>													
9/11/2002	NA	<0.25	<0.84	1.0 J	7.3	7.6	0.78 J	1.8 J	1.2 J	1.0 J	<0.11	<0.11	<0.064
12/10/2002	NA	<0.31	<0.3	<0.5	<0.92	<0.71	NA	NA	<0.77	NA	<0.462	<0.385	1.45
4/1/2009	NA	<0.310	<0.300	<0.500	<0.980	<0.710	NA	NA	<0.122	NA	<0.133	<0.100	<0.111
<b>MW-3</b>													
9/11/2002	NA	<0.25	<0.84	<0.53	<1.83	<1.33	<0.62	<0.65	<0.63	<0.95	<0.11	<0.11	<0.062
12/10/2002	NA	<0.31	<0.3	<0.5	<0.92	<0.71	NA	NA	<1.33	NA	0.95	0.86	1.04
4/1/2009	NA	<0.310	<0.300	<0.500	<0.980	<0.710	NA	NA	<0.122	NA	<0.133	<0.100	<0.111
<b>MW-4</b>													
9/11/2002	NA	<0.25	<0.84	<0.53	<1.83	<1.33	<0.62	<0.65	<0.63	<0.95	<0.10	<0.10	<0.059
12/10/2002	NA	<0.31	<0.3	<0.5	<0.92	<0.71	NA	NA	<0.1	NA	<0.06	<0.05	<0.04
4/1/2009	NA	<0.310	<0.300	<0.500	<0.980	<0.710	NA	NA	<0.129	NA	<0.141	<0.106	<0.118
<b>MW-5</b>													
4/1/2009	NA	<0.310	<0.300	<0.500	<0.980	<0.710	NA	NA	<0.117	NA	<0.128	<0.096	<0.106
<b>MW-6</b>													
4/1/2009	NA	<0.310	<0.300	<0.500	<0.980	<0.710	NA	NA	<0.116	NA	<0.126	<0.095	<0.105
<b>PW-1</b>													
6/6/2002	<100	<0.31	<0.3	<0.5	<0.92	<0.71	NA	NA	NA	NA	NA	NA	NA
4/1/2009	NA	<0.310	<0.300	<0.500	<0.980	<0.710	NA	NA	<0.116	NA	<0.126	<0.095	<0.105
NR 140 ES		5	1,000	700	10,000	480	NS	NS	100	NS	NS	3,000	NS
NR 140 PAL		0.5	200	140	1,000	96	NS	NS	10	NS	NS	600	NS

TABLE 2

## GROUNDWATER ANALYTICAL RESULTS FOR DETECTED COMPOUNDS

Sample Date	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(ghi)perylene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Phenanthrene	Pyrene
<b>MW-1</b>													
9/11/2002	<0.045	<0.074	<0.14	<0.18	<0.045	<0.074	<0.11	1.2	<0.062	3.4	<0.20	<0.074	<0.27
12/10/2002													
4/1/2009	<0.021	<0.042	<0.074	<0.063	<0.032	<0.116	<0.126	<0.126	<0.126	<0.084	<0.116	<0.116	<0.105
<b>MW-2</b>													
9/11/2002	<0.047	<0.077	<0.14	<0.19	<0.047	<0.077	<0.11	<0.053	<0.064	0.46 J	<0.20	<0.077	<0.28
12/10/2002	<0.131	<0.308	0.45	0.84	<b>0.95</b>	1.06	<0.462	<0.924	0.54	<0.616	<0.847	<0.616	2.79
4/1/2009	<0.022	<0.044	<0.078	<0.067	<0.033	<0.122	<0.133	<0.133	<0.133	<0.089	<0.122	<0.122	<0.111
<b>MW-3</b>													
9/11/2002	<0.045	<0.074	<0.14	<0.18	<0.045	<0.074	<0.11	<0.052	<0.062	0.57 J	1.2	<0.074	<0.27
12/10/2002	<b>1.66</b>	<b>0.84</b>	<0.532	0.99	<0.665	<0.798	1.93	<1.60	<0.665	<1.06	<1.46	1.56	1.82
4/1/2009	<0.022	<0.044	<0.078	<0.067	<0.033	<0.122	<0.133	<0.133	<0.133	<0.089	<0.122	<0.122	<0.111
<b>MW-4</b>													
9/11/2002	<0.044	<0.071	<0.13	<0.17	<0.044	<0.071	<0.10	<0.050	<0.059	0.21 J	0.46 J	<0.071	<0.26
12/10/2002	<0.017	<0.04	<0.04	<0.05	<0.05	<0.06	<0.06	<0.12	<0.05	<0.08	<0.11	<0.08	<0.09
4/1/2009	<0.024	<0.047	<0.082	<0.071	<0.035	<0.129	<0.141	<0.141	<0.141	<0.094	<0.129	<0.129	<0.118
<b>MW-5</b>													
4/1/2009	<0.021	<0.043	<0.074	<0.064	<0.032	<0.117	<0.128	<0.128	<0.128	<0.085	<0.117	<0.117	<0.106
<b>MW-6</b>													
4/1/2009	<0.021	<0.042	<0.074	<0.063	<0.032	<0.116	<0.126	<0.126	<0.126	<0.084	<0.116	<0.116	<0.105
<b>PW-1</b>													
6/6/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4/1/2009	<0.021	<0.042	<0.074	<0.063	<0.032	<0.116	<0.126	<0.126	<0.126	<0.084	<0.116	<0.116	<0.105
NR 140 ES	0.2	0.2	NS	NS	0.2	NS	400	400	NS	NS	NS	NS	250
NR 140 PAL	0.02	0.02	NS	NS	0.02	NS	80	80	NS	NS	NS	NS	50

**NOTES:**Results reported in units of micrograms per liter ( $\mu\text{g}/\ell$ ).

Results in bold are above applicable NR 140 ESs.

Samples collected on 09/11/2002 were analyzed for volatile organic compounds and polynuclear aromatic hydrocarbons, only detected compounds shown in table.

NR 140 standards obtained from [www.legis.state.wi.us/rsb/code/codtoc.html](http://www.legis.state.wi.us/rsb/code/codtoc.html) - accessed on June 12, 2009.

J = The analyte was detected between the limit of detection and limit of quantitation. The results are qualified due to the uncertainty of analyte concentrations within this range.

NA = Not analyzed.

TMB = Trimethylbenzene.

NS = No standard.

NR 140 ES = Wisconsin Administrative Code NR 140 enforcement standard.

NR 140 PAL = Wisconsin Administrative Code NR 140 preventative action limit.

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TABLE 3

WELL AND WATER ELEVATIONS AND DEPTH TO WATER MEASUREMENTS

	Monitoring Well I.D.						
	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	Pesabic Lake
Top of Casing Elevation (ASD in feet)	100.45	100.04	99.3	99.16	100.35	100.43	
Top of Screen Elevation (ASD in feet)	99.6	99.19	98.3	99.01	97.35	95.78	
Bottom of Well Elevation (ASD in feet)	94.6	94.19	95.3	94.01	85.35	85.78	
Ground Surface Elevation (ASD in feet)	100.67	100.33	99.57	99.58	NS	NS	99.84 *
Measurement Date	Depth to Water from Top of Casing (feet)						
9/11/2002	NM	NM	NM	NM	NI	NI	NM
12/11/2002	dry	4.72	2.87	3	NI	NI	frozen
6/17/2003	3.58	3.06	1.42	1.81	NI	NI	1.4
4/1/2009	2.73	3.11	2.14	3.62	10.73	10.80	frozen
4/15/2009	4.13	3.88	3.13	4.15	10.44	10.75	NM
Measurement Date	Water Elevation (feet above site datum)						
9/11/2002	NM	NM	NM	NM	NI	NI	98.15
12/11/2002	dry	95.32	96.43	96.16	NI	NI	frozen
6/17/2003	96.87	96.98	97.88	97.35	NI	NI	98.44
4/1/2009	97.72	96.93	97.16	95.54	89.62	89.63	frozen
4/15/2009	96.32	96.16	96.17	95.01	89.91	89.68	NM

**NOTES:**

Site datum assumed as southeast corner of top of concrete at base of flagpole located in northwest corner of property.

Datum elevation assumed to be 100 feet.

Lake elevation was surveyed on September 11, 2002.

\* = Reference elevation is a marked "X" located on wood board located near cottage, perpendicular to dock and parallel to shoreline.

ASD = Above site datum.

NM = Not measured.

NI = Not installed - MW-5 and MW-6 installed on March 17, 2009.

NS = Not surveyed, all wells were completed as flush mounts.