

# GIS REGISTRY

## Cover Sheet

May, 2009  
(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")*

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:

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 or economic  
development corporation)*

#### 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.)
- 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: Wisconsin Public Service Corporation**
- 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 MAP**
- 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 #: 2                      Title: SITE MAP**

BRRTS #: 02-38-000656

ACTIVITY NAME: Wisconsin Public Service Corp

**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 #: 4**                      **Title: GEOLOGIC CROSS SECTION B - B'**

- 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 #: 2**                      **Title: SITE MAP**

- 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 #: 7**                      **Title: GROUNDWATER CONTOUR MAP 4-21-06**

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

**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 #: 2,3**                      **Title: SOIL ANALYSIS, SOIL BORING ANALYSIS FROM MONITORING WELL INSTALLATION**

- 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 #: 6 to 10**                      **Title: GROUNDWATER ANALYSIS**

- 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 #: 4**                      **Title: GROUNDWATER ELEVATIONS**

**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 #: 02-38-000656

ACTIVITY NAME: Wisconsin Public Service Corp

## 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:**
- 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**

Jim Doyle, Governor  
Matthew J. Frank, Secretary

101 S. Webster St.  
Box 7921  
Madison, Wisconsin 53707-7921  
Telephone 608-266-2621  
FAX 608-267-3579  
TTY Access via relay - 711

March 18, 2010

Wisconsin Public Service Corporation  
Mr. Brian Bartoszek  
PO Box 19002  
Green Bay, WI 54307

**SUBJECT: Final Case Closure with Continuing Obligations, Wisconsin Public Service Corporation – Marinette, W1830 West Cleveland Avenue, Marinette, WI. WDNR BRRTS Activity #: 02-38-000656**

Dear Mr. Bartoszek:

On June 4, 2007, the Northeast Region 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 June 18, 2007, you were notified that the Closure Committee had granted conditional closure to this case.

On March 18, 2010, the Department received information or documentation indicating that you have complied with the requirements for final closure. The conditional closure letter required the submittal of an updated GIS form, a \$200 soil GIS fee, well abandonment documentation, and documentation of the removal of soil piles.

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
- Pavement, an engineered cover or a soil barrier must be maintained over contaminated soil and the state must approve any changes to this barrier
- Groundwater contamination is present above Chapter NR 140 enforcement standards

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 including compliance with referenced maintenance plans are met.

### Cover or Barrier

Pursuant to s. 292.12(2)(a), Wis. Stats., the gravel cover that currently exists in the location shown on the attached map shall be maintained in compliance with the attached maintenance plan in order to prevent direct contact with residual soil contamination that might otherwise pose a threat to human health.

If soil in the specific locations described above is excavated in the future, 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.

The attached maintenance plan and inspection log are to be kept up-to-date and on-site. Please submit the inspection log to the Department annually.

### Prohibited Activities

The following activities are prohibited on any portion of the property where the gravel cover is required as shown on the attached map, unless prior written approval has been obtained from the Wisconsin Department of Natural Resources: 1) removal of the existing barrier; 2) replacement with another barrier; 3) excavating or grading of the land surface; 4) filling on capped or paved areas; 5) plowing for agricultural cultivation; 6) construction or placement of a building or other structure.

### Residual Groundwater Contamination

Groundwater impacted by petroleum contamination greater than enforcement standards set forth in ch. NR140, Wis. Adm. Code, is present on this contaminated property. For more detailed information regarding the locations where groundwater samples have been collected (i.e., monitoring well locations) and the associated contaminant concentrations, refer to the Remediation and Redevelopment Program's GIS Registry at the RR Sites Map page at <http://dnr.wi.gov/org/aw/rr/gis/index.htm>.

### Dewatering Permits

The Department's Watershed Management Program regulates point source discharges of contaminated water, including discharges to surface waters, storm sewers, pits or to the ground surface. This includes discharges from construction related dewatering activities, including utility and building construction.

Based on the concentrations of contaminants remaining in groundwater at this location, it appears likely that dewatering activities would require a permit from the Watershed Management Program. If you or any other person plan to conduct such activities, you or that person must contact that program, and if necessary, apply for the necessary discharge permit. Additional information regarding discharge permits is available at <http://www.dnr.state.wi.us/org/water/wm/ww/>

### Post-Closure Notification Requirements

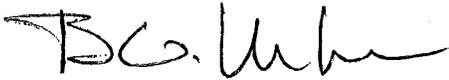
In accordance with ss, 292.12 and 292.13, Wis. Stats., you must notify the Department before making changes that affect or relate to the conditions of closure in this letter. For this case, examples of changed conditions requiring prior notification include, but are not limited to:

- Disturbance, construction on, change or removal in whole or part of pavement, an engineered cover or a soil barrier that must be maintained over contaminated soil

Please send written notifications in accordance with the above requirements to Jason Moeller of our Green Bay Office.

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 Jim Walden at 608-267-7572.

Sincerely,



Bruce Urben, Team Supervisor  
Northeast Remediation & Redevelopment Program

Attachment: Maintenance Plan

cc: Mark Foht – Robert E. Lee

## EXISTING COVER AND BARRIER MAINTENANCE PLAN

10/06/2008

Property Located at:

Wisconsin Public Service Combustion Turbine Site  
W1830 W Cleveland Avenue  
Marinette, WI

WDNR BRTTS/ACTIVITY # 02-38-000656

### LEGAL DESCRIPTION:

Part of the Southwest Quarter of the Northeast Quarter (SW1/4 NE1/4) of Section Ten (10), Township Thirty (30) North, of Range Twenty-three (23) East, Town of Peshtigo, described as follows: Beginning at the Southeast corner of the Southwest Quarter of the Northeast Quarter (SW1/4 NE1/4) of Section Ten (10), Township Thirty (30) North, of Range Twenty-three (23) East; thence Northerly along the East line of said Southwest Quarter of the Northeast Quarter (SW1/4 NE1/4) a distance of six hundred sixty (660) feet; thence Westerly parallel with the South line of said Southwest Quarter of the Northeast Quarter (SW1/4 NE1/4) a distance of six hundred sixty (660) feet; thence Southerly parallel with the East line of said Southwest Quarter of the Northeast Quarter (SW1/4 NE1/4) six hundred sixty (660) feet to the South line of said Southwest Quarter of the Northeast Quarter (SW1/4 NE1/4); thence Easterly along the South line of said Southwest Quarter of the Northeast Quarter (SW1/4 NE1/4) six hundred sixty (660) feet to the point of beginning; containing ten (10) acres, except parts dedicated for road use.

### Introduction

This document is the Maintenance Plan for an existing cover and/or barrier at the above-referenced property in accordance with the requirements of s. NR 724.13(2), Wisconsin Administrative Code. The maintenance activities relate to the existing gravel/soil cover and tank berm occupying the area over the contaminated soil. The contaminated soil is impacted by polycyclic aromatic hydrocarbons (PAH). The location of the gravel/soil pervious surface to be maintained in accordance with this Maintenance Plan, as well as the impacted soils, are identified in the attached map (Exhibit A).

### Cover Barrier Purpose

The gravel/soil surfaces and tank berm over the contaminated soil serve as a barrier to prevent direct human contact with residual soil contamination that might otherwise pose a threat to human health. These surfaces also act as a partial infiltration barrier to minimize future soil-to-groundwater contamination migration that would violate the groundwater standards in ch. NR 140, Wisconsin Administrative Code. Based on the current and future use of the property, the barrier should function as intended unless disturbed.

## Annual Inspection

The gravel/soil surfaces and tank berm overlying the contaminated soil as depicted in Exhibit A will be inspected once a year, normally in the spring after all snow and ice is gone, for deterioration, cracks and other potential problems that can cause exposure to underlying soils. The inspections will be performed to evaluate damage due to settling, exposure to the weather, wear from traffic, increasing age and other factors. Any area where soils have become or are likely to become exposed will be documented. A log of the inspections and any repairs will be maintained by the property owner and is included as Exhibit B, Cap Inspection Log. The log will include recommendations for necessary repair of any areas where underlying soils are exposed. Once repairs are completed, they will be documented in the inspection log. A copy of the inspection log will be sent to the Wisconsin Department of Natural Resources (WDNR) at least annually after every inspection, unless otherwise directed in the case closure letter.

## Maintenance Activities

If problems are noted during the annual inspections or at any other time during the year, repairs will be scheduled as soon as practical. Repairs can include patching and filling operations or they can include larger resurfacing or construction operations. In the event that necessary maintenance activities expose the underlying soil, the owner must inform maintenance workers of the direct contact exposure hazard and provide them with appropriate personal protection equipment (PPE). The owner must also sample any soil that is excavated from the site prior to disposal to ascertain if contamination remains. The soil must be treated stored and disposed of by the owner in accordance with applicable local, state and federal law.

In the event the gravel/soil and tank berm surfaces overlying the contaminated soil are removed or replaced, the replacement barrier must be equal to that of the original overlying surface. Any replacement barrier will be subject to the same maintenance inspection guidelines as outlined in the Maintenance Plan unless indicated otherwise by the WDNR or its successor.

The property owner, in order to maintain the integrity of the existing surface, will maintain a copy of the Maintenance Plan on-site and make it available to all interested parties (ie. on-site employees, contractors, future property owners, etc.) for viewing.

## Amendment or Withdrawal of Maintenance Plan

This Maintenance Plan can be amended or withdrawn by the property owner and its successors with the written approval of WDNR.

**Contact Information**  
10/6/2008

**Site Owner and Operator:** Wisconsin Public Service Corporation  
Mr. Brian Bartoszek  
PO Box 19002  
Green Bay, WI 54307-9042  
920-433-2643

**Consultant:** Mark Foht  
Robert E. Lee & Associates  
4664 Golden Pond Park Ct.  
Oneida, WI 54155  
920-662-9641

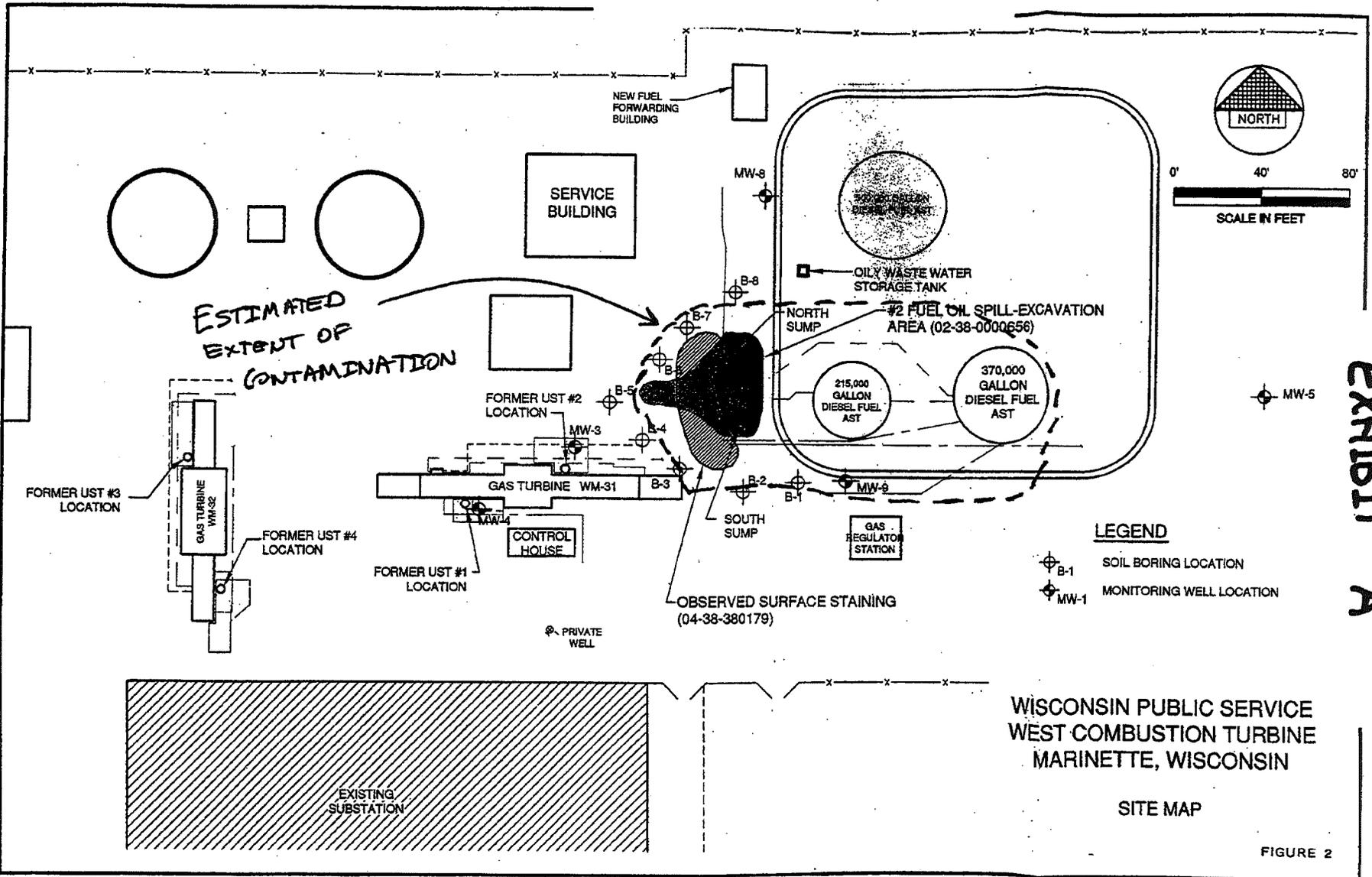


EXHIBIT "A"

WISCONSIN PUBLIC SERVICE  
 WEST COMBUSTION TURBINE  
 MARINETTE, WISCONSIN

SITE MAP

FIGURE 2

File: R:\1100\1134\1134074\dwg\SITE.DWG  
 Plot Date: Oct 10, 2006 - 4:07pm

**Exhibit B**  
**Barrier INSPECTION LOG**

<b>Inspection Date</b>	<b>Inspector</b>	<b>Condition of Cap</b>	<b>Recommendations</b>	<b>Have Recommendations from previous inspection been implemented?</b>



## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor  
Scott Hassett, Secretary  
Ronald W. Kazmierczak, Regional Director

Northeast Region Headquarters  
2984 Shawano Ave., P.O. Box 10448  
Green Bay, Wisconsin 54307-0448  
Telephone 920-662-5100  
FAX 920-662-5413  
TTY Access via relay - 711

June 18, 2007

Wisconsin Public Service Corporation  
Ms. Connie Lawniczak  
PO Box 19002  
Green Bay, WI 54307-9042

Subject: Conditional Closure Decision,  
With Requirements to Achieve Final Closure  
Wisconsin Public Service - Marinette, Wisconsin  
WDNR BRRTS Activity # 02-38-000656

Dear Ms. Lawniczak:

On June 4, 2007, the Northeast Region Closure Committee reviewed your request for closure of the case described above. The Northeast Region 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 Northeast Region Closure Committee has determined that the diesel fuel contamination on the site from the spill which resulted from a ruptured pipe 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:

### GIS Registry – Soil

Because the presence of underground gas and electrical lines and the tank bermed prevented complete investigation and excavation of contaminated soils, a condition of final closure will be that the site is listed on the GIS Registry for both groundwater and soil with a requirement to completely investigate soil contamination if these structural impediments are ever removed. Therefore, you will have to revise the closure/GIS form and submit it and the additional \$200 GIS Registry maintenance fee for soil, before final closure can be issued. Because the confirmation soil samples (S1, 4, 6 and 7) had high levels of DRO and polycyclic aromatic hydrocarbon (PAH) concentrations are unknown, you must submit a plan for maintaining the gravel/soil cover to prevent possible direct contact exposure from PAHs.

### 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 Jim Walden on Form 3300-5B found at [www.dnr.state.wi.us/org/water/dwg/gw/](http://www.dnr.state.wi.us/org/water/dwg/gw/) or provided by the Department of Natural Resources.

Purge Water, Waste, and Soil Pile Removal

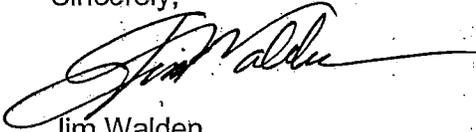
Any remaining purge water, waste and/or soil piles generated as part of site investigation or remediation activities must be removed from the site and disposed of or treated in accordance with Department of Natural Resources' rules. Once that work is completed, please send appropriate documentation regarding the treatment or disposal of the remaining purge water, waste and/or soil piles.

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 of Closed Remediation Sites. 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 <http://maps.dnr.state.wi.us/brrts>.

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.

We appreciate your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at 608-267-7572.

Sincerely,



Jim Walden  
Hydrogeologist  
Bureau for Remediation & Redevelopment

Enclosure

cc: James Caine – Robert E Lee

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318867

Whereas, CLARA STAUDENMAIER of Marinette County, State of Wisconsin, on the 7th day of June, 1951, made, published and declared her last will and testament, and by which she appointed HENRIETTA STAUDENMAIER WARCHOL her executrix of said will, and therein empowered the said executrix

to grant, bargain, sell and convey any and all real estate of which said testatrix might die seized or possessed, and therein also authorized and empowered said executrix, upon the sale of any such real estate, to make, execute, acknowledge and deliver sufficient deeds of conveyance to convey and assure to the purchaser or purchasers, all the right, title and interest of the said testatrix in or to the said real estate, and

Whereas, the said testatrix died on the 30th day of April, 1963, at Marinette, Wisconsin, then being an inhabitant of the County of Marinette, State of Wisconsin, and

Whereas, such proceedings were had in the county court of said County of Marinette State of Wisconsin, that on the 10th day of May, 1963, the said will of said Clara Staudenmaier was duly allowed and admitted to probate, as and for the last will and testament of the said Clara Staudenmaier deceased, and Henrietta Staudenmaier Warchol

by said court appointed executrix of the said last will and testament and letters testamentary were thereupon duly issued out of and under the seal of the said county court to the said Henrietta Staudenmaier Warchol, empowering her to execute the said will, and carry out all the powers conferred upon the said executrix therein, and

Whereas, the said Henrietta Staudenmaier Warchol duly qualified as such executrix and she is now acting as such executrix, and the said executrix having contracted with

Wisconsin Public Service Corporation for the sale and conveyance to Wisconsin Public Service Corporation of the lands herein described, for the sum of Twenty-two hundred fifty and no/100 - - - (\$2,250.00) - - - - Dollars, the same being a full and adequate price therefor.

Now Therefore, this Indenture Witnesseth, That the said HENRIETTA STAUDENMAIER WARCHOL

of the estate of Clara Staudenmaier part y of the first part, in pursuance of the said will and the powers therein conferred, and of said letters testamentary, and in consideration of the sum of Twenty-two hundred fifty and no/100 - - - (\$2,250.00) - - - - Dollars, to her in hand paid by the said WISCONSIN PUBLIC SERVICE CORPORATION, part y of the second part, receipt whereof is hereby acknowledged, has granted, bargained, sold and conveyed, and by these presents does grant, bargain, sell and convey unto the said party of the second part, its heirs and assigns forever, all of the following described piece or parcel of land lying and being in the County of Marinette, State of Wisconsin described as follows, to-wit:

Part of the Southwest Quarter of the Northeast Quarter (SW 1/4 NE 1/4) of Section Ten (10), Township Thirty (30) North, of Range Twenty-three (23) East, Town of Peshtigo, described as follows: Beginning at the Southeast corner of the Southwest Quarter of the Northeast Quarter (SW 1/4 NE 1/4) of Section Ten (10), Township Thirty (30) North, of Range Twenty-three (23) East; thence Northerly along the East line of said Southwest Quarter of the Northeast Quarter (SW 1/4 NE 1/4) a distance of six hundred sixty (660) feet; thence Westerly parallel with the South line of said Southwest Quarter of the Northeast Quarter (SW 1/4 NE 1/4) a distance of six hundred sixty (660) feet; thence Southerly parallel with the East line of said Southwest Quarter of the Northeast Quarter (SW 1/4 NE 1/4) six hundred sixty (660) feet to the South line of said Southwest Quarter of the Northeast Quarter (SW 1/4 NE 1/4); thence Easterly along the South line of said Southwest Quarter of the Northeast Quarter (SW 1/4 NE 1/4) six hundred sixty (660) feet to the point of beginning; containing ten (10) acres, except parts dedicated for road use.

1547-64



To Have and to hold the said tract or parcel of land, with the hereditaments and appurtenances thereunto belonging, unto the said party of the second part, its heirs and assigns forever;

and the said part y of the first part does hereby covenant with the part y of the second part, its heirs and assigns, that she has not done or suffered any act or thing by which the title hereby conveyed has been impaired, encumbered or affected in any way or manner whatever; and that the same in the quiet and peaceful possession and enjoyment of the said part y of the second part, its heirs and assigns forever, she will forever warrant and defend against all acts of the said part y of the first part.

In Witness Whereof, the said part y of the first part has hereunto set her hand and seal this 5th day of March, 1965.

In Presence of

*R. E. Neumann*

R. E. Neumann

*Elizabeth A. Caswell*

Elizabeth A. Caswell

*Henrietta Staudenmaier Warchol* (Seal)

Henrietta Staudenmaier Warchol

(Seal)

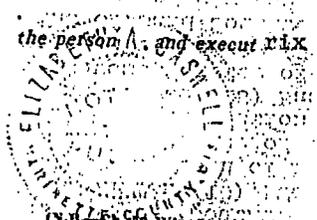
As executrix of the will of said Clara Staudenmaier, Deceased.

State of Wisconsin,

County of Marinette ss.

Personally came before me this 5th day of March, 1965, the above named Henrietta Staudenmaier Warchol

the person and executrix who executed the above and foregoing deed and acknowledged the same.



*Elizabeth A. Caswell*

Elizabeth A. Caswell

Notary Public, Marinette Co., Wis.  
My commission expires Nov. 14, 1965

(N.B. Ch. 48, Wis. Stat., provides that all instruments to be recorded shall have plainly printed or typewritten thereon the names of grantors, grantees, witnesses and notary.)

This instrument prepared by Atty. L. W. Staudenmaier

IR 1547-64-350-01-1

Trans. No. 3356

RECORDED No. 318867	1965 MAR 17 AM 9:19 <i>R. E. Neumann</i> REGISTER OF DEEDS OF MARINETTE COUNTY, WIS. To	EXECUTOR'S DEED On Power of Sale in Will.	REGISTERS OFFICE, County, Wis. Received for Record this _____ day of _____, 19 _____ at _____ o'clock _____ M., and recorded in Vol. _____ of Deeds on page _____ Register of Deeds.
------------------------	---	--	---

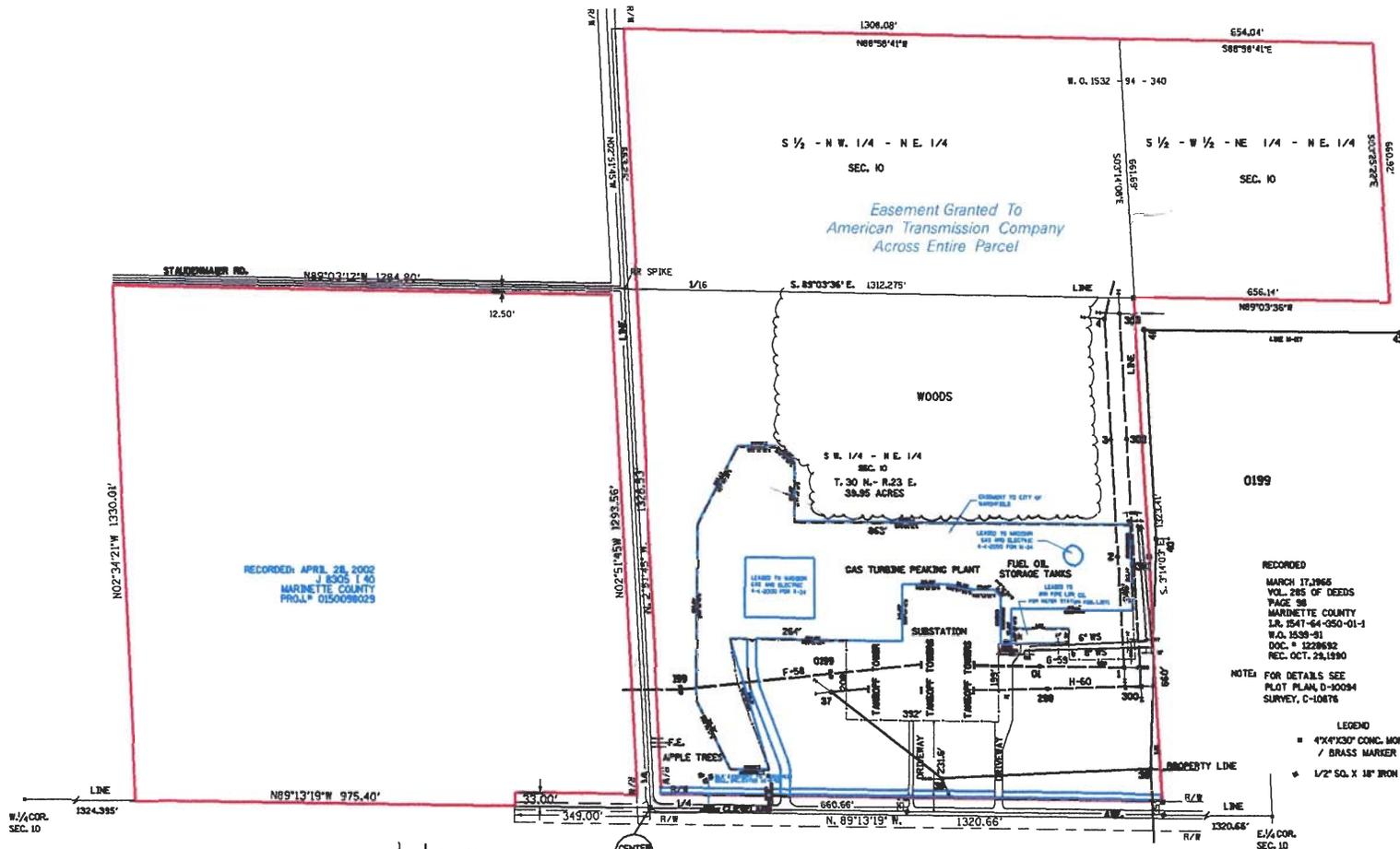
*WRB*  
*BBB*

TOWN OF PESHTIGO

T. 30 N - R. 23 E.

MARINETTE COUNTY

179  
CADD  
05/30/95

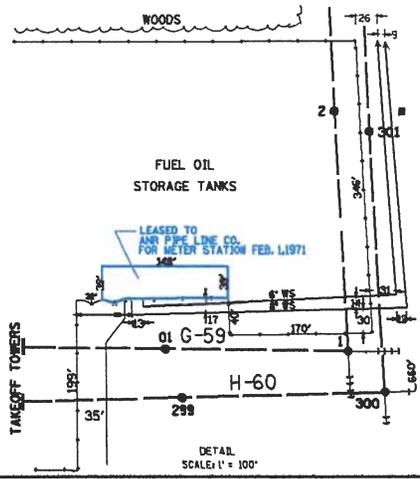


RECORDED: APRIL 28, 2002  
J. 8305 L 40  
MARINETTE COUNTY  
PROL# 0150098023

RECORDED  
MARCH 17, 1965  
VOL. 285 OF DEEDS  
PAGE 88  
MARINETTE COUNTY  
L.R. 8547-64-050-01-1  
W.O. 1539-01  
DOC. # 1228692  
REC. OCT. 28, 1990

NOTES FOR DETAILS SEE  
PLOT PLAN D-10094  
SURVEY, C-10676

LEGEND  
■ 4"x4"x30" CONC. MON.  
/ BRASS MARKER  
◆ 1/2" SQ. X 18" IRON BAR



DETAIL  
SCALE: 1" = 100'

SCALE: 1" = 200'

WISCONSIN PUBLIC SERVICE CORPORATION  
WEST MARINETTE SUBSTATION SITE  
TOWN OF PESHTIGO, MARINETTE COUNTY, WISCONSIN

SCALE: As Noted  
Revised 10/31/02 by KMP

DRAWN BY: DJS  
APP'D BY: TRF

DATE: 05-30-95  
DATE: 05-30-95

5

**STATEMENT OF PROPERTY LEGAL DESCRIPTION**

As required by s. NR 726.05(3) of the Wisconsin Administrative Code, I am providing this signed statement which refers to the site identified by the Wisconsin Department of Natural Resources BRRS #02-38-000656, located in Marinette, Wisconsin, that legal descriptions for each property that is within, or partially within, the contaminated site's boundaries have been attached.

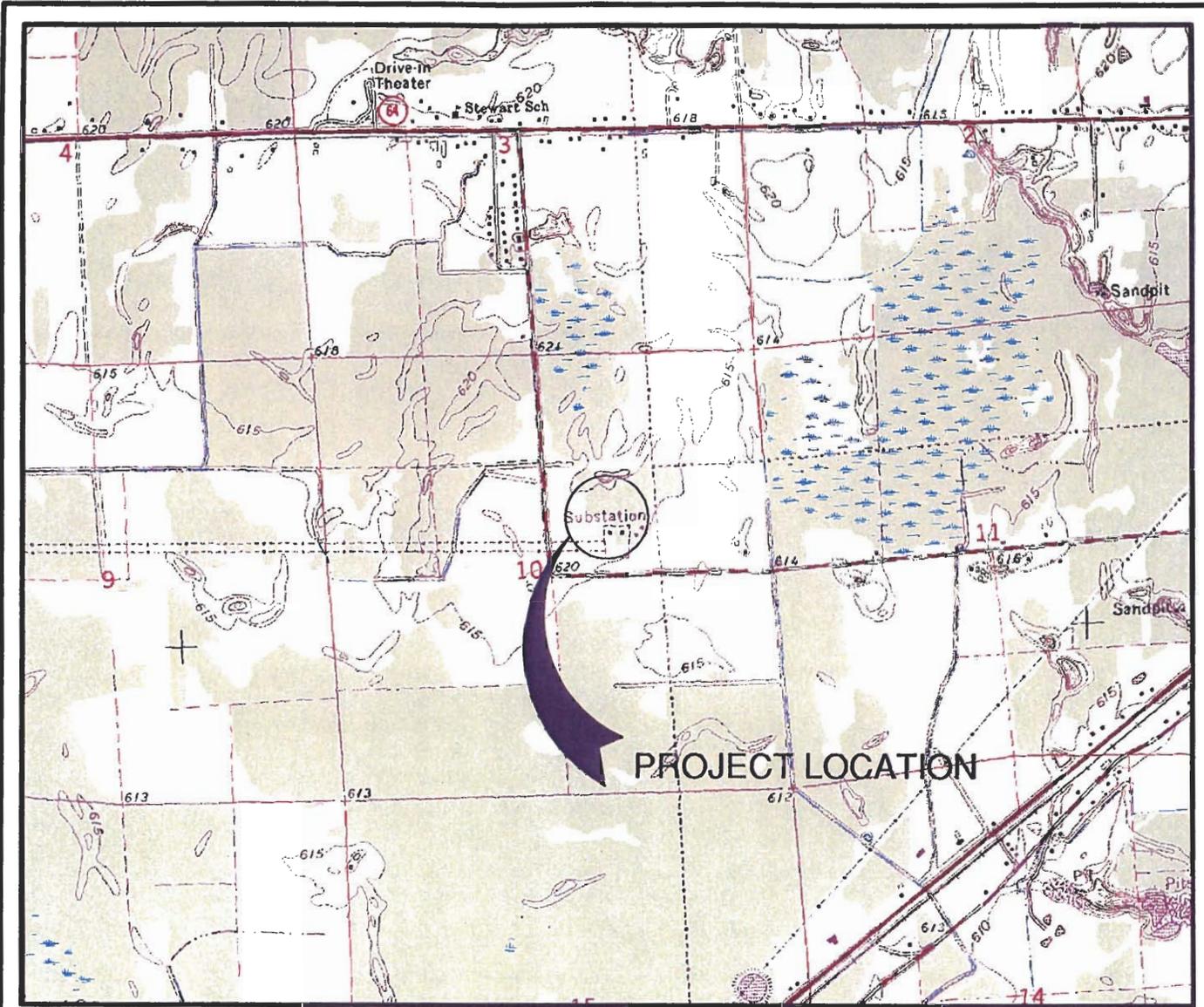
Kim M. Michiels  
Signature

2-28-07  
Date

Kim M. Michiels  
Name

Real Estate Agent  
Title

Wisconsin Public Service Corp.  
Company



## LOCATION MAP

# WISCONSIN PUBLIC SERVICE WEST MARINETTE COMBUSTION TURBINE MARINETTE, WISCONSIN



1" = 2000'

FIGURE 1

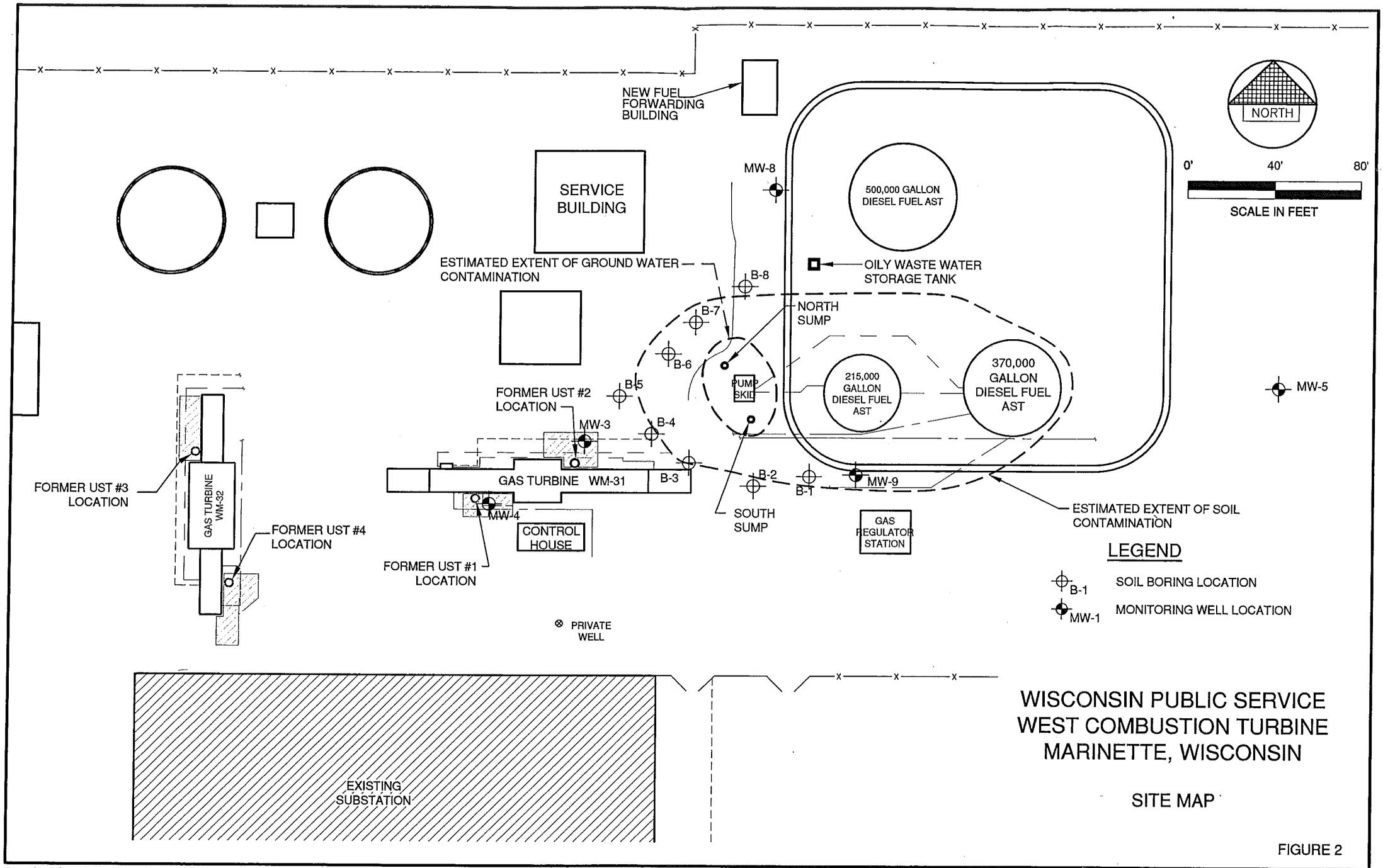
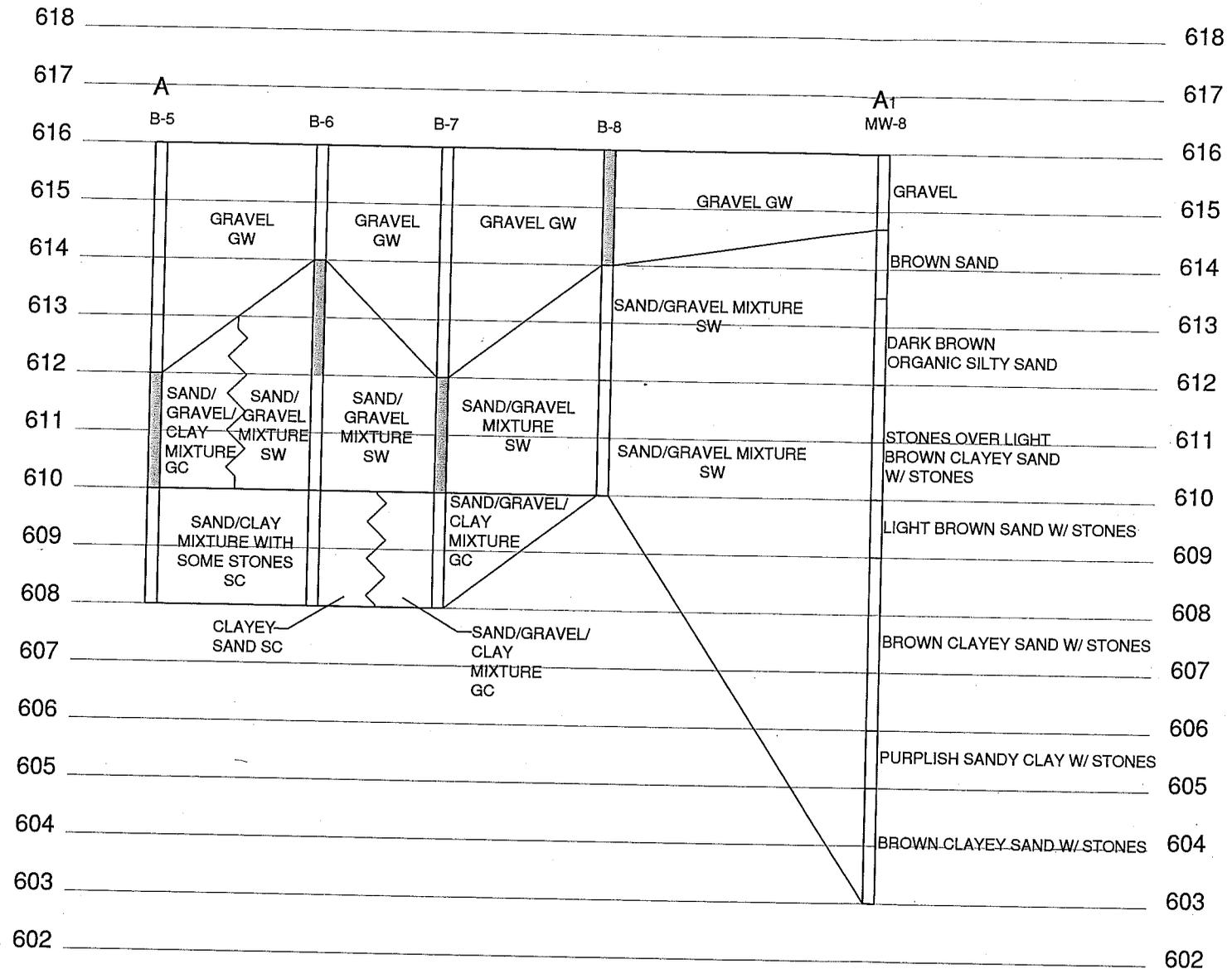
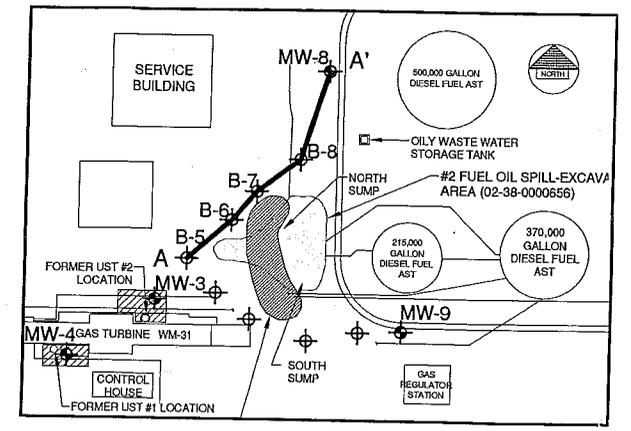


FIGURE 2



NOTE:  
GROUND SURFACE ELEVATION AT SOIL BORINGS ASSUMED AT 616 MSL THROUGH INTERPOLATION BETWEEN RECORDED GROUND SURFACE AT MONITORING WELLS MW-3, MW-8 AND MW-9.



**SCALE**

VERTICAL 1" = 2'  
HORIZONTAL 1" = 10'

**LEGEND**

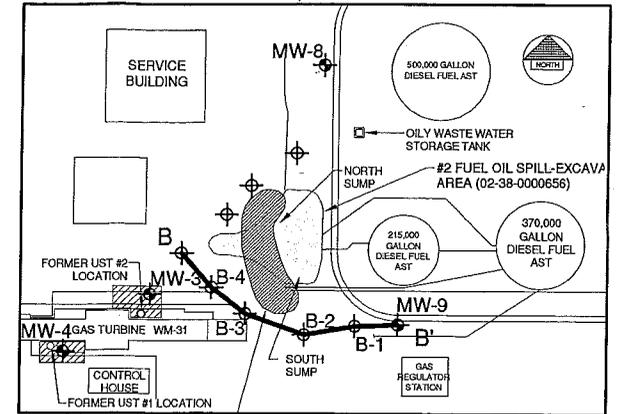
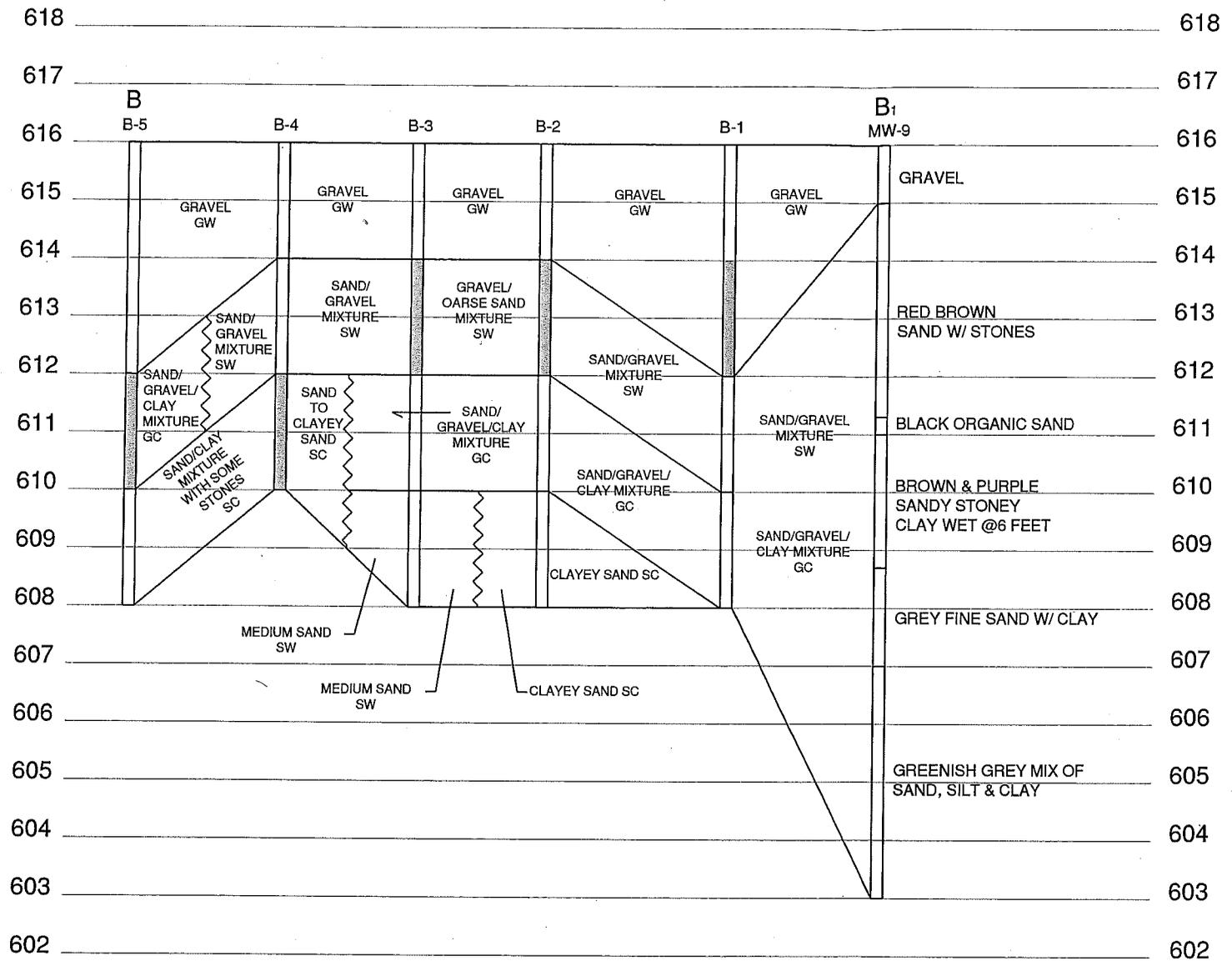
BELOW NR720 SOIL STANDARDS

WISCONSIN PUBLIC SERVICE  
WEST MARINETTE  
COMBUSTION TURBINE  
MARINETTE, WISCONSIN

GEOLOGIC CROSS SECTION

FIGURE #3

File: R:\1100\1134\1134074\dwg\GEO\_XSECTION.dwg  
Plot Date: Feb 05, 2009 - 1:14pm



**SCALE**

VERTICAL 1" = 2'  
 HORIZONTAL 1" = 10'

**LEGEND**

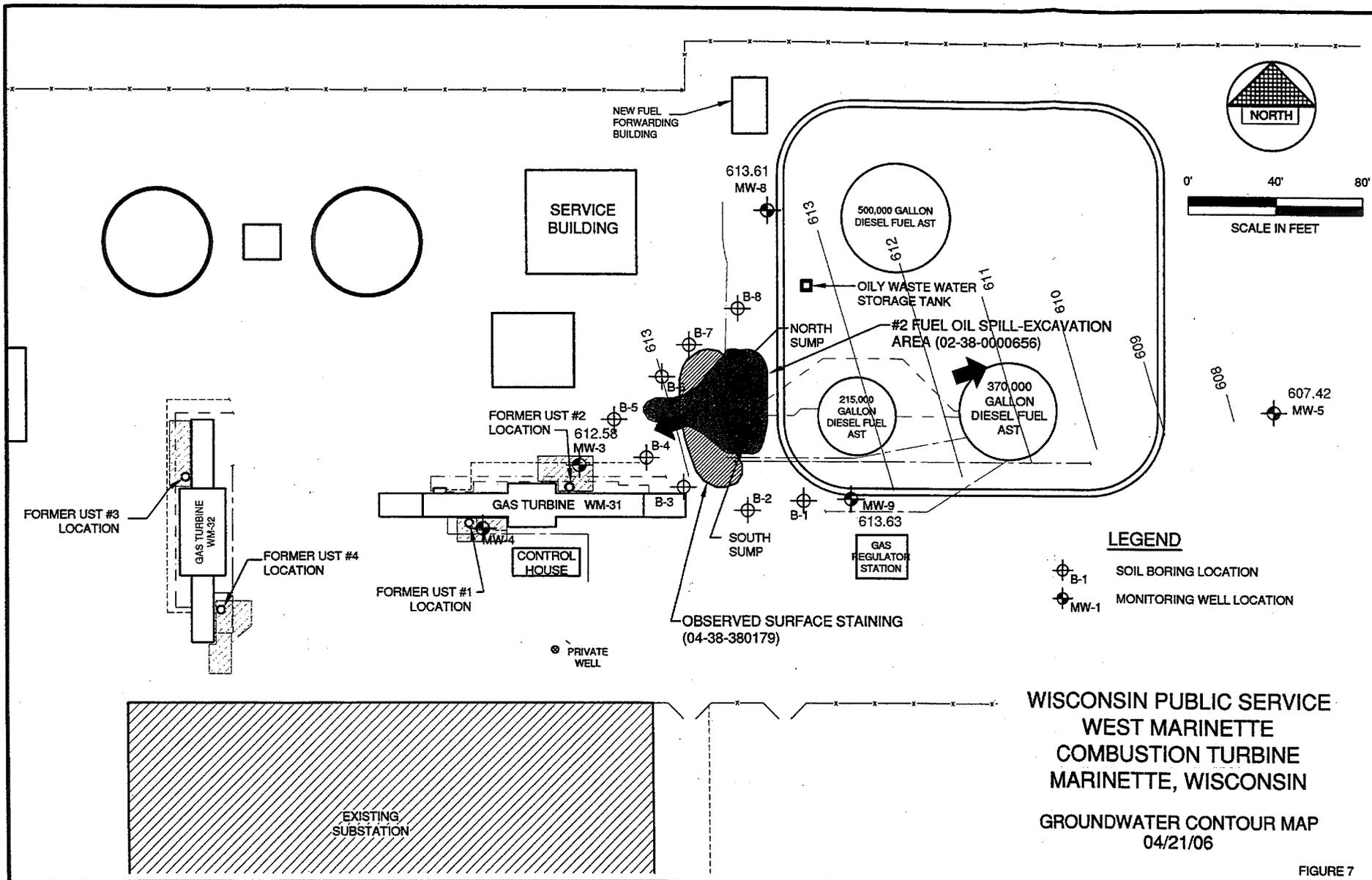
BELOW NR720 SOIL STANDARDS

WISCONSIN PUBLIC SERVICE  
 WEST MARINETTE  
 COMBUSTION TURBINE  
 MARINETTE, WISCONSIN

**GEOLOGIC CROSS SECTION**

FIGURE #4

**NOTE:**  
 GROUND SURFACE ELEVATION AT SOIL BORINGS ASSUMED AT 616 MSL THROUGH INTERPOLATION BETWEEN RECORDED GROUND SURFACE AT MONITORING WELLS MW-3, MW-8 AND MW-9.



WISCONSIN PUBLIC SERVICE  
 WEST MARINETTE  
 COMBUSTION TURBINE  
 MARINETTE, WISCONSIN  
 GROUNDWATER CONTOUR MAP  
 04/21/06

FIGURE 7

File: R:\1100\1134\1134074\dwg\GW\_042106.dwg  
 Plot Date: Feb 16 2007 - 9:51am

**TABLE 1  
FIELD SCREENING ANALYSIS (PPM)**

Boring	Depth (ft)					
	0'-2'	2'-4'	4'-6'	6'-8'	8'-10'	10-13
B1	0	0	0	EOB		
B-2	1.5	14	0	1	EOB	
B-3	2	5	1.5	0	EOB	
B-4	2	27	45	EOB		
B-5	15	13	25	4	EOB	
B-6	60	230	150	5	EOB	
B-7	0	210	510	110	EOB	
B-8	1.5	4	0	EOB		
B-9	90	40	6	7	6	6
B-10	0	225	20	6	4.5	2.5

EOB = End of Boring

**TABLE 2  
SOIL ANALYSIS**

Parameter (mg/kg)	NR 720 Standard	B-1 (2-4') 8/9/96	B-2 (2-4') 8/9/96	B-3 (2-4') 8/9/96	B-4 (4-6') 8/9/96	B-5 (4-6') 8/9/96	B-6 (2-4') 8/9/96	B-7 (4-6') 8/9/96	B-8 (2-4') 8/9/96
DRO	100	<2.0	<2.2	<1.7	<2.1	<1.9	4.5	<1.9	<1.9

= NR 720 soil exceedance

**TABLE 3  
SOIL BORING ANALYSIS FROM MONITORING WELL INSTALLATION**

Parameter ( $\mu\text{g}/\text{kg}$ )	NR 720 Standard	SB-9 (5-7')	SB-10 (5-7')
		8/4/98	8/4/98
<b>PVOC</b>			
Benzene	5.5	<9.0	<9.0
Ethylbenzene	2,900	<4.5	<4.5
Methyl-tert-butyl-ether	—	<22	<22
Toluene	1,500	<4.2	<4.2
1,2,4-Trimethylbenzene	—	<9.9	<9.9
1,3,5-Trimethylbenzene	—	<10	9.4
Total Xylene	4,100	<19	24
<b>PAH</b>			
Pyrene	500,000	33	<16

 = NR 720 Soil Standard Exceedance

TABLE 6—CONTINUED  
GROUNDWATER ANALYSIS

Parameter (µg/L)	NR 140 ES	NR 140 PAL	MW-3									
			1/9/02	7/8/02	10/4/02	1/15/03	7/23/03	10/8/03	1/7/04	1/19/05	10/25/05	4/21/06
<b>PVOC</b>												
Benzene	5	0.5	<0.21	<0.43	0.72	<6.1	<0.45	<0.45	<0.30	0.21	<0.21	<0.21
Ethylbenzene	700	140	<0.2	<0.49	<0.82	<6.3	<0.47	<0.47	<0.60	<0.40	<0.40	<0.40
MTBE	60	12	<0.46	<0.49	<0.43	<6.2	<0.60	<0.68	<0.58	<0.36	<0.36	<0.36
Toluene	1,000	200	<0.41	<0.63	<0.68	<6.4	<0.61	<0.61	<0.58	<0.36	<0.36	<0.36
Trimethylbenzene	480	96	<0.34	0.71	1.6	<6.6	<0.72	1.6	<0.66	<0.40	0.78	0.73
Total Xylene	10,000	1,000	<0.43	<1.5	<1.7	<15	<0.99	<0.99	<1.2	<0.74	<0.74	<0.74
<b>PAH</b>												
Acenaphthene	-	-	3.1	2.7	2.7	5.0	2.2	2.2	0.45	0.95	2.6	0.54
Acenaphthylene	-	-	ND	ND	0.081	<0.082	<0.082	<0.082	0.020	0.036	0.15	0.041
Anthracene	3,000	600	ND	ND	0.17	0.27	<0.026	0.18	0.035	0.10	0.18	0.037
Benzo(a)anthracene			ND	ND	ND	ND	ND	ND	0.023	<0.021	<0.12	<0.031
Benzo(a)pyrene	0.2	0.02	ND	ND	ND	ND	ND	ND	0.030	<0.019	<0.15	<0.037
Benzo(b)fluoranthene	0.2	0.02	ND	ND	ND	ND	ND	ND	0.035	<0.019	<0.13	<0.031
Benzo(ghi)perylene	-	-	ND	ND	ND	ND	ND	ND	0.025	<0.022	<0.15	<0.039
Benzo(k)fluoranthene	-	-	ND	ND	ND	ND	ND	ND	0.026	<0.020	<0.15	<0.039
Chrysene	0.2	0.02	ND	ND	ND	ND	ND	ND	0.035	0.019	<0.15	<0.038
Fluoranthene	400	80	ND	ND	0.092	0.12	0.16	0.11	0.087	0.087	<0.12	<0.031
Fluorene	400	80	<0.24	1.9	1.6	1.8	<0.022	1.1	0.23	0.56	2.0	0.35
Indeno(1,2,3-cd)pyrene	-	-	ND	ND	ND	ND	ND	ND	0.022	<0.018	<0.15	<0.038
1-Methylnaphthalene	-	-	1.1	4.8	4.1	4.3	<0.020	1.1	0.56	0.90	1.9	0.34
2-Methylnaphthalene	-	-	ND	ND	0.087	2.0	<0.037	0.90	0.019	0.076	<0.090	0.029
Naphthalene	40	8	<0.12	0.47	1.8	1.9	<0.013	0.48	0.071	0.49	0.22	0.13
Phenanthrene	-	-	0.48	1.1	1.2	0.55	0.11	0.19	0.061	0.10	0.22	0.024
Pyrene	250	50	ND	ND	0.14	0.11	0.25	0.13	0.088	0.088	0.13	0.033

ND = No Detect

*Italic* = Exceedance of NR 140 Groundwater Quality Preventative Action Limits

**Bold** = Exceedance of NR 140 Groundwater Quality Enforcement Standards

TABLE 7—CONTINUED  
GROUNDWATER ANALYSIS

Parameter (µg/L)	NR 140 ES	NR 140 PAL	MW-5														
			7/24/01	10/05/01	1/9/02	4/12/02	7/8/02	10/4/02	1/15/03	4/9/03	7/23/03	10/8/03	1/7/04	4/13/04	1/19/05	10/25/05	4/21/06
<b>PVOC</b>																	
Benzene	5	0.5	<0.21	<0.19	<0.21	<0.43	<0.43	<0.45	<0.61	<0.45	<0.45	<0.45	<0.30	<0.14	<0.14	<0.21	<0.21
Ethylbenzene	700	140	<0.23	<0.13	<0.22	<0.49	<0.49	<0.82	<0.63	<0.47	<0.47	<0.47	<0.60	<0.40	<0.40	<0.40	<0.40
MTBE	60	12	<0.091	<0.20	<0.46	<0.49	<0.49	<0.43	<0.62	<0.60	<0.60	<0.60	<0.58	<0.36	<0.36	<0.36	<0.36
Toluene	1,000	200	<0.22	<0.11	<0.41	<0.63	<0.63	<0.68	<0.64	<0.61	<0.61	<0.61	<0.58	<0.36	<0.36	<0.36	<0.36
Trimethylbenzene	480	96	<0.23	<0.12	<0.34	<0.72	<0.72	<0.94	<0.66	<0.72	<0.72	<0.72	<0.66	<0.40	<0.40	<0.40	<0.40
Total Xylene	10,000	1,000	<0.44	<0.30	<0.43	<1.5	<1.5	<1.7	<1.5	<0.99	<0.99	<0.99	<1.2	<0.74	<0.74	<0.74	<0.74
<b>PAH</b>																	
Anthracene	3,000	600	<0.020	<0.020	<0.042	<0.024	<0.024	<0.020	<0.026	<0.026	<0.026	<0.026	<0.019	<0.020	<0.019	<0.012	<0.012
Benzo(a)anthracene	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.044	<0.012	<0.021	<0.016	<0.016
Benzo(a)pyrene	0.2	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	<0.014	<0.019	<0.018	<0.018
Benzo(b)fluoranthene	0.2	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.064	<0.013	<0.019	0.018	<0.016
Benzo(ghi)perylene	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.045	<0.016	<0.022	<0.019	<0.019
Benzo(k)fluoranthene	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.047	<0.019	<0.020	<0.019	<0.019
Chrysene	0.2	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.062	<0.014	<0.017	0.027	<0.019
Fluoranthene	400	80	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.14	<0.013	0.018	0.023	0.017
Indeno(1,2,3-cd)pyrene	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.039	<0.021	<0.018	<0.019	<0.019
Naphthalene	40	8	<0.056	<0.056	<0.12	<0.067	<0.067	<0.027	<0.013	<0.013	0.17	<0.028	0.030	<0.024	0.031	0.051	0.040
1-Methylnaphthalene	-	-	ND	ND	ND	ND	ND	ND	ND	ND	0.049	<0.020	<0.017	<0.018	<0.021	0.023	0.029
2-Methylnaphthalene	-	-	ND	ND	ND	ND	ND	ND	ND	ND	0.20	<0.075	0.017	<0.017	<0.024	0.038	0.013
Phenanthrene	-	-	ND	ND	ND	ND	ND	ND	0.052	<0.030	<0.030	<0.030	0.060	<0.016	<0.022	0.013	0.013
Pyrene	250	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.12	<0.017	0.017	0.030	0.018

NA = Not Analyzed  
ND = No Detect

***Italic*** = Exceedance of NR 140 Groundwater Quality Preventative Action Limits

****Bold**** = Exceedance of NR 140 Groundwater Quality Enforcement Standards

**TABLE 8—CONTINUED  
GROUNDWATER ANALYSIS**

Parameter (µg/L)	NR 140 ES	NR 140 PAL	MW-8								
			1/15/03	4/9/03	7/23/03	10/8/03	1/7/04	4/13/04	1/19/05	10/25/05	4/21/06
<b>PVOC</b>											
Benzene	5	0.5	<0.061	<0.45	<0.45	<0.45	<0.30	<0.14	<0.014	<0.21	<0.21
Ethylbenzene	700	140	<0.63	<0.47	<0.47	<0.47	<0.60	<0.40	<0.40	<0.40	<0.40
MTBE	60	12	<0.62	<0.60	<0.60	<0.60	<0.58	<0.36	<0.36	<0.036	<0.36
Toluene	1,000	200	<0.64	<0.61	<0.61	<0.61	<0.58	<0.36	<0.36	<0.36	<0.36
Trimethylbenzene	480	96	<0.66	<0.72	<0.72	<0.72	<0.66	<0.40	<0.40	<0.40	<0.40
Total Xylene	10,000	1,000	<1.5	<0.99	<0.99	<0.99	<1.2	<0.74	<0.74	<0.74	<0.74
<b>PAH</b>											
Acenaphthene	-	-	<0.022	0.10	<0.022	<0.022	<0.017	<0.018	<0.021	<0.0082	<0.0082
Anthracene	3,000	600	<0.026	0.10	<0.026	<0.026	<0.019	<0.020	<0.019	<0.012	<0.012
Fluoranthene	400	80	<0.012	0.14	<0.012	<0.012	<0.012	<0.013	<0.017	<0.015	<0.015
Fluorene	400	80	<0.022	0.18	<0.022	<0.022	<0.016	<0.017	<0.023	<0.0091	<0.0091
1-Methylnaphthalene	-	-	0.076	0.56	0.032	<0.020	<0.017	<0.018	<0.021	0.024	0.017
2-Methylnaphthalene	-	-	0.21	0.99	0.15	<0.037	<0.016	<0.017	0.025	0.027	0.013
Naphthalene	40	8	0.036	0.45	0.054	<0.013	<0.023	<0.024	<0.024	0.038	0.021
Phenanthrene	-	-	<0.030	0.23	<0.030	<0.030	<0.015	<0.016	<0.022	<0.011	<0.011
Pyrene	250	50	<0.013	0.10	<0.013	<0.013	<0.016	<0.017	<0.017	<0.015	<0.015

NA = Not Analyzed

ND = No Detect

***Italic*** = Exceedance of NR 140 Groundwater Quality Preventative Action Limits

****Bold**** = Exceedance of NR 140 Groundwater Quality Enforcement Standards

TABLE 9—CONTINUED  
GROUNDWATER ANALYSIS

Parameter (µg/L)	NR 140 ES	NR 140 PAL	MW-9								
			1/15/03	4/9/03	7/23/03	10/8/03	1/7/04	4/13/04	1/19/05	10/25/05	4/21/06
<b>PVOC</b>											
Benzene	5	0.5	<0.61	<0.45	<0.45	<0.45	<0.30	<0.14	<0.14	<0.21	<0.21
Ethylbenzene	700	140	<0.63	<0.47	<0.47	<0.47	<0.60	<0.40	<0.40	<0.40	<0.40
MTBE	60	12	<0.62	<0.60	<0.60	<0.60	<0.58	<0.36	<0.36	<0.36	<0.36
Toluene	1,000	200	<0.64	<0.61	<0.61	<0.61	<0.58	<0.36	<0.36	<0.36	<0.36
Trimethylbenzene	480	96	<0.66	<0.72	<0.72	<0.72	<0.66	<0.40	<0.40	<0.40	<0.40
Total Xylene	10,000	1,000	<1.5	<0.99	<0.99	<0.99	<1.2	<0.40	<0.36	<0.74	<0.74
<b>PAH</b>											
Anthracene	3,000	600	<0.019	<0.026	<0.026	<0.022	<0.019	<0.19	<0.020	<0.12	<0.012
1-Methylnaphthalene	-	-	<0.020	<0.020	0.034	<0.020	<0.017	00.51	0.021	0.034	<0.010
2-Methylnaphthalene	-	-	<0.037	<0.037	0.15	0.077	<0.016	0.054	0.029	0.046	<0.011
Benzo(a)anthracene	-	-	ND	ND	ND	ND	0.017	<0.021	<0.012	<0.016	<0.016
Benzo(a)pyrene	0.2	0.02	ND	ND	ND	ND	0.018	<0.019	<0.014	<0.018	<0.018
Benzo(b)fluoranthene	0.2	0.02	ND	ND	ND	ND	0.020	<0.019	<0.013	<0.16	<0.016
Chrysene	0.2	0.02	ND	ND	ND	ND	0.020	<0.017	<0.014	<0.019	<0.019
Fluoranthene	400	80	ND	ND	ND	ND	0.043	<0.017	<0.013	<0.015	<0.015
Fluorene	400	80	ND	ND	ND	ND	ND	ND	ND	0.037	<0.0091
Naphthalene	40	8	<0.013	<0.013	<0.013	0.020	<0.023	0.088	0.031	0.058	0.015
Phenanthrene	-	-	0.055	<0.030	<0.030	<0.030	0.017	<0.022	<0.016	<0.011	<0.011
Pyrene	250	50	ND	ND	ND	ND	0.035	<0.017	<0.017	<0.015	<0.015

NA = Not Analyzed

ND = No Detect

*Italic* = Exceedance of NR 140 Groundwater Quality Preventative Action Limits

**Bold** = Exceedance of NR 140 Groundwater Quality Enforcement Standards

TABLE 10  
SUMP SAMPLING ANALYSIS

Parameter (µg/L)	NR 140 ES	NR 140 PAL	South Sump					North Sump				
			9/1/98	4/13/04	1/19/05	10/25/05	4/21/06	9/1/98	4/13/04	1/19/05	10/25/05	4/21/06
<b>PVOC</b>												
Benzene	5	0.5	3.7	0.90	0.95	0.72	0.76	2.0	1.3	0.67	0.44	1.2
Ethylbenzene	700	140	14	4.1	5.2	4.7	5.9	3.1	4.9	6.2	5.1	6.4
MTBE	60	12	<4.6	<0.36	<0.36	<0.36	<0.36	<0.92	<0.36	<0.36	<0.36	<0.36
Toluene	1,000	200	<3.0	1.7	2.4	0.77	<0.36	1.2	2.5	2.1	<0.36	0.50
Trimethylbenzene	480	96	130	118	115	68	95	30.5	91	109	93	88
Total Xylene	10,000	1,000	45	87	78	53	27	10.5	70	74	54	47
<b>PAH</b>												
Acenaphthene	-	-	<1.4	<0.018	13	7.9	3.5	<14	<0.018	<33	23	3.3
Acenaphthylene	-	-	<1.3	<0.019	5.4	<3.2	<0.81	<13	<0.019	3.7	9.8	<0.81
Anthracene	3,000	600	<0.10	<0.020	3.9	<4.6	<1.2	<1.0	<0.020	<30	<12	1.6
Benzo(a)anthracene	-	-	<0.10	<0.012	0.60	<6.2	<1.6	<1.0	<0.012	1.2	<16	<1.6
Benzo(a)pyrene	0.2	0.02	<0.21	<0.014	0.47	<7.3	<1.8	<2.1	<0.014	0.82	<18	<1.8
Benzo(b)fluoranthene	0.2	0.02	<0.12	<0.013	0.43	<6.3	<1.6	<1.2	<0.013	0.79	<16	<1.6
Benzo(ghi)perylene	-	-	<0.22	<0.016	<0.44	<7.7	<1.9	<2.3	<0.016	<0.44	<19	<1.9
Benzo(k)fluoranthene	-	-	<0.22	<0.019	<0.41	<7.7	<1.9	<2.3	<0.019	0.45	<19	<1.9
Chrysene	0.2	0.02	<0.091	<0.014	0.61	<7.6	<1.9	<0.92	<0.014	1.4	<19	<1.9
Fluoranthene	400	80	<0.22	<0.013	1.7	<6.2	<1.5	<2.3	<0.013	4.7	<15	<1.5
Fluorene	400	80	22	<0.017	27	17	6.2	841	<0.017	64	57	6.6
Indeno(1,2,3-cd)pyrene	-	-	<0.11	<0.021	<0.36	<7.5	<1.9	<1.1	<0.021	<0.36	<19	<1.9
Naphthalene	40	8	24	0.098	56	18	29	150	0.097	79	84	18
1-Methylnaphthalene	-	-	118	0.18	180	130	60	2,640	0.19	340	340	49
2-Methylnaphthalene	-	-	235	0.20	200	43	12	5,570	0.20	300	280	40
Phenanthrene	-	-	26	<0.016	24	17	6.0	1,190	<0.016	55	57	7.3
Pyrene	250	50	<0.38	<0.017	6.7	<5.8	<1.5	<3.9	<0.017	<28	<15	2.7

NA = Not Analyzed

ND = No Detect

*Italic* Groundwater Quality Preventative Action Limits

**Bold** Groundwater Quality Enforcement Standards

**TABLE 4  
GROUNDWATER ELEVATIONS**

Well ID	PVC Elevation	Bottom Depth	Screen Length	9/1/98		1/5/99		7/21/99		11/22/99		1/10/00	
				Water Depth	Water Elevation								
MW-3	619.87	17.60	10'	7.19	612.68	6.76	613.11	4.05	615.82	7.98	611.89	8.13	611.74
MW-5	617.04	19.25	10'	7.49	609.55	5.32	611.72	3.70	613.34	7.00	610.04	9.15	607.89
MW-8	615.71	12.58	10'	4.15	611.56	2.77	612.94	1.58	614.13	3.95	611.76	-	-
MW-9	616.44	12.55	10'	-	-	3.57	612.87	1.58	614.86	4.92	611.52	4.80	611.64

Well ID	PVC Elevation	Bottom Depth	Screen Length	7/24/00		10/23/00		1/9/01		4/11/01	
				Water Depth	Water Elevation						
MW-3	619.87	17.60	10'	5.70	614.17	6.40	613.47	6.53	613.34	3.05	616.82
MW-5	617.04	19.25	10'	8.18	608.86	8.56	608.48	8.52	608.52	4.10	612.94
MW-8	615.71	12.58	10'	2.15	613.56	2.20	613.51	2.28	613.43	0.20	615.51
MW-9	616.44	12.55	10'	2.66	611.64	3.58	612.86	3.00	613.44	0.85	615.59

Well ID	PVC Elevation	Bottom Depth	Screen Length	7/24/01*		10/5/01		1/9/02		4/12/02		7/8/02	
				Water Depth	Water Elevation								
MW-3	619.43	17.60	10'	6.92	612.51	5.80	613.63	6.66	612.77	-	-	5.79	613.64
MW-5	617.04	19.25	10'	11.57	605.47	9.04	608.00	8.27	608.77	6.44	610.60	8.58	608.46
MW-8	615.19	12.58	10'	3.97	611.22	2.43	612.76	2.50	612.69	0.65	614.54	1.45	613.74
MW-9	615.96	12.55	10'	4.37	611.59	3.95	612.01	3.30	612.66	1.03	614.93	2.52	613.44

Well ID	PVC Elevation	Bottom Depth	Screen Length	10/4/02		1/15/03		4/9/03		7/23/03	
				Water Depth	Water Elevation						
MW-3	619.43	17.60	10'	4.82	614.61	7.89	611.54	3.25	616.18	4.92	614.51
MW-5	615.89	19.25	10'	4.48	612.56	9.80	607.24	6.72	610.32	7.30	609.74
MW-8	615.19	12.58	10'	1.10	614.09	3.54	611.65	0.10	615.09	0.85	614.34
MW-9	615.96	12.55	10'	-	-	4.68	611.28	1.45	614.51	1.81	614.15

Well ID	PVC Elevation	Bottom Depth	Screen Length	10/8/03*		1/7/04		4/13/04		1/19/05		10/25/05		4/21/06	
				Water Depth	Water Elevation										
MW-3	619.43	17.60	10'	5.69	613.74	5.95	613.48	3.39	616.04	7.03	612.40	6.99	612.44	6.85	612.58
MW-5*	615.89	19.25	10'	6.70	609.19	7.15	608.74	5.73	610.16	8.23	607.66	8.51	607.38	8.47	607.42
MW-8	615.19	12.58	10'	1.92	613.27	1.92	613.27	0.95	614.24	2.75	612.44	5.78	612.41	1.58	613.61
MW-9	615.96	12.55	10'	2.98	612.98	1.80	614.16	1.79	614.17	3.77	612.19	3.81	612.15	2.33	613.63

\*Re-Shot PVC Elevation