

Source Property Information

CLOSURE DATE: 04/22/2010

BRRTS #: 03-04-186342
ACTIVITY NAME: WASHBURN MARINA
PROPERTY ADDRESS: 1 MARINA DR
MUNICIPALITY: WASHBURN
PARCEL ID #: 04-291-2-48-04-05-1 05-001-11000

FID #: 804052920

DATCP #: NA

PECFA#: 54891114725

***WTM COORDINATES:**

X: 452131 Y: 688683

** 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)

CONTINUING OBLIGATIONS

Contaminated Media for Residual Contamination:

Groundwater Contamination > ES (236)

Contamination in ROW

Off-Source Contamination

*(note: for list of off-source properties
see "Impacted Off-Source Property Information,
Form 4400-246")*

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

Contamination in ROW

Off-Source Contamination

*(note: for list of off-source properties
see "Impacted Off-Source Property Information,
Form 4400-246")*

Site Specific Obligations:

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)

Direct Contact

Soil to GW Pathway

Vapor Mitigation (226)

Maintain Liability Exemption (230)

*(note: local government unit or economic
development corporation was directed to
take a response action)*

Monitoring Wells:

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

Yes No N/A

** Residual Contaminant Level*

***Site Specific Residual Contaminant Level*



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Scott Walker, Governor
Cathy Stepp, Secretary

Ashland Service Center
2501 Golf Course Road
Ashland, Wisconsin 54806
Telephone 715-685-2900
FAX 715-685-2909

January 24, 2014

MR SCOTT KLUVER
CITY ADMINISTRATOR
CITY OF WASHBURN
119 WASHINGTON AVE
WASHBURN WI 54891

Subject: Reported Contamination at the Washburn Marina, 1 Marina Drive, Washburn, Wisconsin
Reopening of Closed Case
DNR BRRTS # 03-04-186342

Dear Mr. Kluver:

On April 22, 2010, the Department of Commerce issued a case closure letter for the above referenced site. Based on information reported to the Department of Natural Resources ("the DNR") on January 12, 2014, the DNR has determined that the site warrants reopening due to removal of a portion of the structural impediment (concrete cover) during construction activities at the site in November 2013. As stated in the *Pavement Cover Maintenance Plan* submitted as part of your original case closure request, removal of the concrete cover is prohibited without prior written approval from the Department of Commerce. [Note: the technical and financial oversight functions formerly performed by the Department of Commerce were transferred to the DNR as part of the state's 2013-2015 biennial budget.] Also, additional contamination was encountered outside of the previous area of investigation during the aforementioned construction activities, and some contaminated soil was excavated and stockpiled on site.

As the entity that caused this hazardous substance discharge, the City of Washburn is responsible for restoring the environment at the above-described site under section 292.11, Wisconsin Statutes, known as the hazardous substances spills law.

This letter describes the legal responsibilities of a person who is responsible under s. 292.11, Wis. Stats., explains what you need to do, and provides you with information about cleanups, environmental consultants, possible financial assistance, and working cooperatively with the DNR.

Legal Responsibilities:

Your legal responsibilities are defined both in statute and in administrative codes. The hazardous substances spill law, s. 292.11 (3) Wis. Stats., states:

- **RESPONSIBILITY.** A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state.

Wisconsin Administrative Code chapters NR 700 through NR 754 establish requirements for emergency and interim actions, public information, site investigations, design and operation of remedial action systems, and case closure. Chapter NR 708 includes provisions for immediate actions in response to limited contamination. Chapter NR 140, Wis. Adm. Code establishes groundwater standards for contaminants that reach groundwater.

Steps to Take:

The longer contamination is left in the environment, the farther it can spread and the more it may cost to clean up. Quick action may lessen damage to your property and neighboring properties and reduce your costs in investigating and cleaning up the contamination. To ensure that your cleanup complies with Wisconsin's laws and administrative codes, you should hire a professional environmental consultant who understands what needs to be done. The following information provides the timeframes and required steps to take. Unless otherwise approved by DNR in writing you must complete the work by the timeframes specified.

1. Within the next **30 days**, by February 23, 2014, you should submit written verification (such as a letter from the consultant) that you have hired an environmental consultant. If you do not take action within this time frame, the DNR may initiate enforcement action against you.
2. Within **60 days**, by March 25, 2014, you must submit a work plan for completing the investigation. The work plan must comply with the requirements in the NR 700 rule series and should refer to DNR technical guidance documents. Based on the information submitted with the hazardous substance release notification earlier this month, there might not be much, if any, additional investigation needed to return this case to a closed status. Your consultant should work with me to fill in any data gaps between existing and new information necessary to close the case. To facilitate prompt agency review of your reports, your consultant should use the site investigation and closure formats which are available on-line at <http://dnr.wi.gov/topic/Brownfields/Professionals.html>.
3. You must initiate the site investigation within 90 days of submitting the site investigation work plan. If a fee for DNR review has been submitted, the site investigation must begin within 60 days after receiving DNR comments. As indicated in the previous step, there might be only a minimal amount of additional investigation needed to complete this step.
4. Within 60 days after completion of the field investigation and receipt of the laboratory data, you or your consultant must submit a site investigation report to DNR. It is possible that case closure could be approved after this point, once the appropriate fees have been paid and the closure and GIS Registry information has been updated. Closure will also be contingent upon proper treatment or disposal of the stockpiled contaminated soil.
5. Within 60 days after submitting the Site Investigation Report, you must submit a remedial actions options report, if deemed warranted by the DNR.

Sites where discharges to the environment have been reported are entered into the Bureau for Remediation and Redevelopment Tracking System ("BRRTS"), a version of which appears on the DNR's internet site (BRRTS on the Web). You may view the information related to your site at any time (<http://dnr.wi.gov/topic/Brownfields/clean.html>) and use the feedback system to alert us to any errors in the data.

If you want a formal response from the agency on a specific submittal, please be aware that a review fee is required in accordance with ch. NR 749, Wis. Adm. Code. If a fee is not submitted with your reports, you must complete the necessary work to maintain your compliance with the spills law and chapters NR 700 through NR754. **The timeframes specified above are required by rule, so do not delay the investigation of your site.** We have provided detailed technical guidance to environmental consultants. Your consultant is expected to know our technical procedures and administrative rules and should be able to answer your questions on meeting cleanup requirements.

All correspondence regarding this site should be sent to me at the address listed in the letterhead above. Unless otherwise directed, submit one paper copy and one electronic copy of plans and reports. To speed processing, correspondence should reference the BRRTS number shown at the top of this letter.

Additional Information for Site Owners:

Information to help you select a consultant, and materials on controlling costs, understanding the cleanup process, and choosing a site cleanup method are available on our website at <http://dnr.wi.gov/topic/Brownfields/Private.html>.

Financial Assistance:

Reimbursement from the Petroleum Environmental Cleanup Fund (PECFA) may be available for some of the costs of cleaning up contamination from eligible petroleum storage tanks. For more information on the PECFA program, please see <http://dnr.wi.gov/topic/brownfields/pecfa.html>.

If you have any questions concerning this letter or the project in general, please do not hesitate to write or call me at 715-685-2920. I can also be reached by e-mail at Christopher.Saari@Wisconsin.gov.

Thank you for your cooperation.

Sincerely,



Christopher A. Saari
Hydrogeologist

cc: Mike Kohn – ICECOR
Greer Lundquist – DNR Rhinelander

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 #: 03-04-186342 PARCEL ID #: 04-291-2-48-04-05-1 05-001-11000

ACTIVITY NAME: WASHBURN MARINA WTM COORDINATES: X: 452131 Y: 688683

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 #: 000370 Title: Certified Survey Map
- 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: Site Vicinity 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 #: 4 Title: Area of Excavation and Residual Soil Contamination

BRRTS #: 03-04-186342

ACTIVITY NAME: WASHBURN MARINA

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 #: 4 **Title: Cross Section A - A'**

Figure #: **Title:**

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

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

Figure #: 5a & 5b **Title: GW Contours 7/23/09 & 10/14/09 & Estimated Extent of GW Contamination (Benzene)**

- 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 #: 5a **Title: GW Contours 7/23/09 & Estimated Extent of GW Contamination (Benzene)**

Figure #: 5b **Title: GW Contours 10/14/09 & Estimated Extent of GW Contamination (Benzene)**

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 - 1c **Title: Soil Analytical Results**

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

Table #: 2a-2e **Title: Groundwater Analytical Results**

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

Table #: 3 **Title: Groundwater Level Data**

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 #: 03-04-186342

ACTIVITY NAME: WASHBURN MARINA

NOTIFICATIONS

Source Property

- NA **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.

- NA **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.
- NA **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:

ReOpened on 01/24/2014

ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
P.O. Box 8044
Madison, Wisconsin 53708-8044
TTY: Contact Through Relay
Fax: (608) 267-1381
Jim Doyle, Governor
Aaron Oliver, Secretary



April 22, 2010

Scott Kluver
City Of Washburn
119 Washington Ave
PO Box 638
Washburn, WI 54891

RE: **Final Closure**

Commerce # 54891-1147-25-A DNR BRRTS # 03-04-186342
Washburn Marina, 1 Marina Dr, Washburn

Dear Mr. Kluver:

The Wisconsin Department of Commerce (Commerce) has received from your consultant, REI Engineering (REI), all the items required for closure as discussed in my April 9, 2010 request for additional information correspondence. We have also received the monitoring well abandonment forms.

This site is now listed as "closed" on the Commerce database and will be included on the Department of Natural Resources (DNR) Geographic Information System (GIS) Registry of Closed Remediation Sites to address the residual soil and groundwater contamination. To review all sites on the GIS Registry web page, visit <http://dnr.wi.gov/org/aw/rr/gis/index.htm>. If you intend to construct or reconstruct a potable well on this property, you must get prior DNR approval. In addition to GIS, a Pavement Maintenance Plan was required to address the direct contact risk associated with soils sampled in the area of GP-7. The maintenance plan is included in the GIS Packet and represents a continuing obligation beyond closure.

All current and future owners and occupants of the property need to be aware that excavation of contaminated soil may pose a hazard. Special precautions may be needed to prevent inhalation, ingestion or dermal contact with the residual contamination when it is removed. If soil is excavated, the property owner at the time of excavation must have the soil sampled and analyzed to determine if residual contamination remains. If sampling confirms that contamination is present, the property owner at the time of excavation must determine whether the material would be considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable State and federal regulations.

Depending on site-specific conditions, construction over contaminated materials may result in vapor migration into enclosed structures or along newly placed underground utility lines. The potential for vapor inhalation and mitigation should be evaluated when planning any future redevelopment, and measures should be taken to ensure the continued protection of public health, safety, welfare and the environment at the site.

Costs for sampling and excavation activities conducted after case closure are not eligible for PECFA reimbursement. However, if it is determined that any undisturbed remaining petroleum contamination poses a threat, the case may be reopened and further investigation or remediation may be required. If this case is reopened, any original claim under the PECFA fund would also reopen and you may apply for assistance to the extent of remaining eligibility. It is in your best interest to keep all documentation related to environmental activities at your site.

Timely filing of your final PECFA claim is encouraged. If your claim is not received within 120 days of the date of this letter, interest costs incurred after 60 days from the date of this letter will not be eligible for PECFA reimbursement.

Thank you for your efforts to bring this case to closure. If you have any questions, please contact me in writing at the letterhead address or by telephone at (608) 264-8766.

Sincerely,

A handwritten signature in black ink, appearing to read 'D Swimm', with a long horizontal flourish extending to the right.

David Swimm, PG
Advanced Hydrogeologist
Site Review Section

cc: Andrew Delforge, REI

PAVEMENT COVER MAINTENANCE PLAN

Washburn Marina
1 Marina Drive
Washburn, WI
BRRTS #03-04-186342
COMM#: 54891-1147-25
REI Project #4339x

INTRODUCTION

This document is the Maintenance Plan on the above-referenced property in accordance with the requirements of s. NR 724.13(2), Wisconsin Administrative Code. The maintenance activities relate to the surfaces overlying soil contamination in excess of NR 746 Table 2 (Direct Contact Risk) on the property.

COVER AND BULDING BARRIER PURPOSE

The surfaces over the contaminated soil (specifically GP7) serve as a barrier to prevent direct human contact with residual soil contamination that might otherwise pose a threat to human health. Based on the current and future use of the property, the barrier should function as intended unless disturbed.

The following activities are prohibited in the area of GP7 as shown on the attached map unless prior written approval has been obtained from the Wisconsin Department of Commerce:

- 1) Removal of the surface
- 2) Excavating or grading of the land surface
- 3) Plowing for agricultural cultivation
- 4) Construction or placement of a building or other structure

ANNUAL INSPECTION

The surface overlying the contaminated soil at GP7 as depicted in Exhibit A (Figure 4) will be inspected once a year, normally in the spring after all snow and ice is gone, to evaluate exposure of underlying soils due to settling, exposure to the weather, increasing age and other factors. Any area where the 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 C, 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 Commerce (COMM) upon request.

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 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.

The property owner, in order to maintain the integrity of the overlying surface will maintain a copy of this Maintenance Plan at the property or on-site and make it available to all interested parties (i.e. on-site or on-property 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 COMM.

March 12, 2010

Property Owner:

City of Washburn
119 Washington Street
P.O. Box 638
Washburn, WI 54891

Consultant:

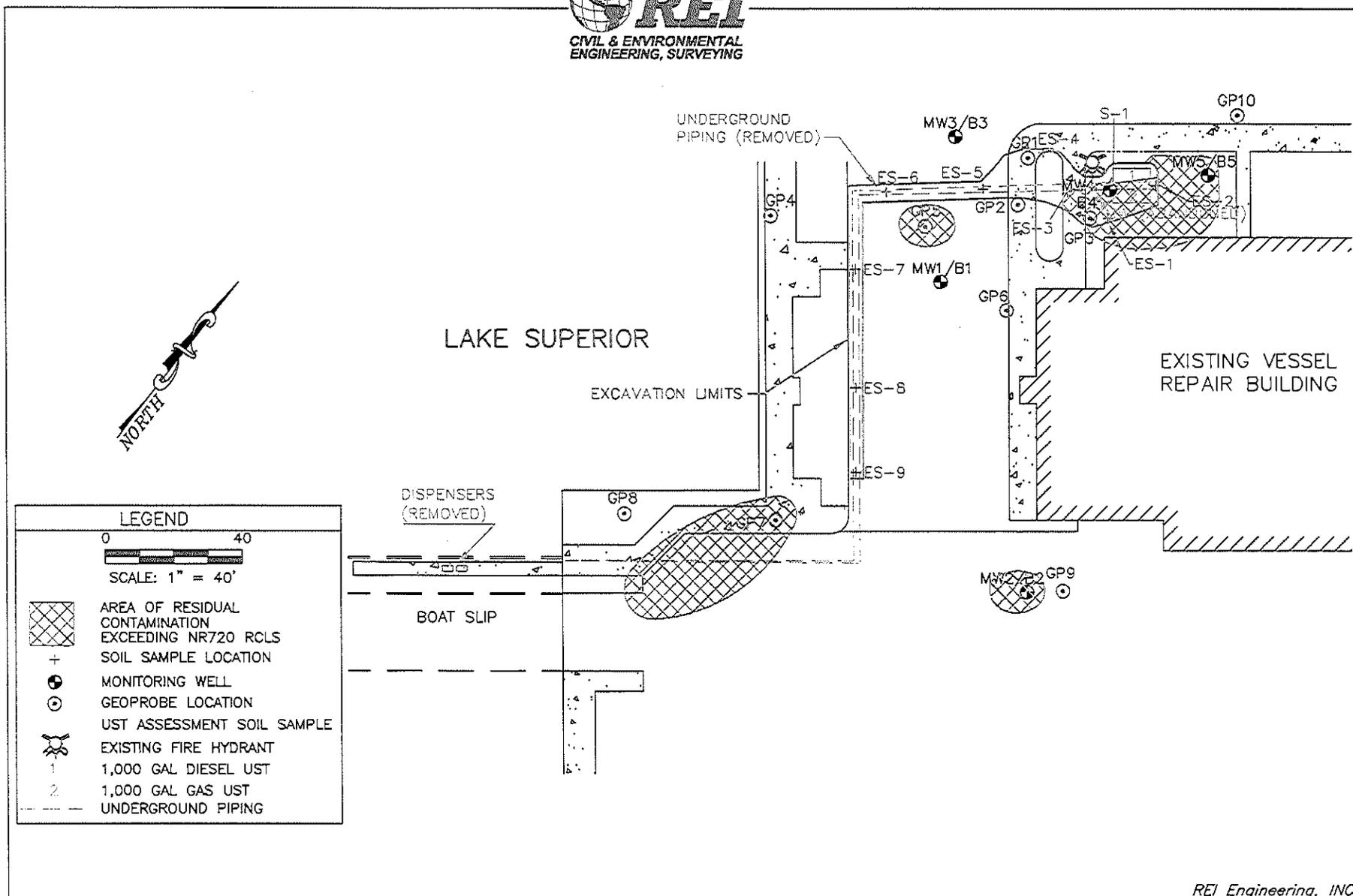
REI Engineering, Inc.
4080 North 20th Avenue
Wausau, WI 54401
(715) 675-9784

COMM:

David Swimm
Wisconsin Department of Commerce
P.O. Box 8044
Madison, WI 54708-8044
(608) 264-8766

EXHIBIT A

Site Map-Residual Soil Contamination



REI Engineering, INC.

WASHBURN MARINA 1 MARINA DRIVE WASHBURN, WISCONSIN	FIGURE 4 : AREA OF EXCAVATION & RESIDUAL SOIL CONTAMINATION		
	PROJECT NO. 4339	DRAWN BY: MAH	DATE: 3/16/10

EXHIBIT B

**PAVEMENT COVER AND STRUCTURAL IMPEDIMENT/
IMPERVIOUS BARRIER INSPECTION LOG**

Inspection Date	Inspector	Condition of Cap	Recommendations	Have Recommendations from previous inspection been implemented?

BAYFIELD COUNTY CERTIFIED SURVEY MAP NO. 000370
 LOCATED IN GOV'T. LOTS 1 AND 2 OF SECTION 5, T.48N., R.4 W., IN THE CITY OF WASHBURN, WIS.

345569

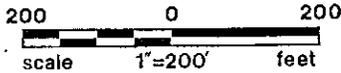
REGISTER'S OFFICE } S.S.
 Bayfield County, Wis.
 RECORDED AT 8:50 A.M.
 ON NOV 9 1982 IN
 Vol. 3 of CSM Pages 243-245

Otto Korpela
 REGISTER OF DEEDS

LEGEND

- 1-1/4" IRDN PIPE FOUND
- 1-1/4" X 30" IRON PIPE, WEIGHING 1.68 LBS./LIN. FT., SET

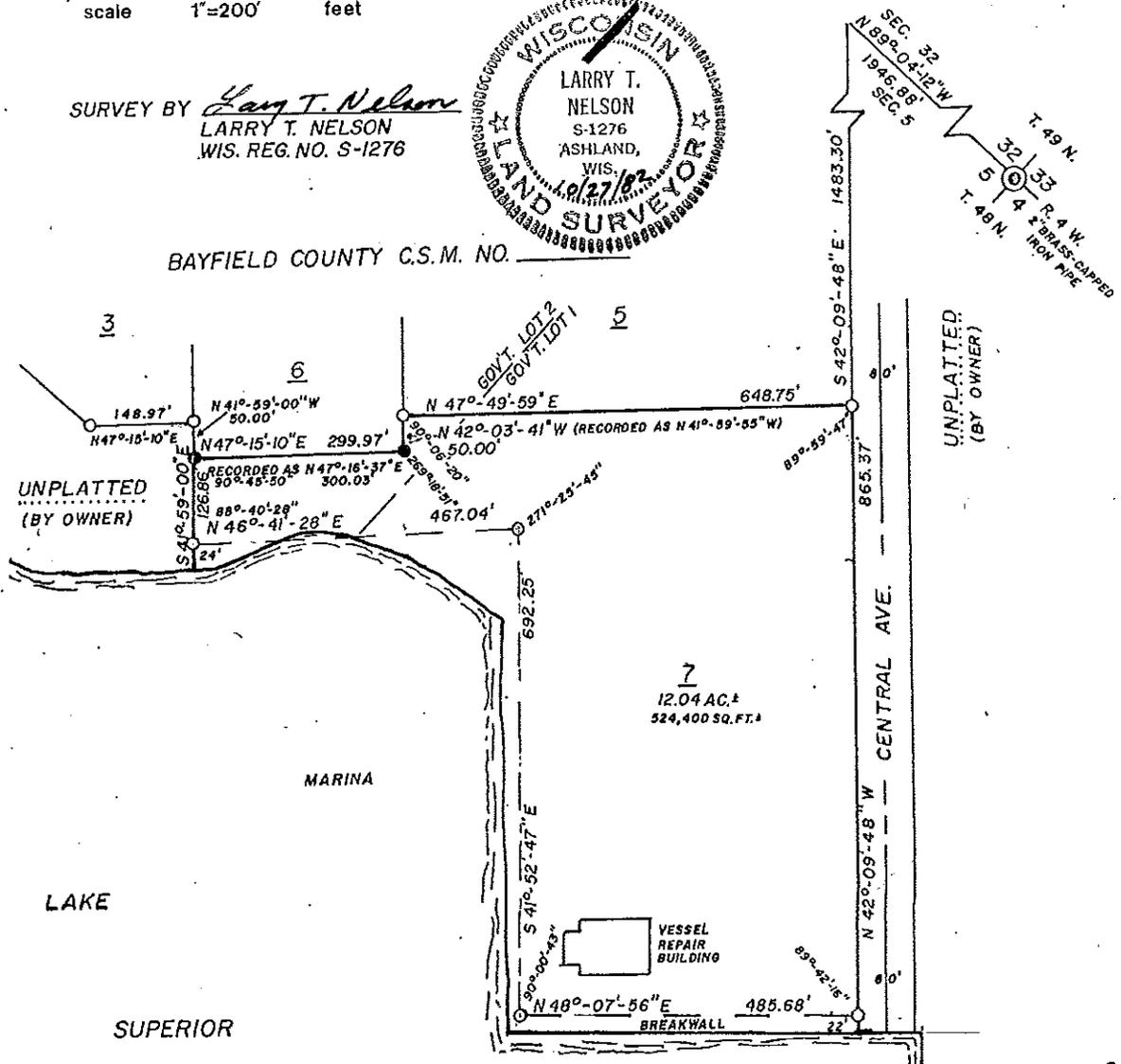
OCTOBER 18, 1982
 DRAWN BY T.OXSIUTA



SURVEY BY *Larry T. Nelson*
 LARRY T. NELSON
 WIS. REG. NO. S-1276



BAYFIELD COUNTY C.S.M. NO. _____



NELSON SURVEYORS
 ROUTE 1, BOX 95
 SANBORN AVENUE
 ASHLAND, WIS. 54806
 PH. 716-682-2692

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BAYFIELD COUNTY CERTIFIED SURVEY MAP NO. 000370

Located in Gov't. Lots 1 and 2 of Section 5,
T. 48 N., R. 4 W., in the City of Washburn, Wis.

SURVEYOR'S CERTIFICATE

I, Larry T. Nelson, registered land surveyor, hereby certify:

That on the order of JAMES MATTSON, Mayor of the City of Washburn, Wis.; I have surveyed, divided, and mapped the following described property located in Gov't. Lots 1 and 2, Section 5, T. 48 N., R. 4 W., in the City of Washburn, Wisconsin.

To locate the Point of Beginning, commence at the NE corner of said Section 5 and run N 89°-04'-12" W, 1946.88 feet along the north line of said Section 5 to the westerly R/W line of Central Avenue. Thence S 42°-09'-48" E, 1483.30 feet along said westerly R/W line to the Point of Beginning.

Thence from said Point of Beginning by metes and bounds:

Leaving said westerly R/W line, S 47°-49'-59" W, 648.75 feet;

Thence S 42°-03'-41" E, 50.00 feet;

Thence S 47°-15'-10" W, 299.97 feet;

Thence S 41°-59'-00" E, 126.86 feet to a meander line near the water's edge of Lake Superior;

Thence along said meander line, N 46°-41'-28" E, 467.04 feet;

Thence S 41°-52'-47" E, 692.25 feet;

Thence N 48°-07'-56" E, 485.68 feet to the westerly R/W line of Central Avenue;

Thence leaving said meander line, N 42°-09'-48" W, 865.37 feet along said westerly R/W line to the Point of Beginning.

Intending to include that land lying between the meander line and the water's edge of Lake Superior and the east and west property lines extended to said water's edge.

Parcel contains 12.04 acres, more or less.

That this Certified Survey Map is a correct representation of all the exterior boundaries of the land surveyed and the subdivision thereof.

That I have fully complied with the provisions of s. 236.34 of the Wisconsin Statutes.

Larry T. Nelson
Larry T. Nelson
Wis. Reg. No. S - 1276

Dated this 27th day of Oct, 1982



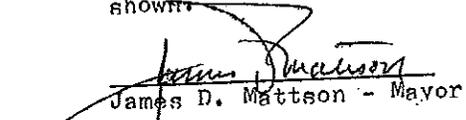
448

BAYFIELD COUNTY CERTIFIED SURVEY MAP NO. 000370

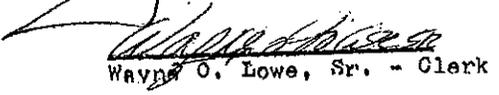
Located in Gov't. Lots 1 and 2 of Section 5
T. 48 N., R. 4 W., in the City of Washburn, Wis.

OWNER'S CERTIFICATE

I, JAMES D. MATTSON, Mayor of the City of Washburn, hereby
certify that I have caused the land described on this Cer-
tified Survey Map to be surveyed, divided and mapped as
shown:


James D. Mattson - Mayor

Dated this 2 day of Nov, 1982.


Wayne O. Lowe, Sr. - Clerk

Dated this 2 day of Nov, 1982.

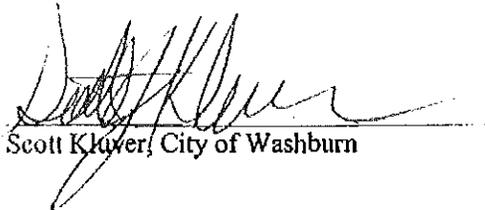
245

March 16, 2010

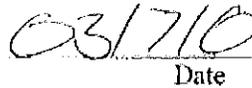
Subject: Washburn Marina
1 Marina Drive
Washburn, WI
BRRTS #03-04-186342
COMM#: 54891-1147-25

**Lot 7 of Certified Survey Map 000370, Located in Government Lots 1 and 2 of Section 5,
Township 48 North, Range 4 West in the City of Washburn, Bayfield County, WI.**

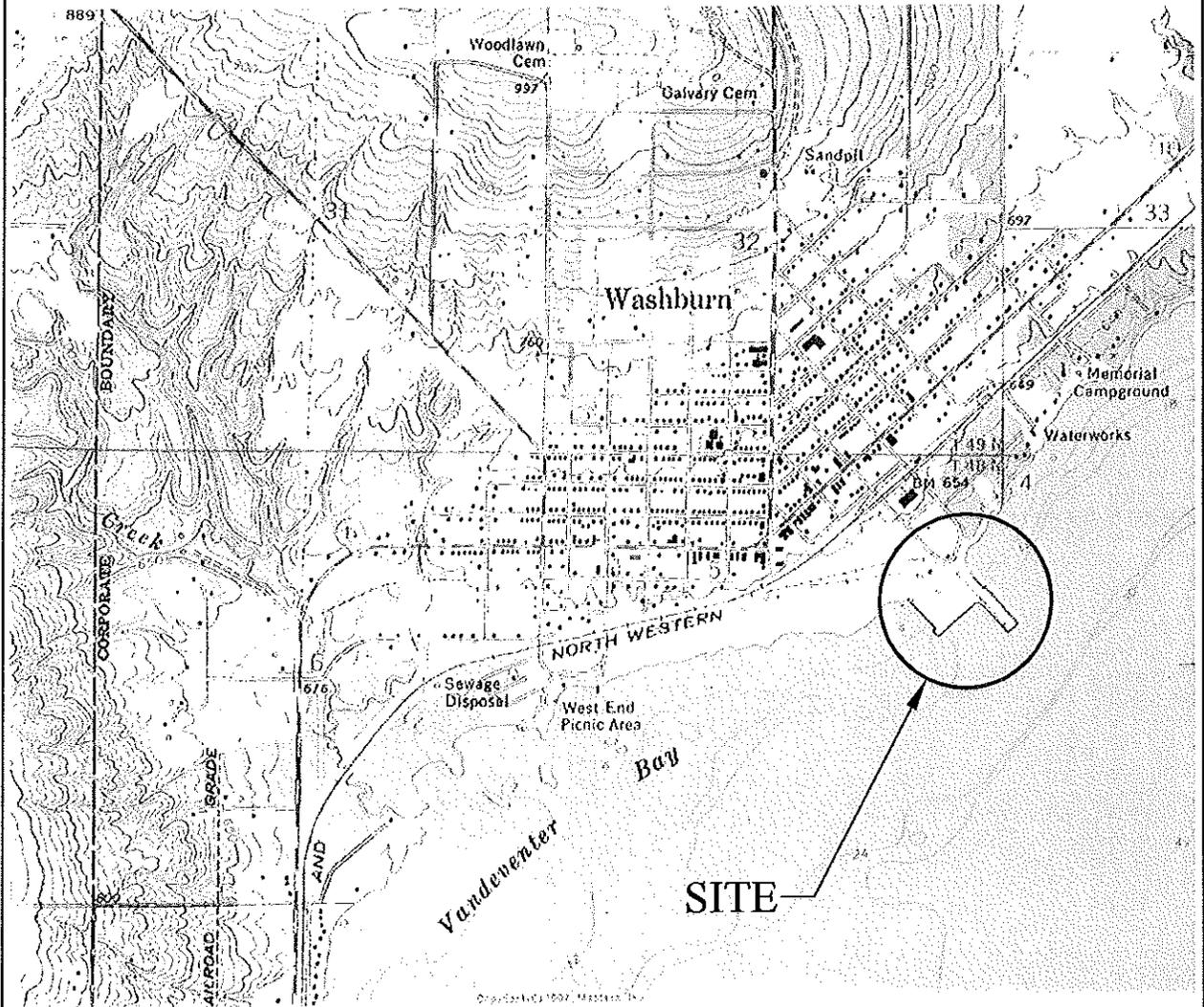
I have reviewed the legal description and certify that it is correct for the Washburn Marina site



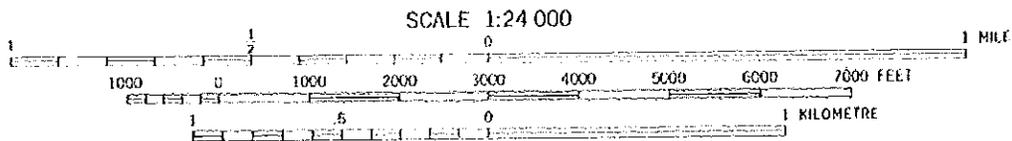
Scott Kluver, City of Washburn



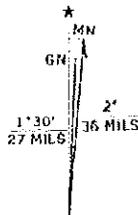
Date



DRAWING FILE: J:\DRAFTING\4339-WASHBURN MARINA.DWG\4339VICN.DWG LAYOUT: MODEL PLOTTED: MAR 17, 2010 - 3:26PM PLOTTED BY: MIRGH



CONTOUR INTERVAL 10 FEET
 NATIONAL GEODETIC VERTICAL DATUM OF 1929
 DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS LOW WATER 601.6 FEET



UTM GRID AND 1975 MAGNETIC NORTH
 DECLINATION AT CENTER OF SHEET

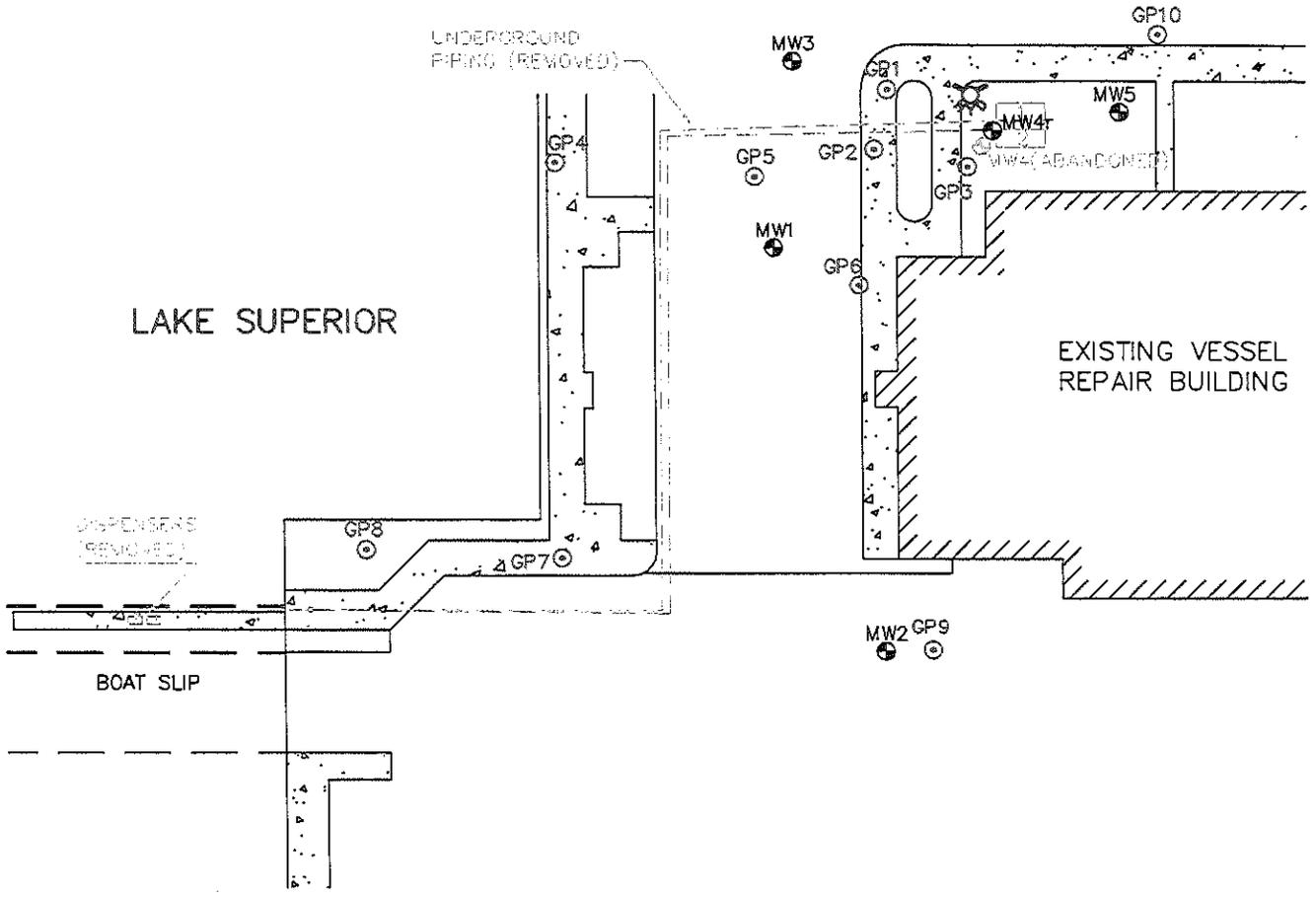
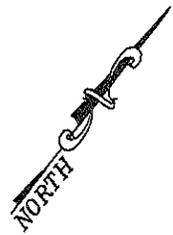
WASHBURN, WIS.
 NW/4 ASHLAND 15' QUADRANGLE
 N4637.5--W9052.5/7.5

1964
 PHOTOREVISED 1975
 REI Engineering, INC.

WASHBURN MARINA
 1 MARINA DRIVE
 WASHBURN, WISCONSIN

FIGURE 1 : SITE VICINITY MAP

PROJECT NO.	4339	DRAWN BY:	TAW	DATE:	03/19/09
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LEGEND

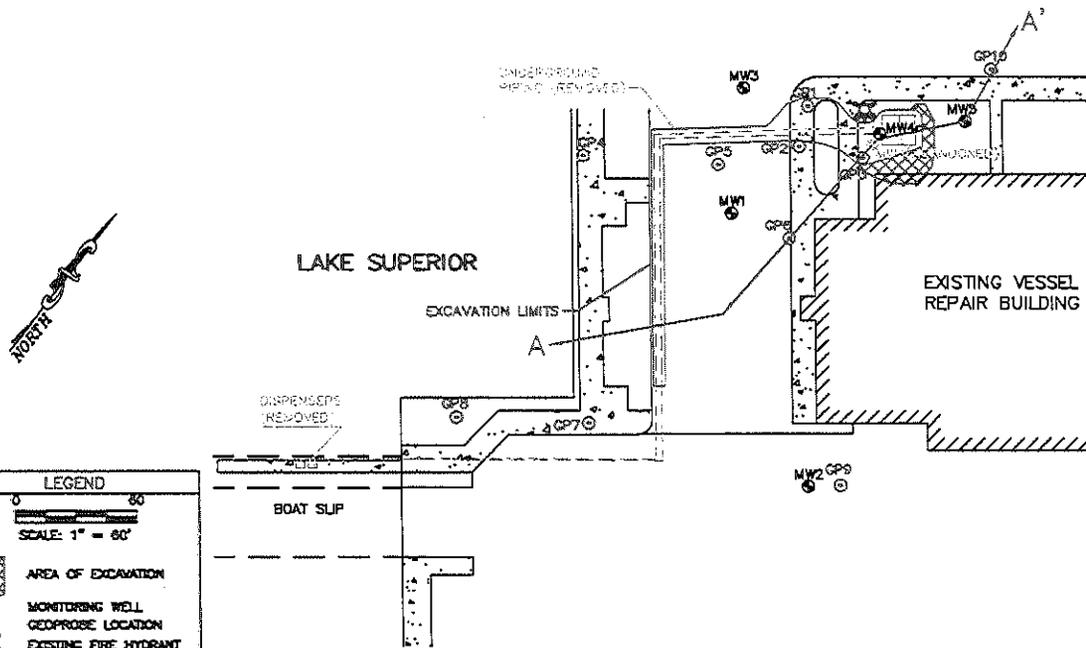
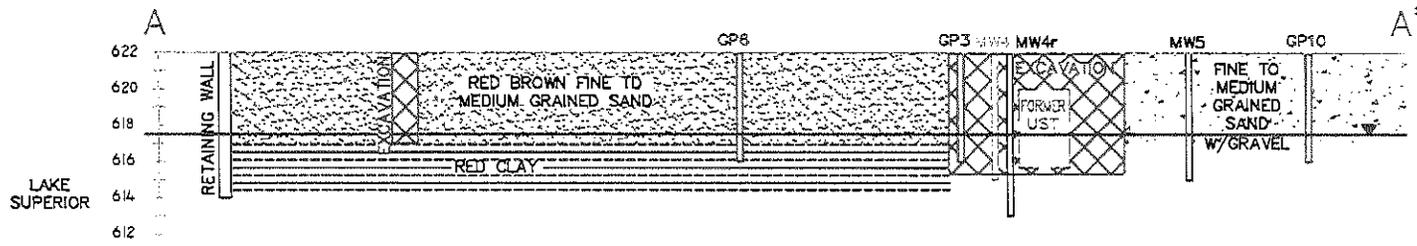
0 40

 SCALE: 1" = 40'

- MONITORING WELL
- GEOPROBE LOCATION
- EXISTING FIRE HYDRANT
- 1,000 GAL DIESEL UST
- 1,000 GAL GAS UST
- UNDERGROUND PIPING

REI Engineering, INC.

WASHBURN MARINA 125 CENTRAL AVENUE WASHBURN, WISCONSIN		FIGURE 2 : SITE MAP - EXCAVATION LIMITS	
PROJECT NO.	4339	DRAWN BY:	DATE:
		MAH	3/15/10



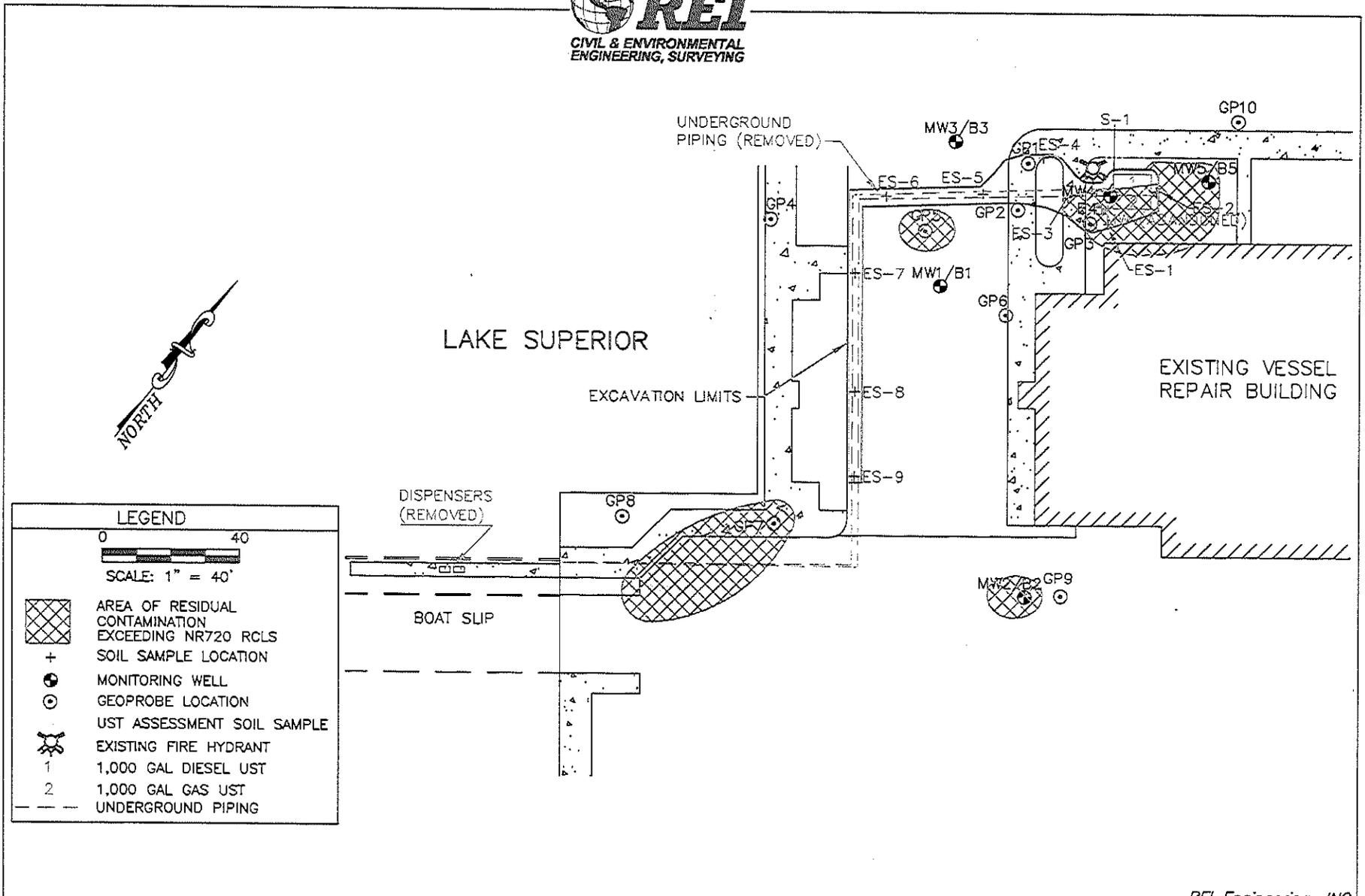
LEGEND	
	SCALE: 1" = 60'
	AREA OF EXCAVATION
	MONITORING WELL
	GEOPROBE LOCATION
	EXISTING FIRE HYDRANT
1	1,000 GAL DIESEL UST
2	1,000 GAL GAS UST
	UNDERGROUND PIPING

REI Engineering, INC.

WASHBURN MARINA
 125 CENTRAL AVENUE
 WASHBURN, WISCONSIN

FIGURE 3 : CROSS SECTION A - A'

PROJECT NO.	4339	DRAWN BY:	MAH	DATE:	3/15/10
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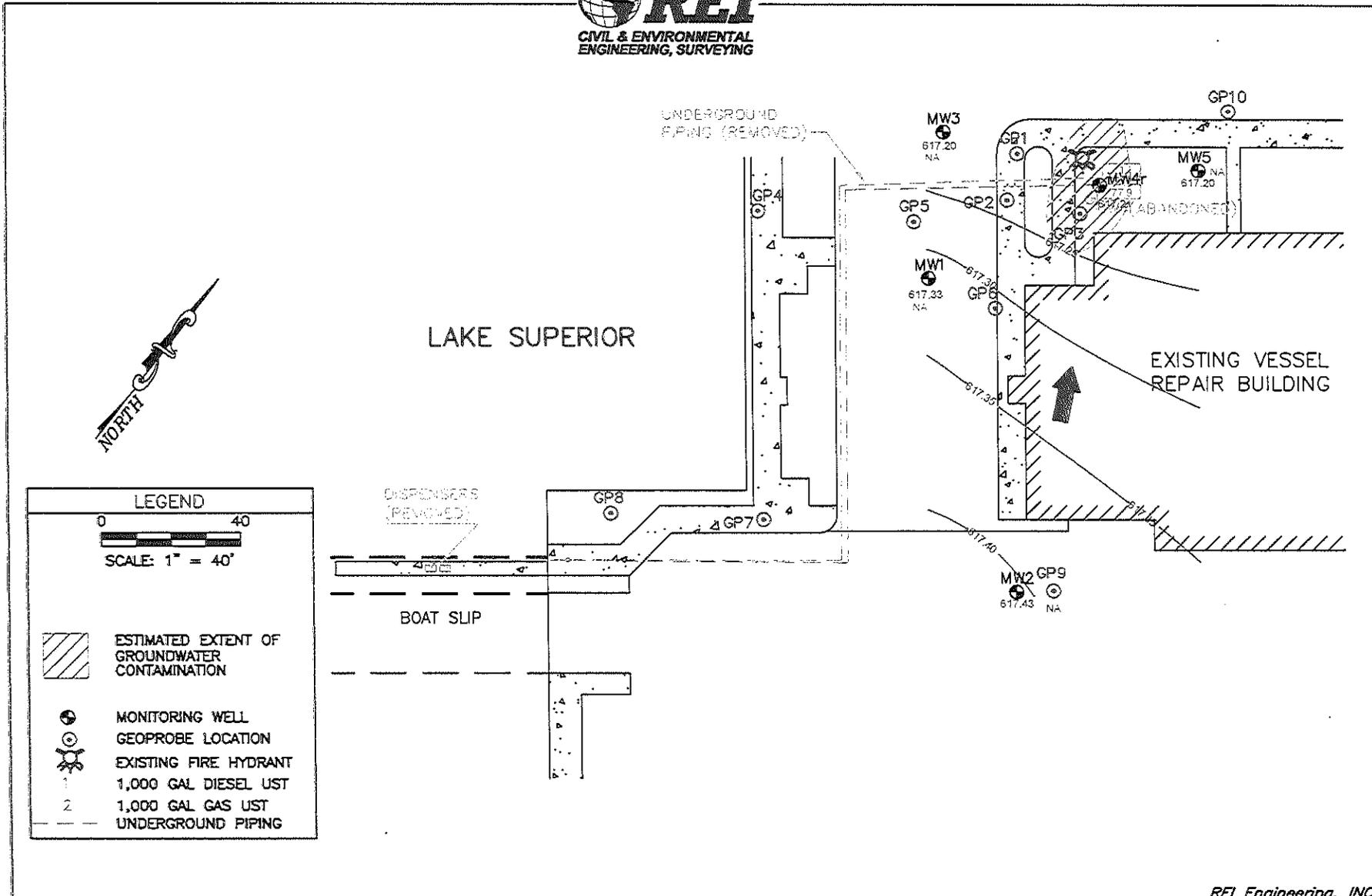


REI Engineering, INC.

WASHBURN MARINA
 1 MARINA DRIVE
 WASHBURN, WISCONSIN

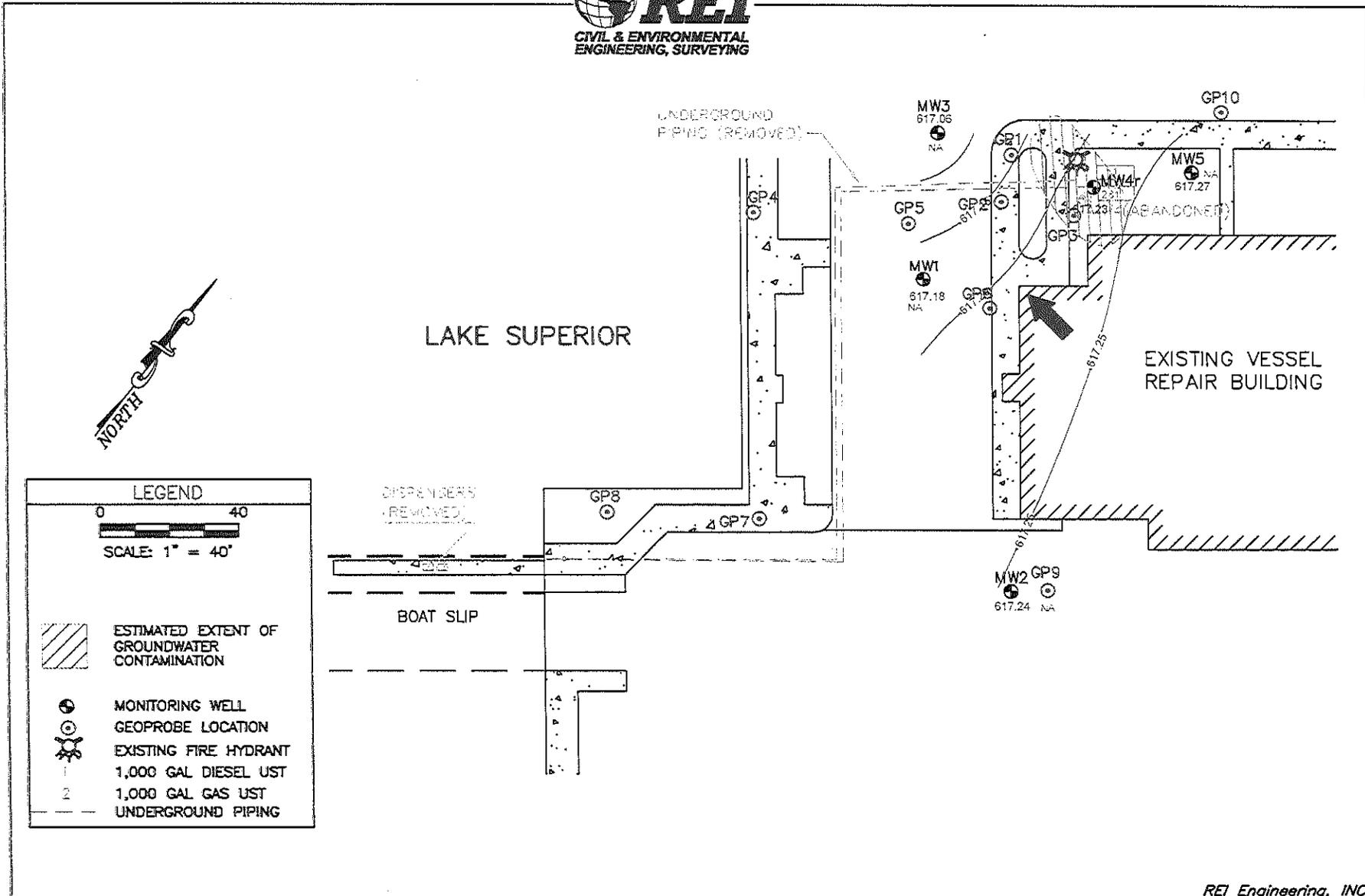
FIGURE 4 : AREA OF EXCAVATION & RESIDUAL SOIL CONTAMINATION

PROJECT NO.	DRAWN BY:	DATE:
4339	MAH	3/16/10



REI Engineering, INC.

WASHBURN MARINA 125 CENTRAL AVENUE WASHBURN, WISCONSIN		FIGURE 5A : GROUNDWATER CONTOURS 7/23/09 & ESTIMATED EXTENT OF GROUNDWATER CONTAMINATION (BENZENE)	
PROJECT NO.	4339	DRAWN BY:	MAH
		DATE:	3/16/10



REI Engineering, INC.

WASHBURN MARINA
 125 CENTRAL AVENUE
 WASHBURN, WISCONSIN

FIGURE 5B : GROUNDWATER CONTOURS 10/14/09 & ESTIMATED EXTENT OF
 GROUNDWATER CONTAMINATION (BENZENE)

PROJECT NO.

4339

DRAWN BY:

MAH

DATE:

3/16/10

TABLE 1a
SOIL BORING ANALYTICAL RESULTS
WASHBURN MARINA
1 MARINA DRIVE
WASHBURN, WI

Date-->				9/14/98	9/14/98	9/14/98	9/14/98	9/14/98	9/14/98	9/14/98	9/14/98	9/14/98	3/9/99	3/9/99	3/9/99	11/2/00	11/2/00
Sample-->				GP1	GP2	GP3	GP4	GP5	GP6	GP7	GP8	GP10	B1	B2	B3	B4	B5
Sample Depth--(Feet)-->				2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4
Detected PVOC's (ug/kg)	RCL	Table 1	Table 2														
Benzene	5.5	8,500	1,100	140	<5	580	<5	26	<5	1,400	<5	<5	<5	390	<5	1,320	<25
Ethylbenzene	2,900	4,600	NS	99	14	4,100	<5	9	<5	440	<5	<5	<5	380	<5	6,500	112
Toluene	1,500	38,000	NS	610	<5	4,200	35	170	<5	3,100	99	99	<5	1,800	<5	4,310	124
Xylenes (Total)	4,100	42,000	NS	640	<5	28,000	<5	130	<5	5,200	25	25	<5	2,300	<5	53,100	615
Methyl tert Butyl Ether	NS	NS	NS	<5	<5	240	<5	<5	<5	170	<5	<5	<5	32	<5	<200	<25
1,2,4-Trimethylbenzene	NS	83,000	NS	160	56	22,000	<5	51	<5	1,400	8	<5	<5	<5	<5	72,400	302
1,3,5-Trimethylbenzene	NS	11,000	NS	<5	<5	7,700	<5	<5	<5	640	<5	<5	<5	<5	<5	25,400	82.5
PAH's (ug/kg)	D.C. NI																
1-Methyl Naphthalene	1,100,000			210	69	1,100	67	3,400	1,700	420	430	<24	<24	<29	450	1,810	<3.66
2-Methyl Naphthalene	600,000			170	48	1,000	64	1,600	770	350	350	<21	<21	<25	230	3,230	<2.9
Acenaphthene	900,000			240	94	150	110	4,800	3,400	480	860	100	<17	120	570	<6.81	<7.28
Acenaphthylene	18,000			130	61	320	<35	2,000	220	<350	260	<35	<36	<42	<180	<4.62	<5.3
Anthracene	5,000,000			17	8	24	5.8	580	420	<16	76.0	2.3	<1.6	4.0	<8.1	<3.19	<3.66
Benzo (a) Anthracene	88			150	110	65	91	<1.7	1,200	780	390	16	<1.7	21	180	2.82	<3.15
Benzo (a) Pyrene	8.8			21	3.5	40	25	<2.5	82	710	14	<2.5	<2.5	26	72	31.2	<2.9
Benzo (b) Fluoranthene	88			110	39	150	41	<2.1	790	340	240	<2.1	<2.1	20	240	33.3	<1.39
Benzo (g,h,i) Perylene	1,800			30	<3.6	<3.6	19	<3.6	<3.6	39	39	<3.6	<3.7	15	170	33.5	<1.26
Benzo (k) Fluoranthene	880			140	26	150	73	<1.1	420	1,100	360	<1.1	<1.1	54	240	24.5	<1.51
Chrysene	8,800			880	490	1,000	83	<1.7	330	630	320	250	<1.7	15	130	26	<2.52
Dibenzo (a,h) Anthracene	8.8			25	10	<2.3	16	<2.3	<2.3	2,000	<2.3	<2.3	<2.3	<2.7	71	41.8	<1.77
Fluoranthene	600,000			200	75	120	79	2,100	1,500	310	490	15	<4.8	42	230	334	<3.28
Fluorene	600,000			17	<2.5	28	35	700	270	<25	43.0	11.0	<2.5	7.2	23	73.8	<4.41
Ideno (1,2,3-cd) Pyrene	88			<1.9	<1.9	<1.9	8.8	<1.9	92	<19	12.0	<1.9	<1.9	12	48	25.6	<2.14
Naphthalene	20,000			120	52	540	<20	380	100	<200	120	<20	<20	<24	360	798	<4.92
Phenanthrene	18,000			57	17	38	23	420	460	140	150	1.9	<1.8	24	190	348	<2.02
Pyrene	500,000			140	62	120	49	3,500	590	61	48	110	3.2	7.6	62	111	<3.91
GRO (mg/kg)	100	NS	NS	8.9	1.1	290	3.1	3.5	<1.0	45	2.2	2.2	1.0	26	<1.0	637	<6.31
DRO (mg/kg)	100	NS	NS	2.3	1.8	290	1.9	5.3	1.5	22	2	2.5	<1.3	21	40	238	<6.3
Lead (mg/kg)	50	NS	NS	<3.5	<3.5	<3.3	<3.1	11	<3.4	<3.0	<3.4	<3.9	NA	NA	NA	NA	NA

Notes:

RCL - NR 720 Soil Residual Contaminant Level

Table 1 - COMM 46 Table 1 Value - Indicates Petroleum Product in Soil Pores

Table 2 - Direct Contact Standard

D.C. NI - "Suggested" NR 720 Non-Industrial Direct Contact Standard for PAHs

< - Concentration below listed laboratory detection limit

RCL exceedances are bold

Bold
Bold

Table 1 Exceedances are outlined in bold

PVOCs - Petroleum Volatile Organic Compounds

PAHs - Polynuclear Aromatic Compounds

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

**TABLE 1b
UST REMOVAL SOIL ANALYTICAL RESULTS
WASHBURN MARINA
1 MARINA DRIVE
WASHBURN, WI**

<i>Date--></i>				10/30/02	10/30/02	11/7/02	11/7/02	11/7/02	11/7/02
<i>Sample--></i>				SS-1	SS-2	SS-3	SS-4	SS-5	SS-6
<i>Sample Depth--(Feet)--></i>				2.5	2.5	2.5	3.0	2.5	7.0
Detected PVOC's (ug/kg)	RCL	Table 1	Table 2						
Benzene	5.5	8,500	1,100	<25	36	<25	130	130	690
Ethylbenzene	2,900	4,600	NS	<25	60	<25	110	110	2,000
Toluene	1,500	38,000	NS	<25	210	76	530	890	2,400
Xylenes (Total)	4,100	42,000	NS	<50	400	172	720	910	89,000
Methyl tert Butyl Ether	NS	NS	NS	<25	<25	<25	<25	<25	<50
1,2,4-Trimethylbenzene	NS	83,000	NS	<25	120	80	200	220	130,000
1,3,5-Trimethylbenzene	NS	11,000	NS	<25	<25	<25	58	66	53,000
GRO (mg/kg)	100	NS	NS	<2.8	4.2	<4.0	6.6	7.1	920
DRO (mg/kg)	100	NS	NS	<3.4	51	440	240	150	1,200

Notes:

RCL - NR 720 Soil Residual Contaminant Level

Table 1 - COMM 46 Table 1 Value - Indicates Petroleum Product in Soil Pores

Table 2 - Direct Contact Standard

< - Concentration below listed laboratory detection limit

RCL exceedences are bold

Bold
Bold

Table 1 Exceedences are outlined in bold

PVOCs - Petroleum Volatile Organic Compounds

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

TABLE 1c
EXCAVATION CONFIRMATION SOIL ANALYTICAL RESULTS
WASHBURN MARINA
1 MARINA DRIVE
WASHBURN, WI

<i>Date--></i>				10/31/2007	10/31/2007	10/31/2007	10/31/2007	10/31/2007	10/31/2007	10/31/2007	10/31/2007	10/31/2007
<i>Sample--></i>				ES-1	ES-2	ES-3	ES-4	ES-5	ES-6	ES-7	ES-8	ES-9
<i>Depth--></i>				5'	5'	7'	5'	5'	5'	5'	5'	5'
<i>Location--></i>				Sidewall	Sidewall	Bottom	Sidewall	Bottom	Bottom	Bottom	Bottom	Bottom
PVOC (ug/kg)	RCL	Table 1	Table 2									
Benzene	5.5	8,500	1,100	291	66	641	<19.0	<18.0	<18.0	<20.0	<19.0	<20.0
Ethylbenzene	2,900	4,600	-	450	<20.0	1,610	<21.0	<21.0	<21.0	<23.0	<21.0	<22.0
Methyl-tert-butyl-ether	-	-	-	<14	90	<14.0	<13.0	<13.0	<13.0	<14.0	<13.0	<14.0
Toluene	1,500	38,000	-	534	129	4,020	<20.0	67	<19.0	<22.0	<19.0	<21.0
1,3,5-Trimethylbenzene	-	11,000	-	180	<20.0	3,620	<21.0	<21.0	<21.0	<23.0	<21.0	<22.0
1,2,4-Trimethylbenzene	-	83,000	-	352	<14.0	10,400	<15.0	<15.0	<15.0	<17.0	<15.0	<16.0
Total Xylenes	4,100	42,000	-	1,641	158	14,420	<24.0	66	<24.0	<27.0	<24.0	<26.0
PAH (ug/kg)												
1-Methylnaphthalene	1,100,000	-	-	<4.20	<4.10	3,870	<4.30	6.30	<4.50	<4.50	<4.50	52.30
2-Methylnaphthalene	600,000	-	-	199	30.30	3,620	<4.70	9.20	<4.90	<5.00	<5.00	71.30
Acenaphthene	900,000	-	-	<5.40	<5.20	<5.10	<5.40	<5.40	<5.70	<5.70	<5.70	<6.80
Acenaphthylene	18,000	-	-	<7.50	<7.30	<7.20	<7.60	<7.50	<7.90	<8.00	<8.00	<9.60
Anthracene	5,000,000	-	-	<3.60	<3.50	<3.50	<3.70	<3.60	<3.90	<3.90	<3.90	<4.70
Benzo(a)anthracene	88	-	-	<4.70	<4.50	<4.50	<4.70	<4.70	<4.90	<5.00	<5.00	<6.00
Benzo(a)pyrene	8.8	-	-	17.20	8.50	10.60	<2.60	3.10	<2.80	<2.80	<2.80	<3.30
Benzo(b)fluoranthene	88	-	-	<2.40	<2.30	<2.30	<2.40	<2.40	<3.50	<2.50	<2.50	<3.10
Benzo(ghi)perylene	1,800	-	-	<4.60	11.40	9.20	<4.60	<4.60	<4.80	<4.80	<4.80	<5.80
Benzo(k)fluoranthene	880	-	-	<3.30	<3.20	<3.20	<3.30	<3.30	<3.50	<3.50	<3.50	<4.20
Chrysene	8,800	-	-	<2.60	<2.50	<2.50	<2.60	<2.60	<2.80	<2.80	<2.80	<3.30
Dibenzo(a,h)anthracene	9	-	-	<3.10	<3.00	<2.90	<3.10	<3.10	<3.20	<3.30	<3.30	<3.90
Fluoranthene	600,000	-	-	<3.00	<2.90	<2.80	<3.00	<3.00	<3.10	<3.20	<3.20	<3.80
Fluorene	600,000	-	-	<3.80	<3.70	<3.60	<3.80	<3.80	<4.00	<4.00	<4.00	<4.80
Indeno(1,2,3-cd)pyrene	88	-	-	<2.50	9.20	8.20	<2.50	<2.50	<2.60	<2.70	<2.70	<3.20
Naphthalene	20,000	-	-	77.70	17.70	413	<5.30	<5.20	<5.50	<5.60	<5.60	43.30
Phenanthrene	18,000	-	-	<4.70	<4.50	<4.50	<4.70	<4.70	<4.90	<5.00	<5.00	<6.00
Pyrene	500,000	-	-	<3.20	<3.10	<3.10	<3.20	<3.20	<3.40	<3.40	<3.40	<4.10

Notes:

RCL - NR 720 Suggested Generic Residual Contaminant Levels for PVOC compounds in soil.
Suggested Generic Soil Cleanup Levels of PAHs - Non-Industrial Direct Contact Pathway
Table 1 = NR746 Indicators of Residual Petroleum Product in Soil Pores
Bold where RCL was exceeded.
Bold and bordered where Table 1 was exceeded

TABLE 2a
MWI GROUNDWATER ANALYTICAL RESULTS
WASHBURN MARINA
1 MARINA DRIVE
WASHBURN, WI

Parameter	Date		7/21/99	11/2/00	8/28/01	12/12/03	4/29/08	9/11/08	12/31/08	3/11/09
	ES	PAL								
GRO	-	-	59.2	NA	NA	NA	NA	NA	NA	NA
DRO	-	-	2,970	NA	NA	NA	NA	NA	NA	NA
VOC Parameters										
Benzene	5	0.5	<0.2	<0.15	<0.45	6.2	<0.31	<0.31	<0.310	<0.310
Ethylbenzene	700	140	<0.5	<0.5	<0.82	3.7	<0.50	<0.50	<0.500	<0.500
Toluene	343	68.6	<0.5	<0.4	<0.68	9.0	<0.30	<0.30	<0.300	<0.300
Xylenes (Total)	1,000	200	<0.5	<0.4	<2.47	16.6	<0.62	<0.62	1.24	<0.920
Methyl tert Butyl Ether	60	12	<0.3	<0.3	<0.43	<0.58	<0.30	<0.30	<0.300	<0.300
Naphthalene	100	10	<1.0	NA	NA	<0.58	<0.80	<0.80	<0.800	<0.800
Total Trimethylbenzene	480	96	3.99	<0.4	<1.86	5.8	<0.40	<0.40	1.21	1.04
PAH Parameters										
1-Methyl Naphthalene	-	-	3.77	NA	NA	0.037	NA	NA	NA	NA
2-Methyl Naphthalene	-	-	1.16	NA	NA	0.038	NA	NA	NA	NA
Benzo(a)Pyrene	0.2	0.02	<0.13	NA	NA	<0.018	NA	NA	NA	NA
Chrysene	0.2	0.02	<0.17	NA	NA	<0.018	NA	NA	NA	NA
Naphthalene	100	10	0.557	NA	NA	0.18	NA	NA	NA	NA
Benzo(a)Anthracene	-	-	<0.17	NA	NA	<0.015	NA	NA	NA	NA
Benzo(b)Fluoranthene	0.2	0.02	0.396	NA	NA	<0.016	NA	NA	NA	NA
Benzo(k)Fluoranthene	-	-	<0.2	NA	NA	<0.024	NA	NA	NA	NA
Dibenzo(a,h)Anthracene	-	-	<0.33	NA	NA	<0.020	NA	NA	NA	NA
Benzo(ghi)Perylene	-	-	<0.2	NA	NA	<0.020	NA	NA	NA	NA
Indeno(1,2,3-cd)Pyrene	-	-	<0.23	NA	NA	<0.027	NA	NA	NA	NA
Pyrene	250	50	<0.37	NA	NA	0.022	NA	NA	NA	NA
Fluoranthene	400	80	1.67	NA	NA	0.029	NA	NA	NA	NA
Acenaphthene	-	-	<0.3	NA	NA	<0.023	NA	NA	NA	NA
Fluorene	400	80	0.248	NA	NA	<0.022	NA	NA	NA	NA
Anthracene	3,000	600	<0.3	NA	NA	<0.025	NA	NA	NA	NA
Phenanthrene	-	-	1.64	NA	NA	0.031	NA	NA	NA	NA
Lead (mg/L)	15	1.5	1.4	NA	NA	NA	NA	NA	NA	NA
Dissolved Iron (mg/L)	-	-	NA	43.1	NA	NA	2.27	0.626	2.38	NA
Nitrate-Nitrite (mg/L)	-	-	NA	<0.3	NA	NA	<0.10	<0.10	<0.10	NA
Sulfate (mg/L)	-	-	NA	73.2	NA	NA	92.1	3.19	3.66	NA
Field Measurements										
Temperature (°F)			NA	NA	NA	NA	46.85	64.98	45.86	44.15
Conductivity (ms/cm)			NA	NA	NA	NA	774	844	798	754
Dissolved Oxygen (mg/L)			NA	NA	NA	NA	3.12	1.48	2.83	2.03
pH			NA	NA	NA	NA	6.44	8.05	6.26	7.44
Redox Potential (mV)			NA	NA	NA	NA	102.3	64.9	105.3	99.5

Notes:

All values are reported in µg/l (ppb)

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

< Concentration less than listed detection limit = Not Detected

NA = Not Analyzed

Bold	= ES exceeded
<i>Italic</i>	= PAL exceeded

TABLE 2b
MW2 GROUNDWATER ANALYTICAL RESULTS
WASHBURN MARINA
1 MARINA DRIVE
WASHBURN, WI

Parameter	Date		7/21/99	11/2/00	3/14/01	8/28/01	12/12/03	4/29/08	9/11/08	12/31/08	3/11/09
	ES	PAL									
GRO	-	-	65	NA	NA	NA	NA	NA	NA	NA	NA
DRO	-	-	1,710	NA	NA	NA	NA	NA	NA	NA	NA
VOC Parameters											
Benzene	5	0.5	<2.0	<i>1.5</i>	8.61	<0.45	7.9	<0.31	<0.31	<0.310	<0.310
Ethylbenzene	700	140	<5.0	<0.5	<0.5	<0.82	2.1	<0.50	<0.50	<0.500	<0.500
Toluene	343	68.6	<5.0	5.21	1.98	0.74	5.7	<0.30	<0.30	<0.300	<0.300
Xylenes (Total)	1,000	200	<5.0	<0.4	<0.4	<2.47	10	<0.62	<0.62	<0.980	<0.980
Methyl tert Butyl Ether	60	12	<3.0	<0.3	<0.3	<0.43	<0.58	<0.30	<0.30	<0.300	<0.300
Naphthalene	100	10	<10.0	NA	NA	NA	<0.58	<0.80	<0.80	<0.800	<0.800
Total Trimethylbenzene	480	96	7.12	<0.4	<0.4	<1.86	2.47	<0.40	<0.40	<0.710	<0.710
PAH Parameters											
1-Methyl Naphthalene	-	-	<0.09	NA	NA	NA	<0.024	NA	NA	NA	NA
2-Methyl Naphthalene	-	-	<0.08	NA	NA	NA	<0.023	NA	NA	NA	NA
Benzo(a)Pyrene	0.2	0.02	<0.04	NA	NA	NA	<0.019	NA	NA	NA	NA
Chrysene	0.2	0.02	<0.05	NA	NA	NA	<0.019	NA	NA	NA	NA
Naphthalene	100	10	0.086	NA	NA	NA	0.098	NA	NA	NA	NA
Benzo(a)Anthracene	-	-	<0.05	NA	NA	NA	<0.016	NA	NA	NA	NA
Benzo(b)Fluoranthene	0.2	0.02	<0.04	NA	NA	NA	<0.018	NA	NA	NA	NA
Benzo(k)Fluoranthene	-	-	<0.06	NA	NA	NA	<0.026	NA	NA	NA	NA
Dibenzo(a,h)Anthracene	-	-	<0.1	NA	NA	NA	<0.022	NA	NA	NA	NA
Benzo(ghi)Perylene	-	-	0.098	NA	NA	NA	<0.022	NA	NA	NA	NA
Indeno(1,2,3-cd)Pyrene	-	-	<0.07	NA	NA	NA	<0.028	NA	NA	NA	NA
Pyrene	250	50	<0.11	NA	NA	NA	<0.023	NA	NA	NA	NA
Fluoranthene	400	80	0.395	NA	NA	NA	<0.018	NA	NA	NA	NA
Acenaphthene	-	-	<0.1	NA	NA	NA	<0.024	NA	NA	NA	NA
Fluorene	400	80	<0.07	NA	NA	NA	<0.023	NA	NA	NA	NA
Anthracene	3,000	600	<0.09	NA	NA	NA	<0.027	NA	NA	NA	NA
Phenanthrene	-	-	<0.08	NA	NA	NA	<0.022	NA	NA	NA	NA
Lead (mg/L)	15	1.5	<1.0	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Iron (mg/L)	-	-	NA	7.25	5.97	NA	NA	0.49	0.791	1.13	NA
Nitrate-Nitrite (mg/L)	-	-	NA	<0.3	<0.3	NA	NA	<0.10	<0.10	<0.10	NA
Sulfate (mg/L)	-	-	NA	12.3	6.52	NA	NA	27	4.09	3.46	NA
Field Measurements											
Temperature (°F)			NA	NA	NA	NA	NA	47.84	62.48	46.86	44.68
Conductivity (ms/cm)			NA	NA	NA	NA	NA	804	1145	1054	997
Dissolved Oxygen (mg/L)			NA	NA	NA	NA	NA	3.01	1.8	2.98	2.45
pH			NA	NA	NA	NA	NA	7.11	9.17	6.69	7.84
Redox Potential (mV)			NA	NA	NA	NA	NA	51.4	-100.9	33.1	48.9

Notes:

All values are reported in µg/l (ppb)

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

< Concentration less than listed detection limit = Not Detected

NA= Not Analyzed

Bold	= ES exceeded
<i>Italic</i>	= PAL exceeded

TABLE 2c
MW3 GROUNDWATER ANALYTICAL RESULTS
WASHBURN MARINA
1 MARINA DRIVE
WASHBURN, WI

Parameter	Date		7/21/99	11/2/00	3/14/01	8/28/01	12/12/03	4/29/08	9/11/08	12/31/08	3/11/09
	ES	PAL									
GRO	-	-	131	NA	NA	NA	NA	NA	NA	NA	NA
DRO	-	-	2,610	NA	NA	NA	NA	NA	NA	NA	NA
VOC Parameters											
Benzene	5	0.5	2.28	0.159	33.6	10	65	2.65	<0.310	<0.310	<0.310
Ethylbenzene	700	140	<2.5	<0.5	<0.5	11	44	1.21	<0.500	<0.500	<0.500
Toluene	343	68.6	<2.5	<0.4	<0.4	4.5	150	1.17	<0.300	<0.300	<0.300
Xylenes (Total)	1,000	200	6	4.179	5.837	106	188	3.25	<0.980	4.49	1.50
Methyl tert Butyl Ether	60	12	<1.5	<0.3	<0.3	<0.43	<0.58	<0.30	<0.300	<0.300	<0.300
Naphthalene	100	10	<5.0	NA	NA	NA	5.2	<0.80	<0.800	<0.800	<0.800
Total Trimethylbenzene	480	96	13.75	3.424	6.134	37.2	61	3.34	5.92	8.98	4.20
PAH Parameters											
1-Methyl Naphthalene	-	-	<0.09	NA	NA	NA	0.43	NA	NA	NA	NA
2-Methyl Naphthalene	-	-	<0.08	NA	NA	NA	0.25	NA	NA	NA	NA
Benzo(a)Pyrene	0.2	0.02	<0.04	NA	NA	NA	<0.11	NA	NA	NA	NA
Chrysene	0.2	0.02	<0.05	NA	NA	NA	<0.11	NA	NA	NA	NA
Naphthalene	100	10	<0.08	NA	NA	NA	2.3	NA	NA	NA	NA
Benzo(a)Anthracene	-	-	<0.05	NA	NA	NA	<0.098	NA	NA	NA	NA
Benzo(b)Fluoranthene	0.2	0.02	0.185	NA	NA	NA	<0.11	NA	NA	NA	NA
Benzo(k)Fluoranthene	-	-	<0.06	NA	NA	NA	<0.16	NA	NA	NA	NA
Dibenzo(a,h)Anthracene	-	-	<0.1	NA	NA	NA	<0.13	NA	NA	NA	NA
Benzo(ghi)Perylene	-	-	<0.06	NA	NA	NA	<0.13	NA	NA	NA	NA
Indeno(1,2,3-cd)Pyrene	-	-	<0.07	NA	NA	NA	<0.17	NA	NA	NA	NA
Pyrene	250	50	<0.11	NA	NA	NA	<0.14	NA	NA	NA	NA
Fluoranthene	400	80	0.22	NA	NA	NA	<0.11	NA	NA	NA	NA
Acenaphthene	-	-	<0.1	NA	NA	NA	<0.15	NA	NA	NA	NA
Fluorene	400	80	<0.07	NA	NA	NA	<0.14	NA	NA	NA	NA
Anthracene	3,000	600	<0.09	NA	NA	NA	<0.16	NA	NA	NA	NA
Phenanthrene	-	-	1.85	NA	NA	NA	<0.13	NA	NA	NA	NA
Lead (mg/L)	15	1.5	2.21	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Iron (mg/L)	-	-	NA	8.65	6.21	NA	NA	1.48	2.64	3.18	NA
Nitrate-Nitrite (mg/L)	-	-	NA	<0.3	<0.3	NA	NA	<0.10	<0.10	<0.10	NA
Sulfate (mg/L)	-	-	NA	<5.0	<5.00	NA	NA	8.35	2.82	3.17	NA
Field Measurements											
Temperature (°F)			NA	NA	NA	NA	NA	48.57	68.83	49.16	45.12
Conductivity (ms/cm)			NA	NA	NA	NA	NA	704	692	747	728
Dissolved Oxygen (mg/L)			NA	NA	NA	NA	NA	2.22	1.34	2.33	1.99
pH			NA	NA	NA	NA	NA	6.84	7.55	6.32	7.32
Redox Potential (mV)			NA	NA	NA	NA	NA	87.6	8.8	94.2	77.6

Notes:

All values are reported in µg/l (ppb)

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

< Concentration less than listed detection limit = Not Detected

NA = Not Analyzed

Bold	= ES exceeded
<i>Italic</i>	= PAL exceeded

TABLE 2d
 MW4 GROUNDWATER ANALYTICAL RESULTS
 WASHBURN MARINA
 1 MARINA DRIVE
 WASHBURN, WI

Parameter	Date		11/2/00	3/14/01	8/28/01	12/12/03	4/29/08	9/11/08	12/31/08	3/11/09	7/23/09	10/14/09
	ES	PAL										
GRO	-	-	90,400	NA	NA	NA	NA	NA	NA	NA	NA	NA
DRO	-	-	6,680	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOC Parameters												
Benzene	5	0.5	23,700	31,700	52	13	3,360	24.5	306	1,250	77.9	281
Ethylbenzene	1000	200	2,180	5,050	83	12	908	33.2	53.5	292	18.6	37.5
Toluene	700	140	32,200	75,300	480	3.7	3,580	<1.50	<3.00	8.05	1.47	<3.70
Xylenes (Total)	10,000	1000	13,350	33,750	3,500	137	6,180	82.0	319.3	808.7	51.6	153
Methyl tert Butyl Ether	60	12	<30.0	<300	<8.6	6.5	<60.0	<1.50	<3.00	6.08	<0.300	<3.00
Naphthalene	100	10	337	NA	140	21	312	19.4	33.3	89.0	16.7	19.7
Total Trimethylbenzene	480	96	2,373	6,170	2,390	260	3,098	138	342.2	1,077	78	169
PAH Parameters												
1-Methyl Naphthalene	-	-	51.6	NA	NA	2.2	NA	NA	NA	NA	NA	NA
2-Methyl Naphthalene	-	-	89.6	NA	NA	0.65	NA	NA	NA	NA	NA	NA
Benzo(a)Pyrene	0.2	0.02	<0.02	NA	NA	0.27	NA	NA	NA	NA	NA	NA
Chrysene	0.2	0.02	<0.02	NA	NA	0.26	NA	NA	NA	NA	NA	NA
Naphthalene	100	10	164	NA	NA	0.92	NA	NA	NA	NA	NA	NA
Benzo(a)Anthracene	-	-	<0.03	NA	NA	0.31	NA	NA	NA	NA	NA	NA
Benzo(b)Fluoranthene	0.2	0.02	<0.02	NA	NA	0.20	NA	NA	NA	NA	NA	NA
Benzo(k)Fluoranthene	-	-	<0.03	NA	NA	0.16	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)Anthracene	-	-	<0.06	NA	NA	0.045	NA	NA	NA	NA	NA	NA
Benzo(ghi)Perylene	-	-	<0.09	NA	NA	0.22	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)Pyrene	-	-	<0.06	NA	NA	0.11	NA	NA	NA	NA	NA	NA
Pyrene	250	50	<0.1	NA	NA	0.76	NA	NA	NA	NA	NA	NA
Fluoranthene	400	80	<0.03	NA	NA	0.56	NA	NA	NA	NA	NA	NA
Acenaphthene	-	-	4.84	NA	NA	0.23	NA	NA	NA	NA	NA	NA
Fluorene	400	80	0.948	NA	NA	0.18	NA	NA	NA	NA	NA	NA
Anthracene	3,000	600	<0.09	NA	NA	0.19	NA	NA	NA	NA	NA	NA
Phenanthrene	-	-	<0.11	NA	NA	0.15	NA	NA	NA	NA	NA	NA
Lead (mg/L)	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Iron (mg/L)	-	-	6.31	NA	NA	NA	0.639	7.83	1.63	NA	NA	NA
Nitrate-Nitrite (mg/L)	-	-	0.527	NA	NA	NA	0.21	<0.10	<0.10	NA	NA	NA
Sulfate (mg/L)	-	-	<5.00	NA	NA	NA	12.3	5.85	13.2	NA	NA	NA
Field Measurements												
Temperature (°F)			NA	NA	NA	NA	48.93	64.05	49.87	46.7	NA	NA
Conductivity (ms/cm)			NA	NA	NA	NA	601	581	706	665	NA	NA
Dissolved Oxygen (mg/L)			NA	NA	NA	NA	2.75	2.68	3.06	2.01	NA	NA
pH			NA	NA	NA	NA	6.44	4.67	6.69	6.54	NA	NA
Redox Potential (mV)			NA	NA	NA	NA	101.1	212.1	37.7	77.9	NA	NA

MW4 Removed during excavation and replaced with MW4r

Notes:

All values are reported in µg/l (ppb)
 ES = NR140.10 Enforcement Standards
 PAL = NR140.10 Preventive Action Limits
 < Concentration less than listed detection limit = Not Detected
 NA = Not Analyzed

Bold = ES exceeded
Italic = PAL exceeded

TABLE 2e
 MW5 GROUNDWATER ANALYTICAL RESULTS
 WASHBURN MARINA
 1 MARINA DRIVE
 WASHBURN, WI

Parameter	Date		11/2/00	3/14/01	8/28/01	12/12/03	4/29/08	9/11/08	12/31/08	3/11/09
	ES	PAL								
GRO	-	-	<50.0	NA	NA	NA	NA	NA	NA	NA
DRO	-	-	357	NA	NA	NA	NA	NA	NA	NA
VOC Parameters										
Benzene	5	0.5	6.62	2.8	<0.45	<0.30	<0.31	<0.310	<0.310	<0.310
Ethylbenzene	1000	200	0.573	<0.5	<0.82	<0.60	0.63	<0.500	<0.500	<0.500
Toluene	700	140	<0.4	<0.4	<0.68	<0.58	0.56	<0.300	<0.300	<0.300
Xylenes (Total)	10,000	1000	0.405	<0.4	<2.47	<1.84	<0.62	<0.980	<0.980	<0.980
Methyl tert Butyl Ether	60	12	<0.3	<0.3	<0.43	<0.58	<0.30	<0.300	<0.300	<0.300
Naphthalene	100	10	<0.8	NA	NA	<0.58	<0.80	<0.800	<0.800	<0.800
Total Trimethylbenzene	480	96	0.212	<0.4	<1.86	<1.18	<0.40	<0.710	<0.710	<0.710
PAH Parameters										
1-Methyl Naphthalene	-	-	0.346	<0.13	NA	0.053	NA	NA	NA	NA
2-Methyl Naphthalene	-	-	<0.12	<0.12	NA	0.038	NA	NA	NA	NA
Benzo(a)Pyrene	0.2	0.02	0.204	<0.02	NA	<0.029	NA	NA	NA	NA
Chrysene	0.2	0.02	0.127	<0.02	NA	<0.029	NA	NA	NA	NA
Naphthalene	100	10	0.079	<0.06	NA	0.075	NA	NA	NA	NA
Benzo(a)Anthracene	-	-	0.093	<0.03	NA	<0.025	NA	NA	NA	NA
Benzo(b)Fluoranthene	0.2	0.02	0.141	<0.02	NA	<0.027	NA	NA	NA	NA
Benzo(k)Fluoranthene	-	-	0.052	<0.03	NA	<0.040	NA	NA	NA	NA
Dibenzo(a,h)Anthracene	-	-	<0.06	<0.06	NA	<0.033	NA	NA	NA	NA
Benzo(ghi)Perylene	-	-	0.174	<0.09	NA	<0.033	NA	NA	NA	NA
Indeno(1,2,3-cd)Pyrene	-	-	0.069	<0.06	NA	<0.044	NA	NA	NA	NA
Pyrene	250	50	0.158	<0.1	NA	<0.035	NA	NA	NA	NA
Fluoranthene	400	80	0.489	<0.03	NA	<0.027	NA	NA	NA	NA
Acenaphthene	-	-	<0.1	<0.01	NA	<0.038	NA	NA	NA	NA
Fluorene	400	80	<0.11	<0.11	NA	<0.035	NA	NA	NA	NA
Anthracene	3,000	600	<0.09	<0.09	NA	<0.042	NA	NA	NA	NA
Phenanthrene	-	-	0.498	<0.11	NA	<0.033	NA	NA	NA	NA
Lead (mg/L)	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Iron (mg/L)	-	-	0.677	2.11	NA	NA	0.186	8.14	3.94	NA
Nitrate-Nitrite (mg/L)	-	-	<0.3	<0.3	NA	NA	<0.10	<0.10	<0.10	NA
Sulfate (mg/L)	-	-	144	54.5	NA	NA	840	424	432	NA
Field Measurements										
Temperature (°F)			NA	NA	NA	NA	46.12	64.95	43.43	45.88
Conductivity (ns/cm)			NA	NA	NA	NA	1474	2694	1089	1745
Dissolved Oxygen (mg/L)			NA	NA	NA	NA	2.22	1.61	3.2	2.56
pH			NA	NA	NA	NA	6.48	6.93	6.52	6.59
Redox Potential (mV)			NA	NA	NA	NA	66.2	74.7	10.5	66.1

Notes:

All values are reported in µg/l (ppb)

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

< Concentration less than listed detection limit = Not Detected

NA= Not Analyzed

Bold
<i>Italic</i>

**TABLE 3
GROUNDWATER LEVEL DATA
WASHBURN MARINA
1 MARINA DRIVE
WASHBURN, WI**

	MW1	MW2	MW3	MW4R	MW5
Ground Surface Elevation	621.35	621.59	621.43	621.86	621.78
Top of Casing Elevation	621.20	621.08	621.26	621.86	621.48
Top of Screen Elevation	617.70	617.58	618.26	617.91	619.18
Bottom of Screen Elevation	607.70	607.58	608.26	612.91	614.18

Depth to Water (feet)

4/29/08	5.04	5.28	5.12	4.78	5.86
9/11/08	3.98	3.81	4.07	4.66	4.28
12/31/08	4.99	4.80	5.00	5.43	5.12
3/11/09	5.21	5.12	5.21	5.65	5.27
7/23/09	3.87	3.65	4.06	4.65	4.28
10/14/09	4.02	3.84	4.20	4.63	4.21

4/29/08	616.16	615.80	616.14	617.08	615.62
9/11/08	617.22	617.27	617.19	617.20	617.20
12/31/08	616.21	616.28	616.26	616.43	616.36
3/11/09	615.99	615.96	616.05	616.21	616.21
7/23/09	617.33	617.43	617.20	617.21	617.20
10/14/09	617.18	617.24	617.06	617.23	617.27

NM = Not Measured

NI = Not Installed

= Elevation above top of screen