

## Source Property Information

CLOSURE DATE: 10/15/2013

BRRTS #: 02-16-338051 (No Dashes)

FID #: 816010580

ACTIVITY NAME: LAKEHEAD PIPELINE - BOOSTER PUMP #56

DATCP #: NA

PROPERTY ADDRESS: 2800 E 21ST ST

PECFA#: NA

MUNICIPALITY: SUPERIOR

PARCEL ID #: 018010513100

## \*WTM COORDINATES:

## WTM COORDINATES REPRESENT:

X: 362710 Y: 692346

 Approximate Center Of Contaminant Source

\* Coordinates are in  
 WTM83, NAD83 (1991)

 Approximate Source Parcel Center

Please check as appropriate: (BRRTS Action Code)

### CONTINUING OBLIGATIONS

#### Contaminated Media for Residual Contamination:

 Groundwater Contamination > ES (236) Soil Contamination > \*RCL or \*\*SSRCL (232) Contamination in ROW Contamination in ROW Off-Source Contamination Off-Source Contamination

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

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

#### Site Specific Obligations:

 Soil: maintain industrial zoning (220) Cover or Barrier (222)

(note: soil contamination concentrations  
 between non-industrial and industrial levels)

 Direct Contact Soil to GW Pathway Structural Impediment (224) Vapor Mitigation (226) Site Specific Condition (228) Maintain Liability Exemption (230)

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

Comments:

#### 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 #:  (No Dashes) PARCEL ID #:   
ACTIVITY NAME:  WTM COORDINATES: X:  Y:

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

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

**SOURCE LEGAL DOCUMENTS**

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

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

- Maps must be no larger than 11 x 17 inches unless the map is submitted electronically.
- Location Map:** A map outlining all properties within the contaminated site boundaries on a U.S.G.S. topographic map or plat map in sufficient detail to permit easy location of all parcels. If groundwater standards are exceeded, include the location of all potable wells within 1200 feet of the site.  
**Note:** Due to security reasons municipal wells are not identified on GIS Packet maps. However, the locations of these municipal wells must be identified on Case Closure Request maps.  
**Figure #:** 1      **Title:** Site Location Map - Field Booster Pump 56
  - 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 Location Map - Field Booster Pump 56
  - Soil Contamination Contour Map:** For sites closing with residual soil contamination, this map is to show the location of all contaminated soil and a single contour showing the horizontal extent of each area of contiguous residual soil contamination that exceeds a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19.  
**Figure #:** 3      **Title:** Approximate Lateral Extent of NR 720 Exceeding Soil

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**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 #: 2 Title: Site Location Map - Field Booster Pump 56**

**Figure #: 2a, 2b, 2c Title: Cross Section A -A', Cross Section B -B', Cross Section C -C'**

- 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 #: 6 Title: Dissolved Phase Benzene Isoconcentration Contours (ug/l)**

- 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 #: Title:**

**Figure #: Title:**

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

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

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

**Table #: 2 Title: Soil Sampling Results - Excavation and Push Probe Investigation**

- 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 #: 3 Title: Groundwater Sampling Results**

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

**Table #: 2 Title: Groundwater 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).

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## NOTIFICATIONS

### Source Property

**Not Applicable**

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

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

### Off-Source Property

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

**Not Applicable**

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

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

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

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

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

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

**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:**

**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  
Superior Service Center  
1701 N. 4th Street  
Superior WI 54880

Scott Walker, Governor  
Cathy Stepp, Secretary  
Telephone 608-266-2621  
Toll Free 1-888-936-7463  
TTY Access via relay - 711



October 15, 2013

Karl Beaster  
Enbridge Energy  
1320 Grand Avenue  
Superior WI 54880

**KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS**

**SUBJECT:** Post Closure Review and Change in Continuing Obligations  
Former Lakehead Pipeline Booster Pump #56 Site (DV 566 Valve)  
Enbridge Energy Superior Terminal, Superior, WI  
WDNR BRRTS Activity #: 02-16-338051

Dear Mr. Beaster:

On December 3, 2012, you notified the Department of Natural Resources (DNR) that crude oil impacted soil had been discovered during maintenance excavation activities near the DV 566 Valve. Further investigation and sampling results indicated the presence of contaminated soil. Based on additional documentation submitted to the DNR on May 6, 2013 and on July 31, 2013, this contamination appears to be historic contamination associated with the former Lakehead Pipeline Booster Pump #56 site, which was closed on July 14, 2006. At the time of closure, the site was placed on the Remediation and Redevelopment Program's internet accessible Geographic Information System (GIS) Registry, to provide notice of residual soil and groundwater contamination. The 2013 investigation also revealed that existing piping acts as a structural impediment, limiting the ability to adequately define the degree and extent of existing contamination.

Because of the updated information submitted for the site, and the change in the continuing obligations, the Department requested updated documentation for modification of the GIS Registry packet for the site, and fees for a post-closure review and GIS Registry modifications. The Department received the appropriate fees, in accordance with s. NR 749.04(1), Wis. Adm. Code, on August 13, 2013.

The Department considers the Lakehead Pipeline Booster Pump #56 Site closed, with continuing obligations. No further investigation or remediation is required at this time. However, you and future property owners must comply with the continuing obligations as explained in the conditions of closure in this letter. Please read over this letter closely to ensure that you comply with all conditions and other on-going requirements. Provide this letter and any attachments listed at the end of this letter to anyone who purchases this property from you.

This final closure decision is based on the correspondence and data provided, and is issued under ch. NR 726, Wis. Adm. Code. The conditions of closure and continuing obligations required were based on the property being used for industrial purposes.

#### Continuing Obligations

The continuing obligations for this site are summarized below. Further details on actions required are found in the section Closure Conditions.

- Groundwater contamination is present above ch. NR 140, Wis. Adm. Code enforcement standards.
- Residual soil contamination exists that must be properly managed should it be excavated or removed.
- If a structural impediment that obstructed a complete site investigation or cleanup is removed or modified, additional environmental work must be completed.

The following DNR fact sheet, "Continuing Obligations for Environmental Protection", RR-819, was included with this letter, to help explain a property owner's responsibility for continuing obligations on their property. If the fact sheet is lost, you may obtain a copy at <http://dnr.wi.gov/files/PDF/pubs/rr/RR819.pdf>.

#### Closure Conditions

Compliance with the requirements of this letter is a responsibility to which you and any subsequent property owners must adhere. DNR staff will conduct periodic prearranged inspections to ensure that the conditions included in this letter are met. If these requirements are not followed, the DNR may take enforcement action under s. 292.11, Wis. Stats. to ensure compliance with the specified requirements, limitations or other conditions related to the property.

#### Residual Groundwater Contamination (ch. NR 140, 812, Wis. Adm. Code)

Groundwater contamination greater than enforcement standards is present on this contaminated property, as shown on the attached Figure 6, Dissolved Phase Benzene Isoconcentration Contours, Superior Terminal Booster Pump 56, prepared by LHB Engineers & Architects and dated October 2002. If you intend to construct a new well, or reconstruct an existing well, you'll need prior DNR approval.

#### Residual Soil Contamination (ch. NR 718, chs. 500 to 536, Wis. Adm. Code or ch. 289, Wis. Stats.)

Soil contamination remains in the vicinity of Booster Pump 56 and the DV 566 Valve as indicated on the attached maps: Figure 3 Approximate Lateral Extent of NR 720 Exceeding Soil, Superior Terminal Booster Pump 56 prepared by LHB Engineers & Architects and dated October 2002; Figure 3, 2012 DV 566 Valve Excavation, Superior Terminal, Enbridge Energy; and Figure 4, 2002 and 2012 Excavation Extents and Sampling Points, Superior Terminal, Enbridge Energy. 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 contamination remains. If sampling confirms that contamination is present, the property owner at the time of excavation will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. Contaminated soil may be managed in accordance with ch. NR 718, Wis. Adm. Code, with prior DNR approval.

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

Depending on site-specific conditions, construction over contaminated soils or groundwater may result in vapor migration of contaminants into enclosed structures or migration along newly placed underground utility lines. The potential for vapor inhalation and means of 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.

Structural Impediments (s. 292.12 (2) (b), Wis. Stats.)

The existing piping in the vicinity of Booster Pump 56 and the DV 566 Valve, as shown on the attached Figure 4, 2002 and 2012 Excavation Extents and Sampling Points, Superior Terminal, Enbridge Energy, made complete investigation and/or remediation of the soil contamination on this property impracticable. If the structural impediment is to be removed, the property owner shall notify the DNR before removal and conduct an investigation of the degree and extent of petroleum contamination below the structural impediment. If contamination is found at that time, the contamination shall be properly remediated in accordance with applicable statutes and rules.

The DNR 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 Erin Endsley at 715-392-3126 or via email at [erin.endsley@wisconsin.gov](mailto:erin.endsley@wisconsin.gov).

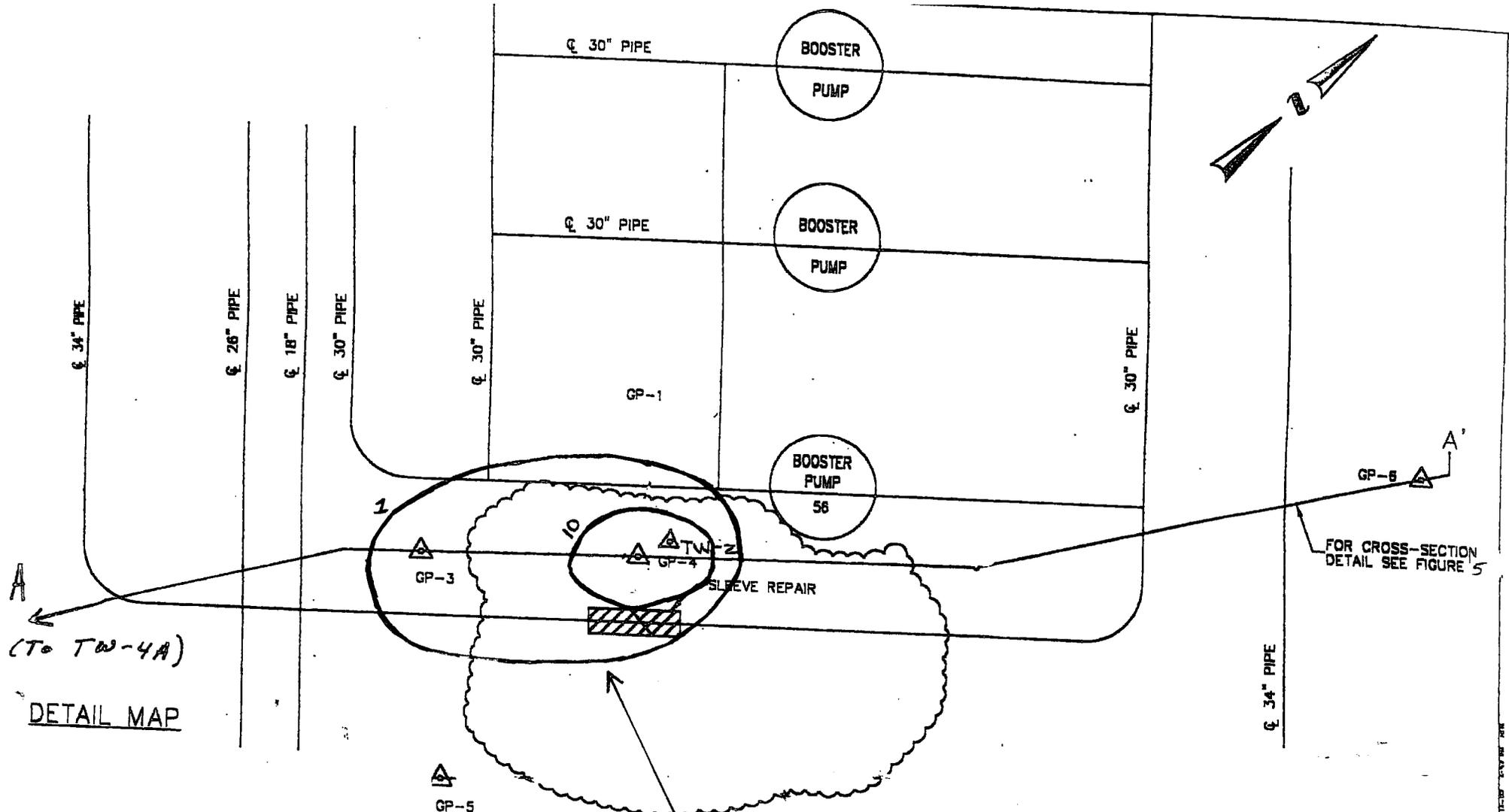
Sincerely,

  
John Robinson  
Northern Region Team Supervisor  
Remediation & Redevelopment Program

Attachments:

- Figure 6, Dissolved Phase Benzene Isoconcentration Contours, Superior Terminal Booster Pump 56, LHB Engineers & Architects, October 2002
- Figure 3, Approximate Lateral Extent of NR 720 Exceeding Soil, Superior Terminal Booster Pump 56, LHB Engineers & Architects, October 2002
- Figure 3, 2012 DV 566 Valve Excavation, Superior Terminal, Enbridge Energy
- Figure 4, 2002 and 2012 Excavation Extents and Sampling Points, Superior Terminal, Enbridge Energy
- RR 819 Continuing Obligations for Environmental Protection

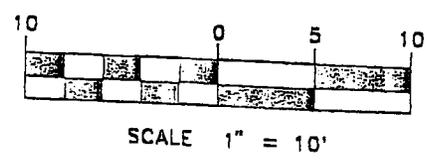
cc: Ryan Erickson, Barr Engineering



A  
(To TW-4A)  
DETAIL MAP

**LEGEND**

- TEMPORARY GW MONITORING WELL
- APPROXIMATE LIMITS OF EXCAVATION
- CROSS-SECTION

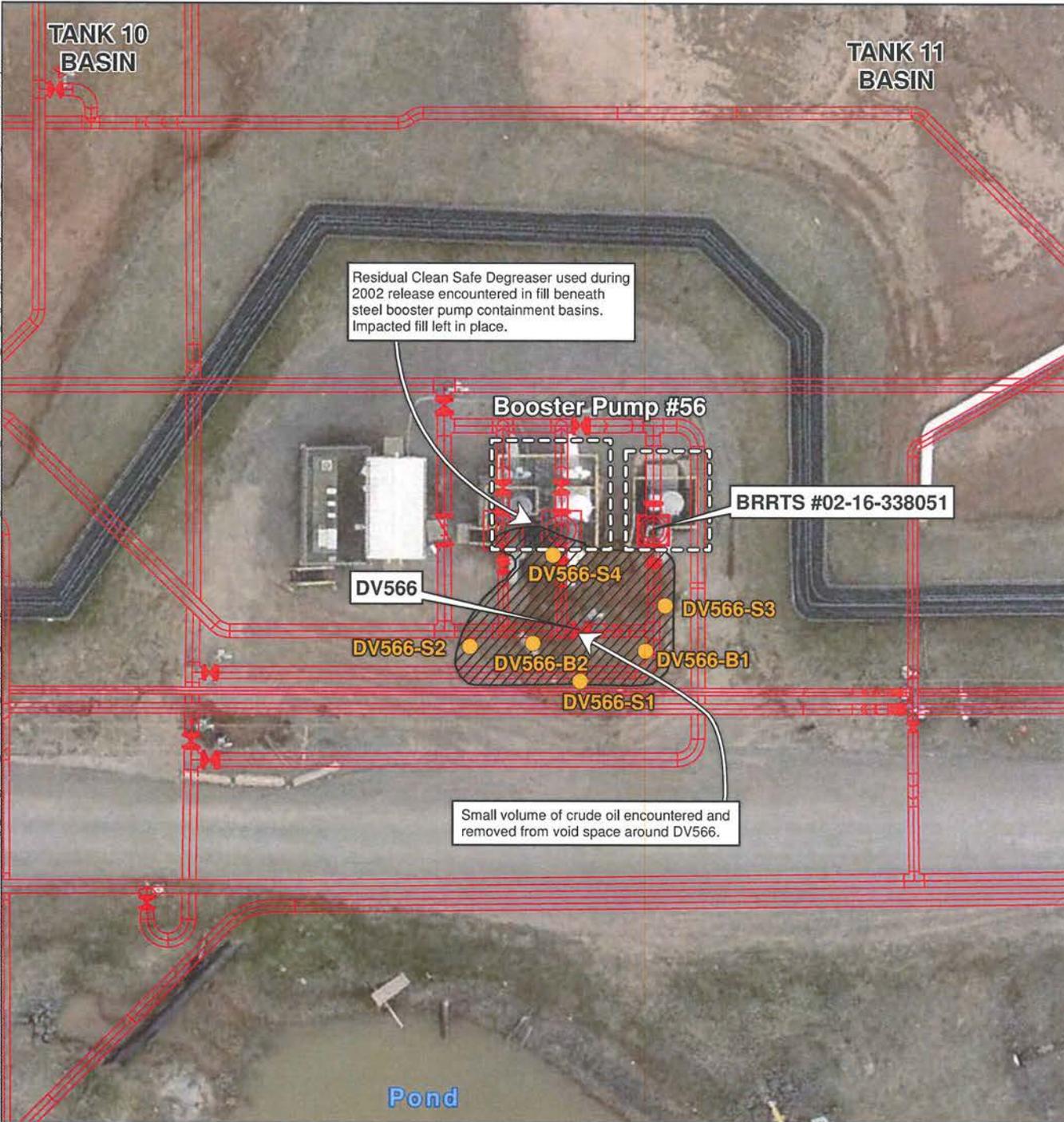


Dissolved Phase Benzene  
Isoconcentration Contours (µg/l)

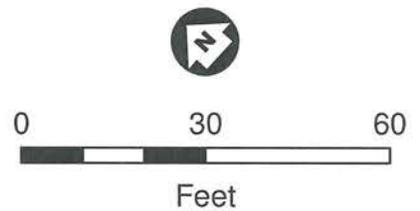
<b>LHB Engineers &amp; Architects</b> <small>DULUTH, MINNESOTA 55802</small>				<b>Natural Resources Engineering Company</b> <small>DULUTH, MINNESOTA 55802</small>	
NO.	REVISION	DATE	APPR.	<b>SUPERIOR TERMINAL BOOSTER PUMP 56 SITE</b>	
1	ISSUED FOR REVIEW	11/28/02	HJDT		
2	RECLINER PER TJ	11/27/02	HJDT	SUPERIOR, WI TERMINAL	
				DATE	DRAWN
				OCT. 2002	HEB
				APPROVED	DAH
				LHB PROJ. NO.	01807.62
				DRAWING NO.	FIGURE 6



Barr, Footer: ArcGIS 10.1, 2013-07-31 11:00 File: \\Client\Enbridge\Energy\Work\_Orders\Spill\_Response\_Investigation\49161092\Work\_Orders\DV566\_Excavation\WIDNR\_GIS\_Registry\_Report\Figure3\_2012\_DV566\_8x11.mxd User: iwk



- 2012 DV566 Valve Excavation (Barr)**
- Excavation Soil Samples
  - Approximate Excavation Extent
  - Pipeline Infrastructure
  - Terminal Property Boundary
  - Steel Booster Pump Containment Basins

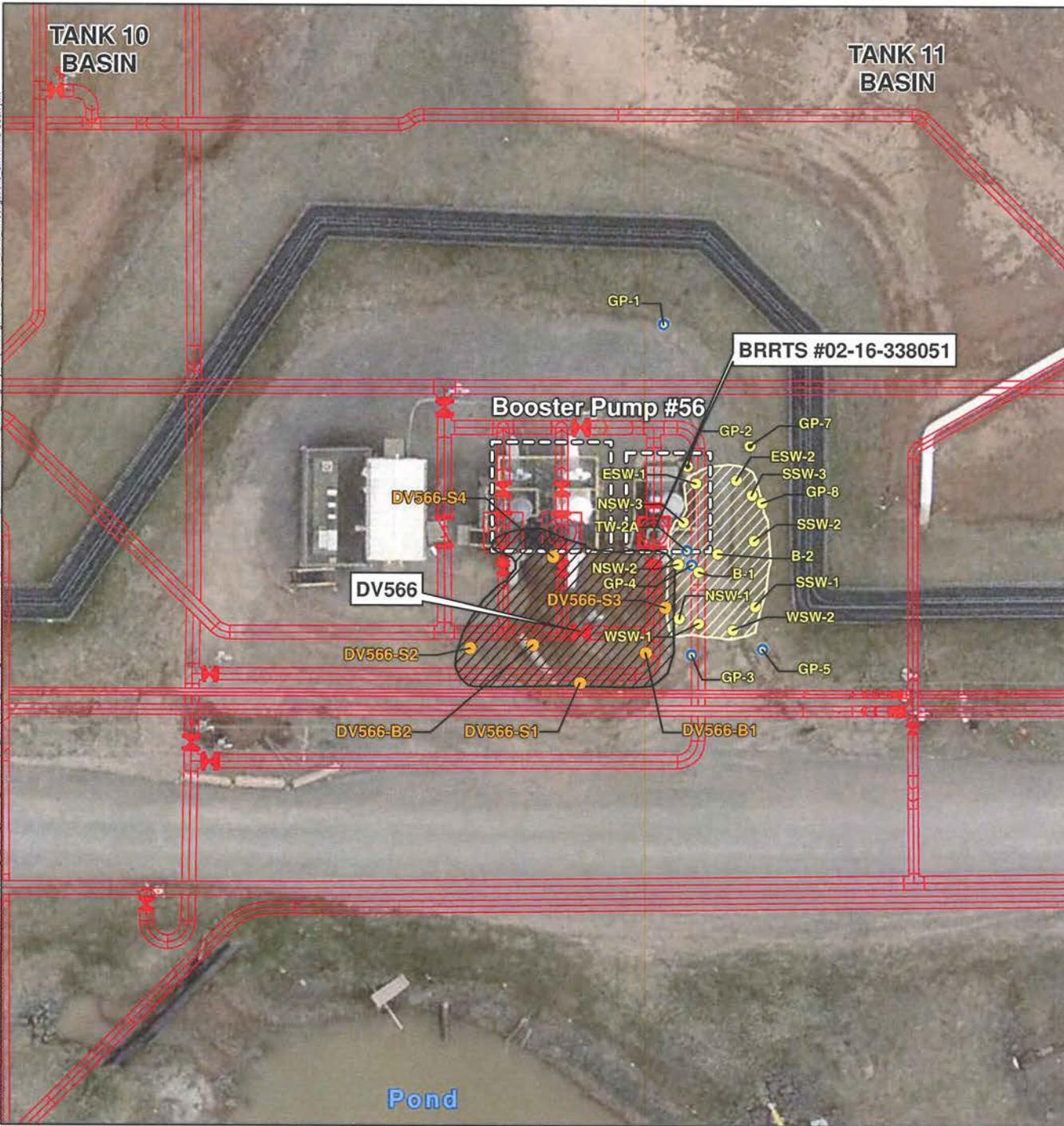


1 Inch = 30 Feet  
 Douglas County Aerial Photography Circa April/May, 2013  
 Figure 3

**2012 DV566 VALVE EXCAVATION  
 SUPERIOR TERMINAL**  
 Enbridge Energy, L.P.  
 Superior, Wisconsin



Barr Footer: ArcGIS 10.1, 2013-07-31 10:59 File: I:\Client\Enbridge\_Energy\Work\_Orders\Spill\_Response\_Investigation\4916192\Work\_Orders\DV566\_Excavation\WIDNFR\_GIS\_Registry\_Report\Figure4\_2002\_and\_2012\_Excavations\_8x11.mxd User: hkk



- 2002 Release Investigation (NRE)**
- Soil Samples
  - Geoprobe Borings
  - Geoprobe Borings / Temporary Groundwater Monitoring Wells
  - Approximate 2002 Excavation Extent

- 2012 DV566 Valve Excavation (Barr)**
- Excavation Soil Samples
  - ▨ Approximate 2012 Excavation Extent
  - ▭ Steel Booster Pump Containment Basins
  - Pipeline Infrastructure
  - Terminal Property Boundary



Feet  
1 Inch = 30 Feet  
Douglas County Aerial Photography Circa April/May, 2013  
Figure 4

**2002 AND 2012 EXCAVATION EXTENTS AND SAMPLING POINTS SUPERIOR TERMINAL**  
Enbridge Energy, L.P.  
Superior, Wisconsin





# Continuing Obligations for Environmental Protection

## Responsibilities of Wisconsin Property Owners

PUB-RR-819

August 2012

This fact sheet is intended to help property owners understand their legal requirements under s. 292.12, Wis. Stats., regarding continuing obligations that arise due to the environmental condition of their property.

The term “continuing obligations” refers to certain actions for which property owners are responsible following a completed environmental cleanup. They are sometimes called environmental land use controls or institutional controls. These legal obligations, such as a requirement to maintain pavement over contaminated soil, are most often found in a cleanup approval letter from the state.

Less commonly, a continuing obligation may apply where a cleanup is not yet completed but a cleanup plan has been approved, or at a property owned by a local government that is exempt from certain cleanup requirements.

### What Are Continuing Obligations?

Continuing obligations are legal requirements designed to protect public health and the environment in regard to contamination that remains on a property.

Continuing obligations still apply after a property is sold. Each new owner is responsible for complying with the continuing obligations.

## Background

Wisconsin, like most states, allows some contamination to remain after cleanup of soil or groundwater contamination (residual contamination). This minimizes the transportation of contamination and reduces cleanup costs while still ensuring that public health and the environment are protected.

The Department of Natural Resources (DNR), through its Remediation and Redevelopment (RR) Program, places sites or properties with residual contamination on a public database in order to provide notice to interested parties about the residual contamination and any associated continuing obligations. Please see the “Public Information” section on page 3 to learn more about the database. (Prior to June 3, 2006, the state used deed restrictions recorded at county courthouses to establish continuing obligations, and those deed restrictions have also been added into the database.)



## Types of Continuing Obligations

### 1. Manage Contaminated Soil that is Excavated

If the property owner intends to dig up an area with contaminated soil, the owner must ensure that proper soil sampling, followed by appropriate treatment or disposal, takes place. Managing contaminated soil must be done in compliance with state law and is usually done under the guidance of a private environmental professional.

### 2. Manage Construction of Water Supply Wells

If there is soil or groundwater contamination and the property owner plans to construct or reconstruct a water supply well, the owner must obtain prior DNR approval to ensure that well construction is designed to protect the water supply from contamination.

### Other Types of Continuing Obligations

Some continuing obligations are designed specifically for conditions on individual properties. Examples include:

- keeping clean soil and vegetation over contaminated soil;
- keeping an asphalt “cap” over contaminated soil or groundwater;
- maintaining a vapor venting system; and
- notifying the state if a structural impediment (e.g. building) that restricted the cleanup is removed. The owner may then need to conduct additional state-approved environmental work.

It is common for properties with approved cleanups to have continuing obligations because the DNR generally does not require removal of all contamination.

Property owners with the types of continuing obligations described above will find these requirements described in the state’s cleanup approval letter or cleanup plan approval, and *must*:

- comply with these property-specific requirements; and
- obtain the state’s permission before changing portions of the property where these requirements apply.

The requirements apply whether or not the person owned the property at the time that the continuing obligations were placed on the property.

## Changing a Continuing Obligation

A property owner has the option to modify a continuing obligation if environmental conditions change. For example, petroleum contamination can degrade over time and property owners may collect new samples showing that residual contamination is gone. They may then request that DNR modify or remove a continuing obligation. A fee is required for DNR’s review of this request (\$500 or \$750, depending on the nature of the request). Fees are subject to change; current fees are found in Chapter NR 749, Wis. Admin. Code, on the web at [www.legis.state.wi.us/rsb/code/nr/nr749.pdf](http://www.legis.state.wi.us/rsb/code/nr/nr749.pdf).

## Public Information

The DNR provides public information about continuing obligations on the Internet. This information helps property owners, purchasers, lessees and lenders understand legal requirements that apply to a property.

Properties with continuing obligations can generally be located in DNR's *GIS Registry*, part of the *RR Sites Map*. The information includes maps, deeds, contaminant data and the state's closure letter. The closure letter states that no additional environmental cleanup is needed for past contamination and includes information on property-specific continuing obligations. If a cleanup has not been completed, the state's approval of the remedial action plan will contain the information about continuing obligations.

However, some older cleanups may not be listed in the *GIS Registry*, so please consult DNR's comprehensive database of contaminated and cleaned up sites, *BRRTS on the Web*. This database shows all contamination activities known to DNR.

*BRRTS on the Web* and  
*RR Sites Map* are part of  
**CLEAN**  
(the Contaminated Lands  
Environmental Action Network) at  
[dnr.wi.gov/topic/Brownfields/clean.html](http://dnr.wi.gov/topic/Brownfields/clean.html)

If a completed cleanup is shown in *BRRTS on the Web* but the site documents can not be found in the *GIS Registry*, DNR's closure letter can still be obtained from a regional office. For assistance, please contact a DNR Environmental Program Associate (see the RR Program's Staff Contact web page at [dnr.wi.gov/topic/Brownfields/Contact.html](http://dnr.wi.gov/topic/Brownfields/Contact.html)).

## Off-Site Contamination: When Continuing Obligations Cross the Property Line

An off-site property owner is someone who owns property that has been affected by contamination that moved through soil, sediment or groundwater from another property. Wisconsin law, s. 292.13, Wis. Stats., provides an exemption from environmental cleanup requirements for owners of "off-site" properties. The DNR will generally not ask off-site property owners to investigate or clean up contamination that came from a different property, as long as the off-site owner allows access to his or her property so that others who are responsible for the contamination may complete the cleanup.

However, off-site property owners are legally obligated to comply with continuing obligations on their property, even though they did not cause the contamination. For example, if the state approved a cleanup where the person responsible for the contamination placed clean soil over contamination on an off-site property, the owner of the off-site property must either keep that soil in place or obtain state approval before disturbing it.

Property owners and others should check the *Public Information* section above if they need to:

- determine whether and where continuing obligations exist on a property;
- review the inspection, maintenance and reporting requirements, and
- contact the DNR regarding changing that portion of the property. The person to contact is the person that approved the closure or remedial action plan.

## Option for an Off-Site Liability Exemption Letter

In general, owners of off-site properties have a legal exemption from environmental cleanup requirements. This exemption does not require a state approval letter. Nonetheless, they may request a property-specific liability exemption letter from DNR if they have enough information to show that the source of the contamination is not on their property. This letter may be helpful in real estate transactions. The fee for this letter is \$500 under Chapter NR 749, Wis. Adm. Code. For more information about this option, please see the RR Program's Liability web page at [dnr.wi.gov/topic/Brownfields/Liability.html](http://dnr.wi.gov/topic/Brownfields/Liability.html).

### Legal Obligations of Off-Site Property Owners

- Allow access so the person cleaning up the contamination may work on the off-site property (unless the off-site owner completes the cleanup independently).
- Comply with any required continuing obligations on the off-site property.

## Required Notifications to Off-Site Property Owners

1. The person responsible for cleaning up contamination must notify affected off-site property owners of any proposed continuing obligations on their off-site property **before** asking the DNR to approve the cleanup. This is required by law and allows the off-site owners to provide the DNR with any technical information that may be relevant to the cleanup approval.

When circumstances are appropriate, an off-site neighbor and the person responsible for the cleanup may enter into a "legally enforceable agreement" (i.e. a contract). Under this type of private agreement, the person responsible for the contamination may also take responsibility for maintaining a continuing obligation on an off-site property. This agreement would not automatically transfer to future owners of the off-site property. The state is not a party to the agreement and can not enforce it.

2. If a cleanup proposal that includes off-site continuing obligations is approved, DNR will send a letter to the off-site owners detailing the continuing obligations that are required for their property. Property owners should inform anyone interested in buying their property about maintaining these continuing obligations. For residential property, this would be part of the real estate disclosure obligation.

## More Information

For more information, please visit the RR Program's Continuing Obligations web site at [dnr.wi.gov/topic/Brownfields/Residual.html](http://dnr.wi.gov/topic/Brownfields/Residual.html).

For more information about DNR's Remediation and Redevelopment Program, see our web site at [dnr.wi.gov/org/aw/rr/](http://dnr.wi.gov/org/aw/rr/). This document contains information about certain state statutes and administrative rules but does not include all of the details found in the statutes and rules. Readers should consult the actual language of the statutes and rules to answer specific questions.

The Wisconsin Department of Natural Resources provides equal opportunity in its employment, programs, services, and functions under an Affirmative Action Plan. If you have any questions, please write to Equal Opportunity Office, Department of Interior, Washington, D.C. 20240. This publication is available in alternative format upon request. Please call 608-267-3543 for more information.



## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor  
Scott Hassett, Secretary  
John Gozdziwski, Regional Director

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

July 21, 2006

Enbridge Energy  
Attn: Paul Meneghini  
119 N 25<sup>th</sup> St E  
Superior, WI 54880

06/04/2013: Case Reopened.  
GIS Registry Packet Updated  
Final Closure Letter - October 15, 2013

Subject: Final Case Closure By Closure Committee with Conditions Med  
Enbridge Energy Field Booster Pump 56, 2800 E 21<sup>st</sup> Ave,  
Superior, Wisconsin  
BRRTS # 02-16-338051

Dear Mr. Meneghini:

On December 20, 2005, the Northern 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 February 9, 2006, you were notified that the Closure Committee had granted conditional closure to this case.

On July 14, 2006, the Department received correspondence indicating that you have complied with the requirements of closure. Based on the correspondence and data provided, it appears that your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code. The Department considers this case closed and no further investigation, remediation or other action is required at this time.

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 sites on the GIS Registry web page, visit <http://dnr.wi.gov/org/aw/rr/gis/index.htm>. If your property is listed on the GIS Registry and you intend to construct or reconstruct a well, you will need Department approval. Department approval is required before construction or reconstruction of a well on a property listed on the GIS Registry, in accordance with s. NR 812.09(4)(w). 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://www.dnr.state.wi.us/org/water/dwg/3300254.pdf> or at the web address listed above for the GIS Registry.

Please be aware that this 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 the environment.

The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at 715-365-8990.

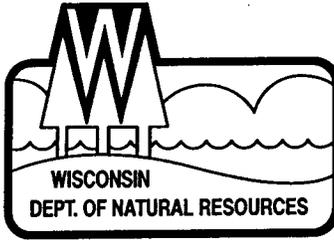
Sincerely,  
NORTHERN REGION

A handwritten signature in black ink that reads "Janet Kazda". The signature is written in a cursive, flowing style.

Janet Kazda  
Remediation and Redevelopment Program

cc: File  
Jim Hosch, Superior

Barry Power  
Natural Resources Engineering Co  
69 N 28<sup>th</sup> St, Suite 27  
Superior, WI 54880



## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor  
Scott Hassett, Secretary  
John Gozdzialski, Regional Director

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

February 9, 2006

Mr. Paul Meneghini  
Enbridge Pipelines LLC  
119 N 25<sup>th</sup> St East  
Superior, WI 54880

Subject: Conditional Closure Decision with Requirements to Achieve Final Closure  
Superior Terminal Field Booster Pump 56, 2800 E 21<sup>st</sup> Ave, Superior, WI  
WDNR BRRTS Activity # 02-16-338051

Dear Mr. Meneghini:

On December 20, 2005, the Northern Region Closure Committee reviewed your request for closure of the case described above. The Closure Committee reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. After careful review of the closure request, the Closure Committee has determined that the crude oil contamination 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:

1. The monitoring wells at the site must be properly abandoned in compliance with ch. NR 141, Wis. Adm. Code. Documentation of well abandonment must be submitted to me on Form 3300-5B 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.
2. The following items were missing from the GIS Registry packet: a. A County Parcel ID# for the contaminated parcel; b. A groundwater flow direction/monitoring well location map. Please submit these items to me at the above address.

When the above conditions have been satisfied, please submit a letter to let me know 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 715-365-8990.

Sincerely,  
NORTHERN REGION

A handwritten signature in cursive script that reads "Janet Kazda".

Janet Kazda  
Remediation and Redevelopment Program

cc: File

Barry Power  
NREC  
69 N 28<sup>th</sup> St  
Superior, WI 54880

DEED

409027

THIS INDENTURE, MADE BY INTERSTATE OIL PIPE LINE COMPANY

a Delaware corporation, hereby quitclaims to the LAKEHEAD PIPE LINE COMPANY, INC., a Delaware corporation duly authorized to do business in the State of Wisconsin, Grantee, for the sum of One Dollar (\$1.00) and other good and valuable considerations, the receipt of which is hereby acknowledged, the following described real estate situated in Douglas County, State of Wisconsin, to-wit:

A parcel of land in the City of Superior, contained in the plat of Southwestern Division, in the Townsite of Superior, particularly described as follows: Commencing at the center of Section Thirty-six (36) in Township Forty-nine (49) North of Range Fourteen (14) West; thence westerly thirty-three (33.0) feet on the East-West centerline of Section Thirty-six (36) which is the point of beginning; thence North a distance of One Thousand One Hundred Fifty-nine and 35/100 (1159.35) feet; thence Southwesterly at an angle of Forty-eight degrees thirty-six minutes (48°36') from South to West a distance of One Thousand Seven Hundred Sixty and 55/100 (1760.55) feet; thence Easterly at an angle of Eighty-nine degrees Forty-seven and one-half minutes (89°47.5') from North to East a distance of One Thousand Three Hundred Twenty and 61/100 (1320.61) feet to the point of beginning.

- All of Block 13
- subject to the easement granted the Northern Pacific Railroad Co. for a right of way for its railroad on Newton Ave.
- All of Block 14
- Southeast 1/2 Block 15
- Northeast 1/2 Block 15
- West 1/2 Block 15
- Southwest 1/2 Block 15
- North 1/2 Block 16
- Southeast 1/2 Block 16
- North 1/2 Block 16
- Southeast 1/2 Block 17
- Southeast 1/2 Block 17
- All of Block 17
- All of Block 18
- All of Fr. Block 19
- All of Block 20
- All of Block 21
- All of Block 22
- West 1/2 Block 23
- East 1/2 Block 24
- North 1/2 Block 24
- Southeast 1/2 Block 25
- All of Block 26
- East 1/2 Block 27
- West 1/2 Block 27
- East 1/2 Block 27
- West 1/2 Block 27

East part lying East of the East line of Wisconsin Central Railway Company's right of way of Block 28 all on West Thirty-first Street

Northwest  $\frac{1}{4}$  subject to the easement granted the Northern Pacific Railroad Co. for a right of way for its railroad on Newton Ave. Block 13

South  $\frac{1}{4}$  subject to the easement granted the Northern Pacific Railroad Co. for a right of way for its railroad on Newton Ave. Block 13

Northeast  $\frac{1}{4}$  except r/w Fr. Block 13  
All, except r/w Fr. Block 14

All of Block 15

North  $\frac{1}{4}$  Block 16

South  $\frac{1}{4}$  Block 16

All of Block 17

Southeast  $\frac{1}{4}$  Block 18

North  $\frac{1}{4}$  Block 18

Southwest  $\frac{1}{4}$  Block 18

All of Block 19

All of Block 20

All of Block 21

All of Block 22

That part of the South  $\frac{1}{4}$  lying East of the East line of Wisconsin Central Railway Company's right of way of Block 23

North  $\frac{1}{4}$  Block 23

That part lying East of the East line of Wisconsin Central Railway Company's right of way of Block 24

Northeast  $\frac{1}{4}$ , E'ly. of E'ly. line of W. C. Ry. r/w Block 25

all on West Thirty-third street

South  $\frac{1}{4}$  subject to the easement granted the Northern Pacific Railroad Co. for a right of way for its railroad on Newton Ave. Block 13

All of subject to the easement granted the Northern Pacific Railroad Co. for a right of way for its railroad on Newton Ave. Block 14

All of Block 15

All of Block 16

All of Block 17

Southwest  $\frac{1}{4}$  Block 15

Northeast  $\frac{1}{4}$  Block 18

South  $\frac{1}{4}$  Block 18

East  $\frac{1}{4}$  Block 19

West  $\frac{1}{4}$  Block 19

That part of the North  $\frac{1}{4}$  lying East of the East line of Wisconsin Central Railway Company's right of way of Block 20

That part of the Southwest  $\frac{1}{4}$  lying East of the East line of Wisconsin Central Railway Company's right of way of Block 20

Southeast 1/4	Block 20
That part lying East of the East line of Wisconsin Central Railway Company's right of way of	Block 21
all on West Thirty-fifth Street	
All of	Block 13
subject to the easement granted the Northern Pacific Railroad Co. for a right of way for its railroad on Newton Ave.	
All of	Block 14
North 1/4	Block 15
West 1/4 of the Southwest 1/4	Block 15
East 1/4 of the Southwest 1/4	Block 15
All of	Block 16
Southeast 1/4	Block 17
North 1/4	Block 17
Southwest 1/4 except r/w	Block 17
That part lying East of the East line of Wisconsin Central Railway Company's right of way of	Block 18
That part lying East of the East line of Wisconsin Central Railway Company's right of way of	Block 19
all on West Thirty-seventh Street	
All of	Block 13
subject to the easement granted the Northern Pacific Railroad Co. for a right of way for its railroad on Newton Ave.	
That part of the West 1/4 lying East of the East line of Wisconsin Central Railway Company's right of way of	Block 14
That part lying East of the East line of Wisconsin Central Railway Company's right of way of	Block 15
all on West Thirty-ninth Street	
That part lying East of the East line of Wisconsin Central Railway Company's right of way, subject to the easement granted the Northern Pacific Railroad Company for a right of way for its railroad on Newton Avenue of	Block 13
on West Forty-first Street	
All of	Block 3
All of	Block 4
all on East Nineteenth Street	
All of	Block 3
Northeast 1/4	Block 4
Northwest 1/4	Block 4
Southeast 1/4	Block 4
all on East Twenty-first Street	



WITNESS the corporate name and seal of said Grantor hereunto affixed by authority of its board of Directors on this \_\_\_\_\_ day of \_\_\_\_\_, 1911.

IN WITNESS WHEREOF I have hereunto set my hand and official seal.

by: *Joseph P. Bunker*  
Joseph P. Bunker  
Notary Public

IN THE PRESENCE OF:

*Frank R. Clark, Jr.*  
Frank R. Clark, Jr.

by: *P. H. Hunter*  
P. H. Hunter  
Notary Public

\*\*\*

STATE OF Louisiana }  
COUNTY OF \_\_\_\_\_ } ss:

On this the \_\_\_\_\_ day of \_\_\_\_\_, 1911, before me, the undersigned Notary Public in and for \_\_\_\_\_ Parish, \_\_\_\_\_ County, State of \_\_\_\_\_, personally appeared \_\_\_\_\_ and \_\_\_\_\_, who respectively acknowledged themselves to be officers, to wit: \_\_\_\_\_ and \_\_\_\_\_ of INDIAN OIL PIPE LINE COMPANY, a corporation, the Grantor in the foregoing instrument, and they as aforesaid officers being authorized to do so, executed the foregoing instrument for the purposes therein contained by affixing the seal of said corporation by the selves or each of them and affixing the corporate seal, with the authority of the board of directors of said corporation.

IN WITNESS WHEREOF I have hereunto set my hand and official seal.

*Mary J. ...*  
Notary Public,  
State of \_\_\_\_\_  
My Commission Expires \_\_\_\_\_  
\_\_\_\_\_

409027

OFFICE OF REGISTER OF DEEDS  
DODGE COUNTY, WISCONSIN

RECORDED IN BOOK 2582  
PAGE 238  
DATE 12/10/82  
BY *Beards*  
*Denning*

Deputy

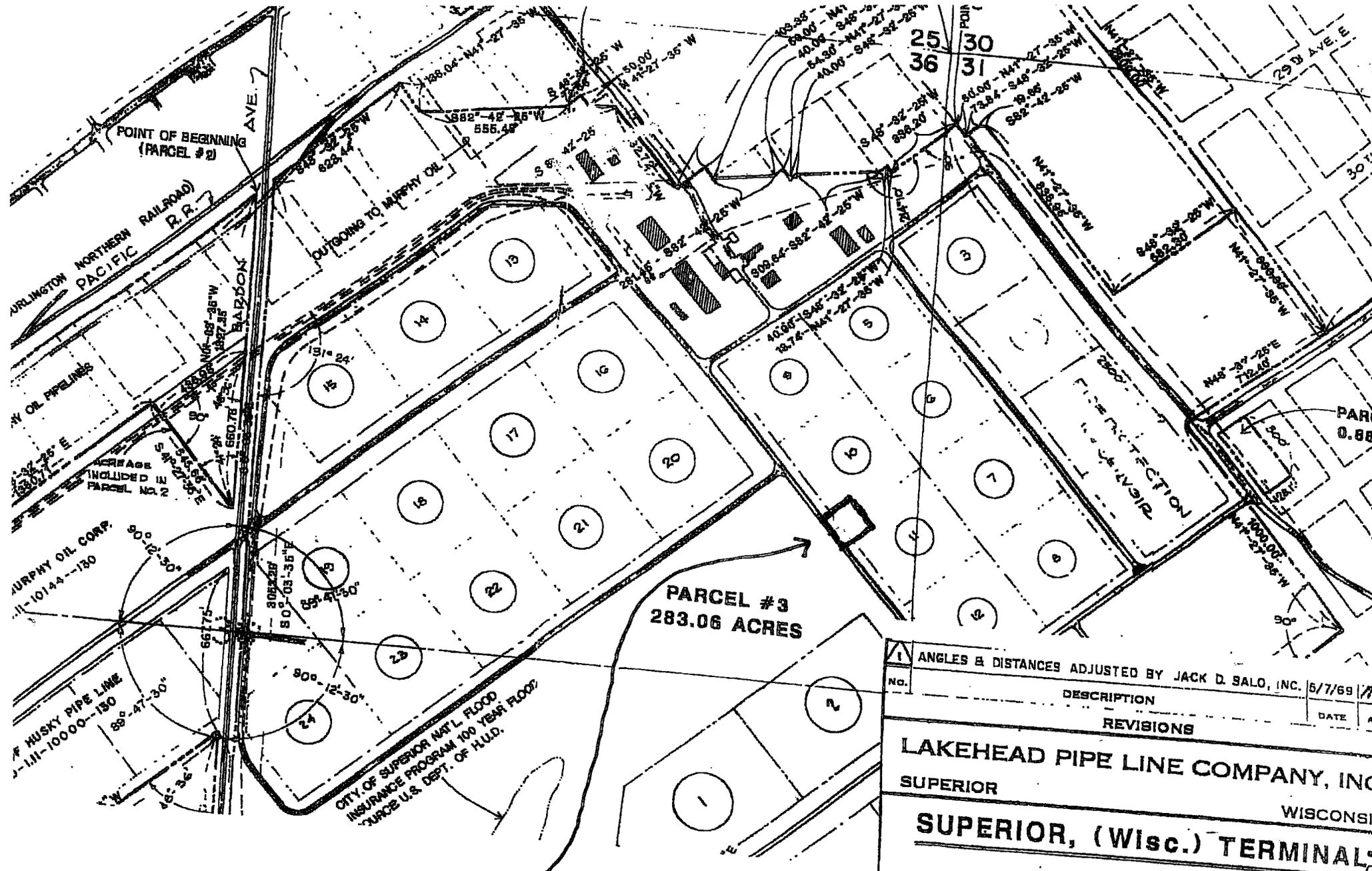
QUIT - BLACK NEED

INTERESTS OIL AND GAS GRANTS

-to-

LAURENCE LISA LISA GRANT, JR.

*Handwritten notes:*  
2/24  
See schedule 12/1/80  
to be set aside



**PARCEL #3**  
283.06 ACRES

*Site Location  
(Booster Pump 56)  
(Parcel 3B)*

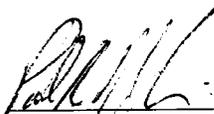
1 ANGLES & DISTANCES ADJUSTED BY JACK D. SALO, INC. 6/7/69		DATE	6/7/69
No.	DESCRIPTION		DATE
REVISIONS			
LAKEHEAD PIPE LINE COMPANY, INC.			WISCONSIN
SUPERIOR			
<b>SUPERIOR, (Wisc.) TERMINAL</b>			
<b>STATION AREA</b>			
DRAWN	H. R. O.	SCALE	1" = 400'
CHECKED		APPROVED	DATE 2/2/61
PARCELS 1-6 1891 UPDATE			DATE 11/10/01

Enbridge Pipelines (Lakehead), L.L.C  
119 N 25<sup>th</sup> Street East  
Superior, Wisconsin 54880

I, \_\_\_\_\_, believe that the contaminated area located at the Enbridge Superior Terminal is located within the legal description described below:

Commencing at the Northeast corner of Section 36. Thence southerly along the east boundary of Section 36 to the centerline of vacated West 18<sup>th</sup> Street, thence southeasterly along the centerline of vacated West 18<sup>th</sup> Street to the north boundary of vacated 28<sup>th</sup> Avenue East, thence southwesterly along the north boundary of vacated 28<sup>th</sup> Avenue East to its junction with the westerly boundary of vacated West 18<sup>th</sup> Street being the point of beginning; thence S 41 degrees 27 minutes 3 seconds E along the westerly boundary of vacated West 18<sup>th</sup> Street a distance of 2500 feet to a point on the north line of 33<sup>rd</sup> Avenue East; thence S 48 degrees 32 minutes 25 seconds W along the north line of 33<sup>rd</sup> Avenue East a distance of 2206.96 feet to a point on the easterly line of Section 36; thence S 0 degrees 18 minutes 25 seconds W along the easterly line of Section 36 a distance of 670.62 feet more or less to the north boundary of the Nemadji River; thence N 69 degrees 38 minutes 05 seconds W along the north boundary of the Nemadji River a distance of 652.53 feet to a point thence N 51 degrees 44 minutes 40 seconds W along the north boundary of the Nemadji River a distance of 127.93 feet to a point ; thence N 68 degrees 02 minutes 45 seconds W along the north boundary of the Nemadji River a distance of 160.75 feet to a point; thence N43o49'20"W a distance of 188.00 feet to a point; thence S 89 degrees 59 minutes 55 seconds W a distance of 1627.00 feet to a point on the east boundary of Bardon Avenue; thence N 0 degrees 03 minutes 35 seconds W along the east boundary of Bardon Avenue a distance of 2386.72 feet to a point on the south line of 26<sup>th</sup> Avenue East; thence N 48 degrees 32 minutes 2 seconds E for a distance of 1350 feet to a point; thence, South 41 degrees 0 minutes 0 seconds East for a distance of 1,820 feet to the point of beginning for a tract of land known as "Parcel 3B"; thence, North 41 degrees 0 minutes 0 seconds East for a distance of 160 feet to a point; thence, South 41 degrees 0 minutes 0 seconds East for a distance of 225 feet to a point; thence, South 41 degrees 0 minutes 0 seconds West for a distance of 160 feet to a point; thence, North 41 degrees 0 minutes 0 seconds West for a distance of 225 feet to the point of beginning of Parcel 3B; Parcel 3B containing 0.826 acres, more or less; all of Parcel 3B being within the North one-half (N 1/2) of Section 36, Township 49 North, Range 13 West, Douglas County, State of Wisconsin.

Geographic position coordinates: 362710 692342

  
\_\_\_\_\_  
Signature

Paul R. Menghini / Enbridge

10/28/05  
\_\_\_\_\_  
Date





**Legend**

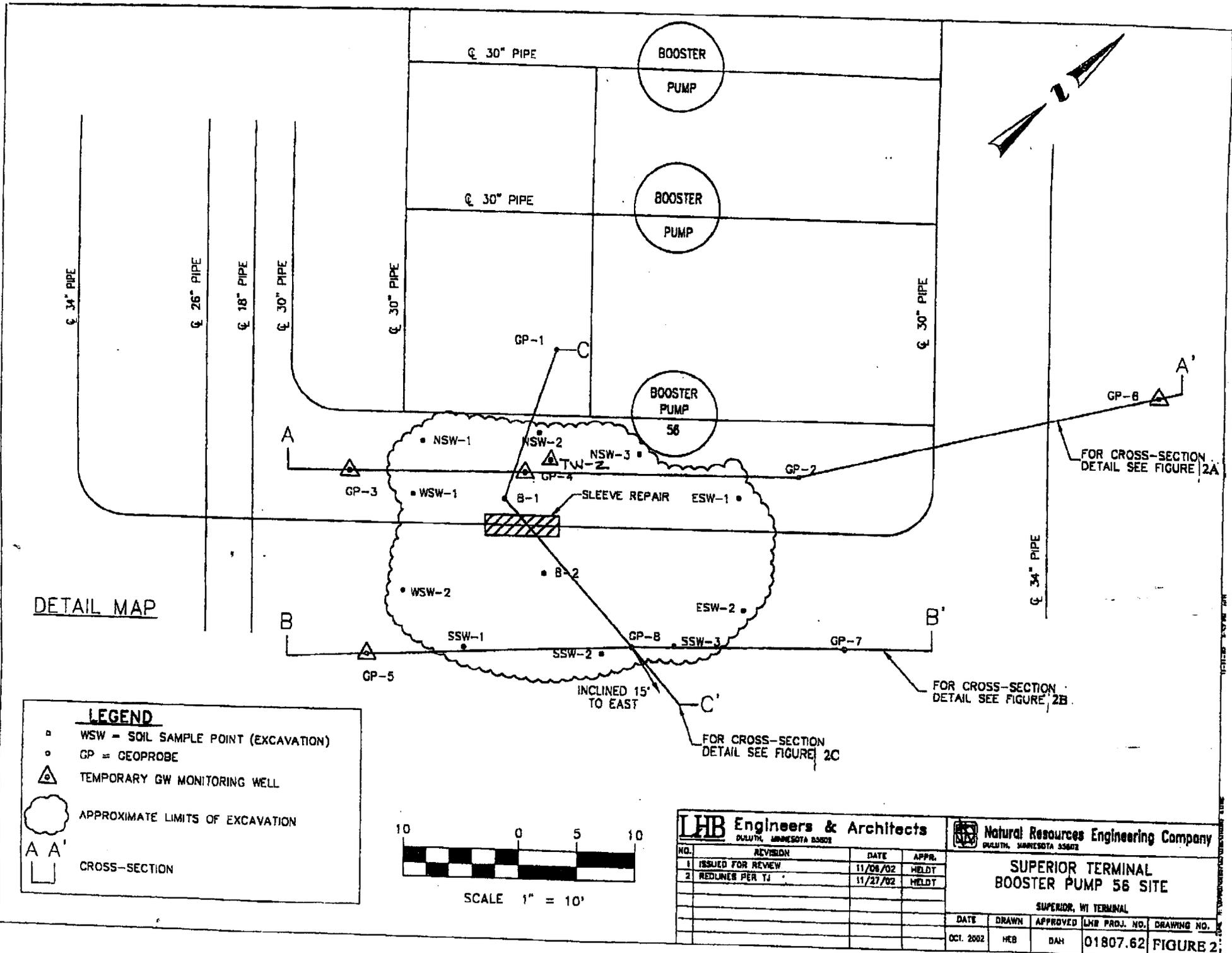
- Groundwater Elevation (NGVD)
- Piezometric Contour

**ENBRIDGE™**

**Enbridge Pipelines (Lakehead), L.L.C.**  
**Figure 5: Groundwater Flow Regime (July 2005)**



DATE ISSUED: 10/7/2005	
DATE REVISED:	
SCALE: 1:900	
DRAWN BY: PRS	
FILE: Figure 5 - Groundwater Flow BP56.pdf	



DETAIL MAP

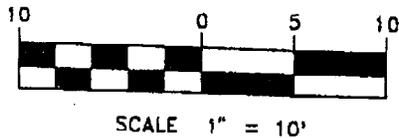
FOR CROSS-SECTION  
DETAIL SEE FIGURE 2A

FOR CROSS-SECTION  
DETAIL SEE FIGURE 2B

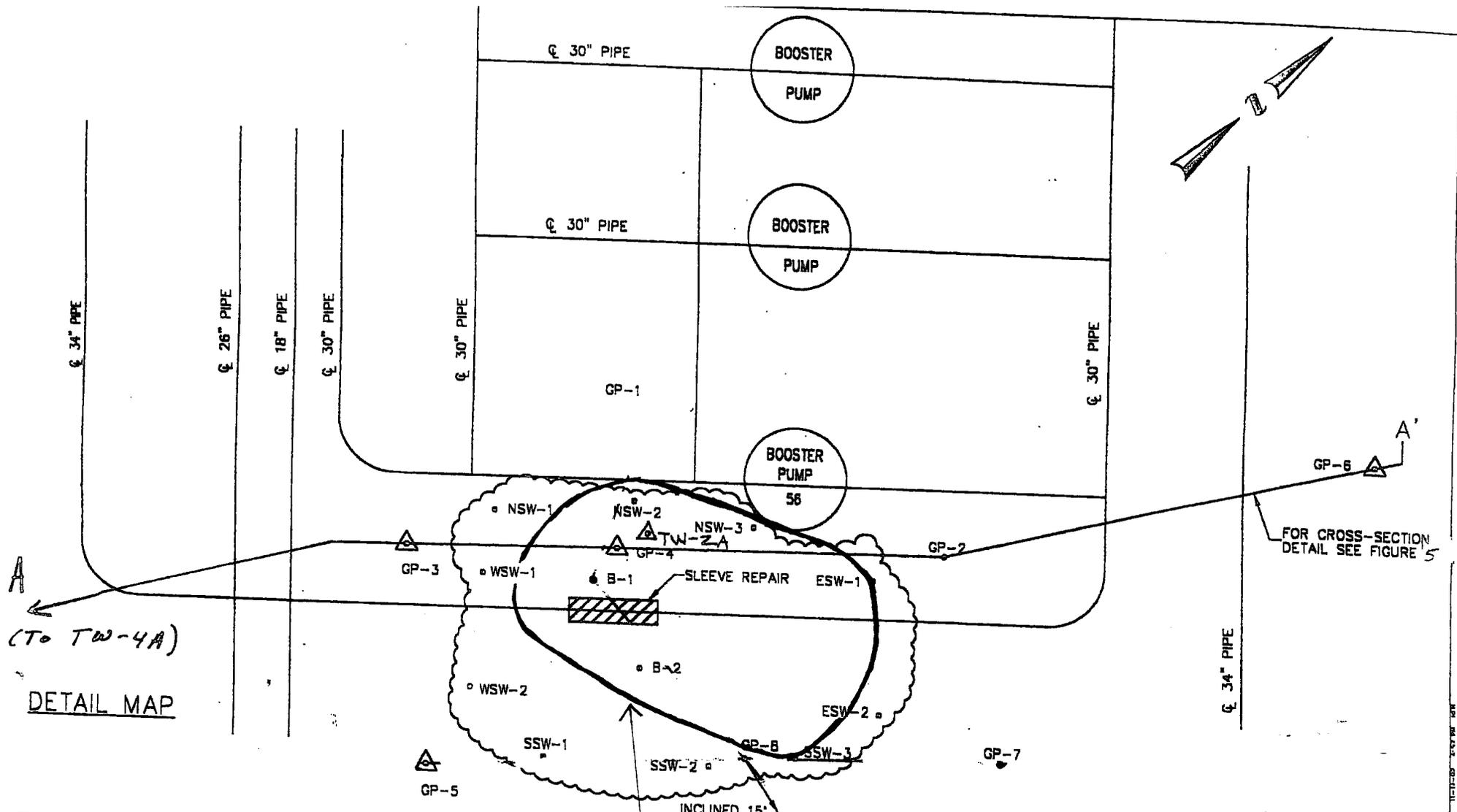
FOR CROSS-SECTION  
DETAIL SEE FIGURE 2C

**LEGEND**

- ◻ WSW - SOIL SAMPLE POINT (EXCAVATION)
- ◻ GP = GEOPROBE
- △ TEMPORARY GW MONITORING WELL
- APPROXIMATE LIMITS OF EXCAVATION
- A A' CROSS-SECTION



<b>LHB Engineers &amp; Architects</b> <small>DULUTH, MINNESOTA 55802</small>		<b>Natural Resources Engineering Company</b> <small>DULUTH, MINNESOTA 55802</small>	
NO.	REVISION	DATE	APPR.
1	ISSUED FOR REVIEW	11/28/02	HELDY
2	REDLINES PER TJ	11/27/02	HELDY
<b>SUPERIOR TERMINAL BOOSTER PUMP 56 SITE</b>			
<small>SUPERIOR, WI TERMINAL</small>			
DATE	DRAWN	APPROVED	LHB PROJ. NO. DRAWING NO.
OCT. 2002	HEB	DAH	01807.62 FIGURE 2

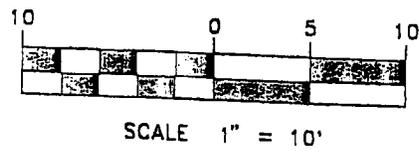


A  
(To TW-4A)  
DETAIL MAP

FOR CROSS-SECTION  
DETAIL SEE FIGURE 5

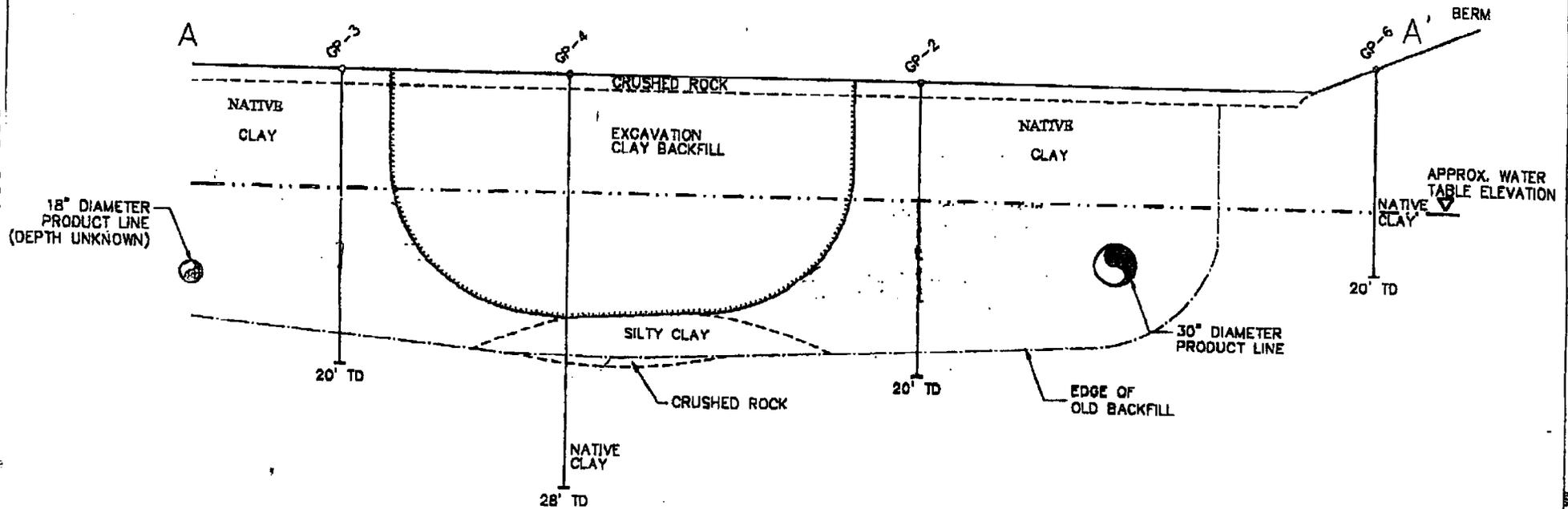
**LEGEND**

- WSW = SOIL SAMPLE POINT (EXCAVATION)
- GP = GEOPROBE
- △ TEMPORARY GW MONITORING WELL
- ☁ APPROXIMATE LIMITS OF EXCAVATION
- AA' CROSS-SECTION



Approximate Lateral Extent  
of NR 720 Exceeding Soil

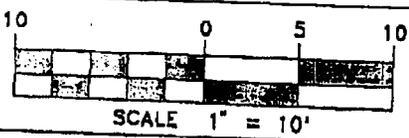
<b>LHB Engineers &amp; Architects</b> DULUTH, MINNESOTA 55802			<b>Natural Resources Engineering Company</b> DULUTH, MINNESOTA 55802		
NO.	REVISION	DATE	APPR.		
1	ISSUED FOR REVIEW	11/08/02	HELOT		
2	REDLINES PER TJ	11/27/02	HELOT		
			<b>SUPERIOR TERMINAL BOOSTER PUMP 56 SITE</b>		
			SUPERIOR, WI TERMINAL		
DATE	DRAWN	APPROVED	LHB PROJ. NO.	DRAWING NO.	
OCT. 2002	HEB	DAH	01807.62	FIGURE 3	



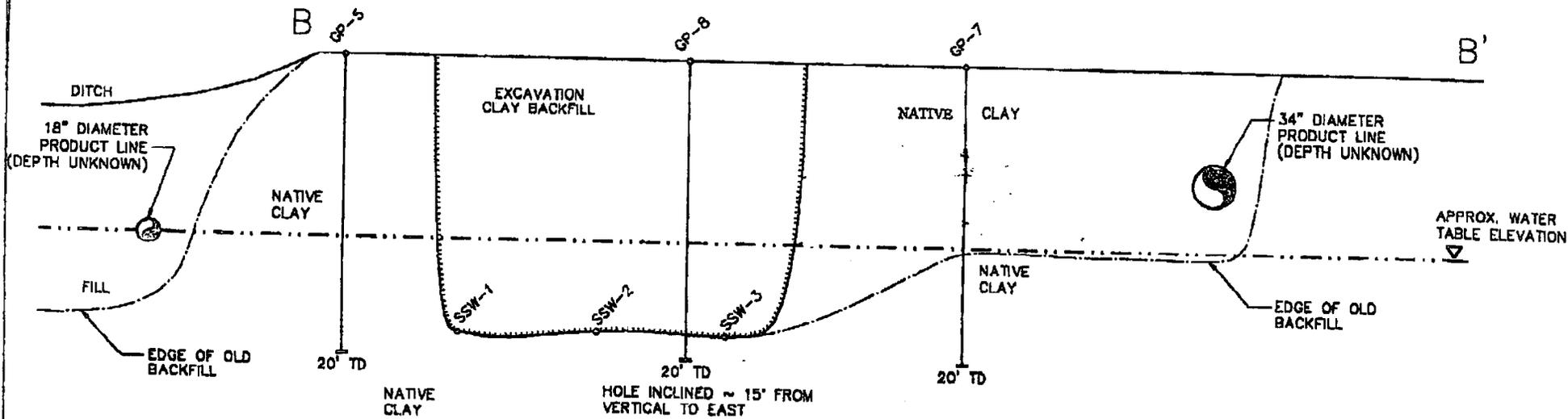
SECTION A-A'

**LEGEND**

- WSW - SOIL SAMPLE POINT (EXCAVATION)
- GP - GEOPROBE
- △ TEMPORARY GW MONITORING WELL
- - - APPROXIMATE LIMITS OF EXCAVATION
- EDGE OF OLD BACKFILL



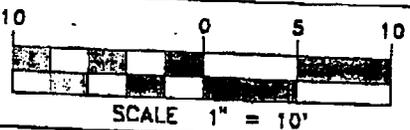
<b>LHB Engineers &amp; Architects</b> <small>DULUTH, MINNESOTA 55802</small>				<b>Natural Resources Engineering Company</b> <small>DULUTH, MINNESOTA 55802</small>	
NO.	REVISION	DATE	APPR.	<b>CROSS SECTION A - A'</b> <b>SUPERIOR TERMINAL</b> <b>BOOSTER PUMP 56</b> SUPERIOR, WI TERMINAL	
1	ISSUED FOR REVIEW	11/13/02	HELDY		
2	REDLINES PER TJ	11/27/02	HELDY	DATE	DRAWN
				OCT. 2002	HEB
				APPROVED	DAH
				LHB PROJ. NO.	DRAWING NO.
				01807.62	FIGURE 2A



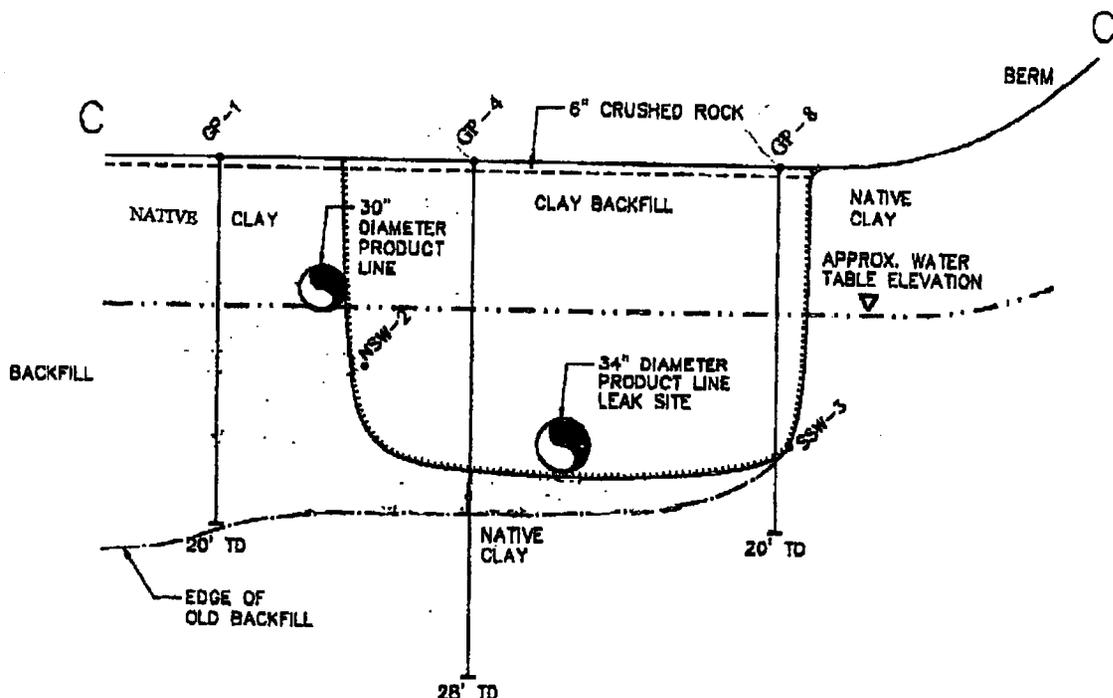
SECTION B-B'

**LEGEND**

- WSW = SOIL SAMPLE POINT (EXCAVATION)
- GP = GEOPROBE
- △ TEMPORARY GW MONITORING WELL
- APPROXIMATE LIMITS OF EXCAVATION
- EDGE OF OLD BACKFILL



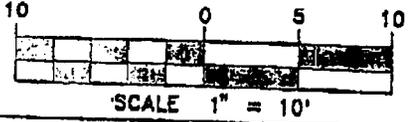
<b>LHB Engineers &amp; Architects</b> <small>DULUTH, MINNESOTA 55802</small>				<b>Natural Resources Engineering Company</b> <small>DULUTH, MINNESOTA 55802</small>				
NO.	REVISION	DATE	APPR.	<b>CROSS SECTION B - B'</b> <b>SUPERIOR TERMINAL</b> <b>BOOSTER PUMP 56 SITE</b> SUPERIOR, WI TERMINAL				
1	ISSUED FOR REVIEW	11/15/02	HELD.T					
2	REDUNES PER TJ	11/27/02	HELD.T	DATE	DRAWN	APPROVED	LHS PROJ. NO.	DRAWING NO.
				OCT. 2002	HEB	DAH	01807.62	FIGURE 2B



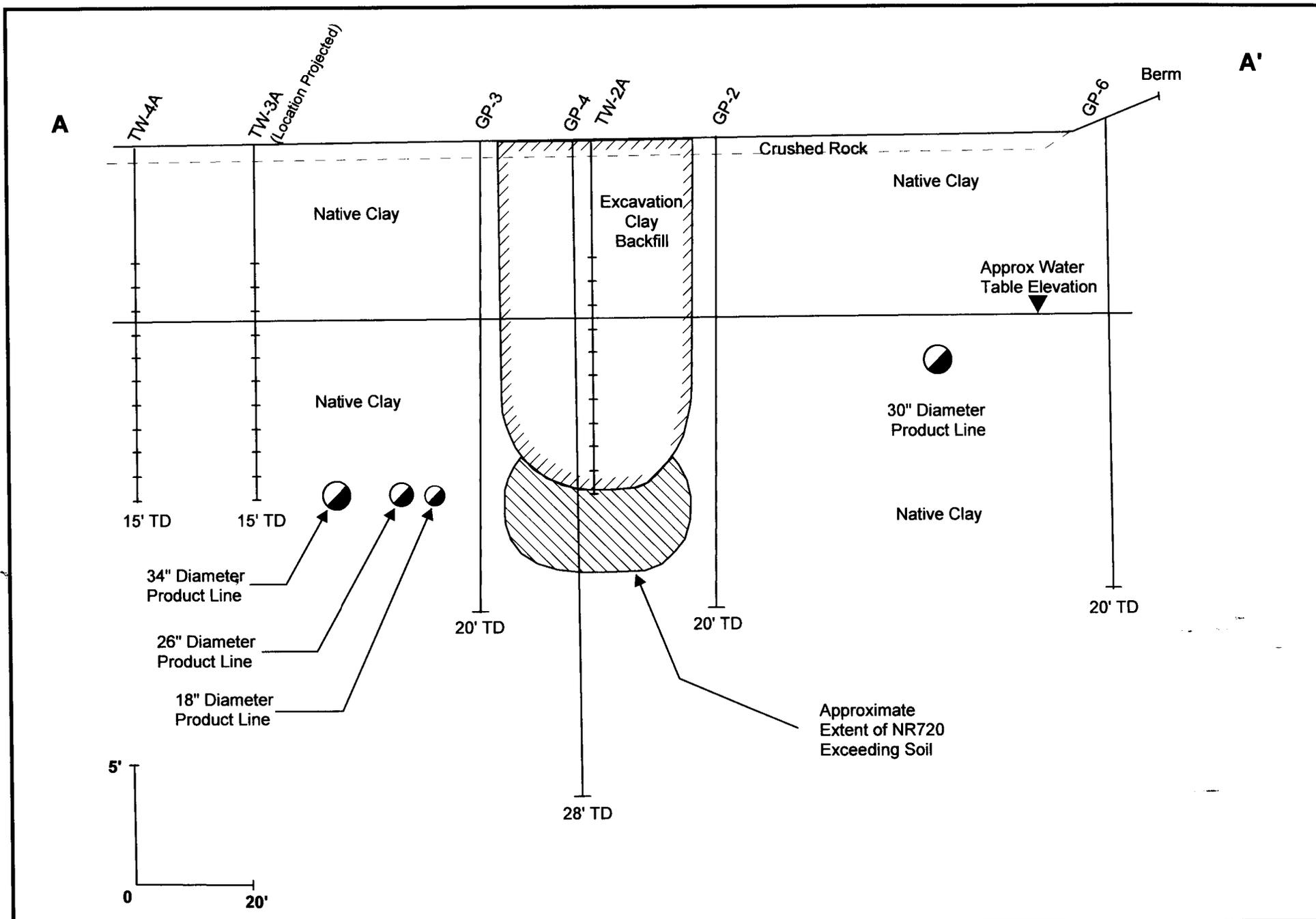
SECTION C-C'

**LEGEND**

- WSW = SOIL SAMPLE POINT (EXCAVATION)
- GP = GEOPROBE
- △ TEMPORARY GW MONITORING WELL
- APPROXIMATE LIMITS OF EXCAVATION
- EDGE OF OLD BACKFILL



<b>LHB Engineers &amp; Architects</b> <small>DULUTH, MINNESOTA 55802</small>			<b>Natural Resources Engineering Company</b> <small>DULUTH, MINNESOTA 55802</small>		
NO.	REVISION	DATE	APPR.	<b>CROSS SECTION C - C'</b> <b>SUPERIOR TERMINAL</b> <b>BOOSTER PUMP 56 SITE</b> <small>SUPERVISOR IN TERMINAL</small>	
1	ISSUED FOR REVIEW	11/18/02	HELOT		
2	REQUIRES PER TJ	11/27/02	HELOT		
				DATE	DRAWN
				OCT 2002	HEB
				APPROVED	DAM
				LHB PROJ. NO.	DRAWING NO.
				01807.62	FIGURE 2C

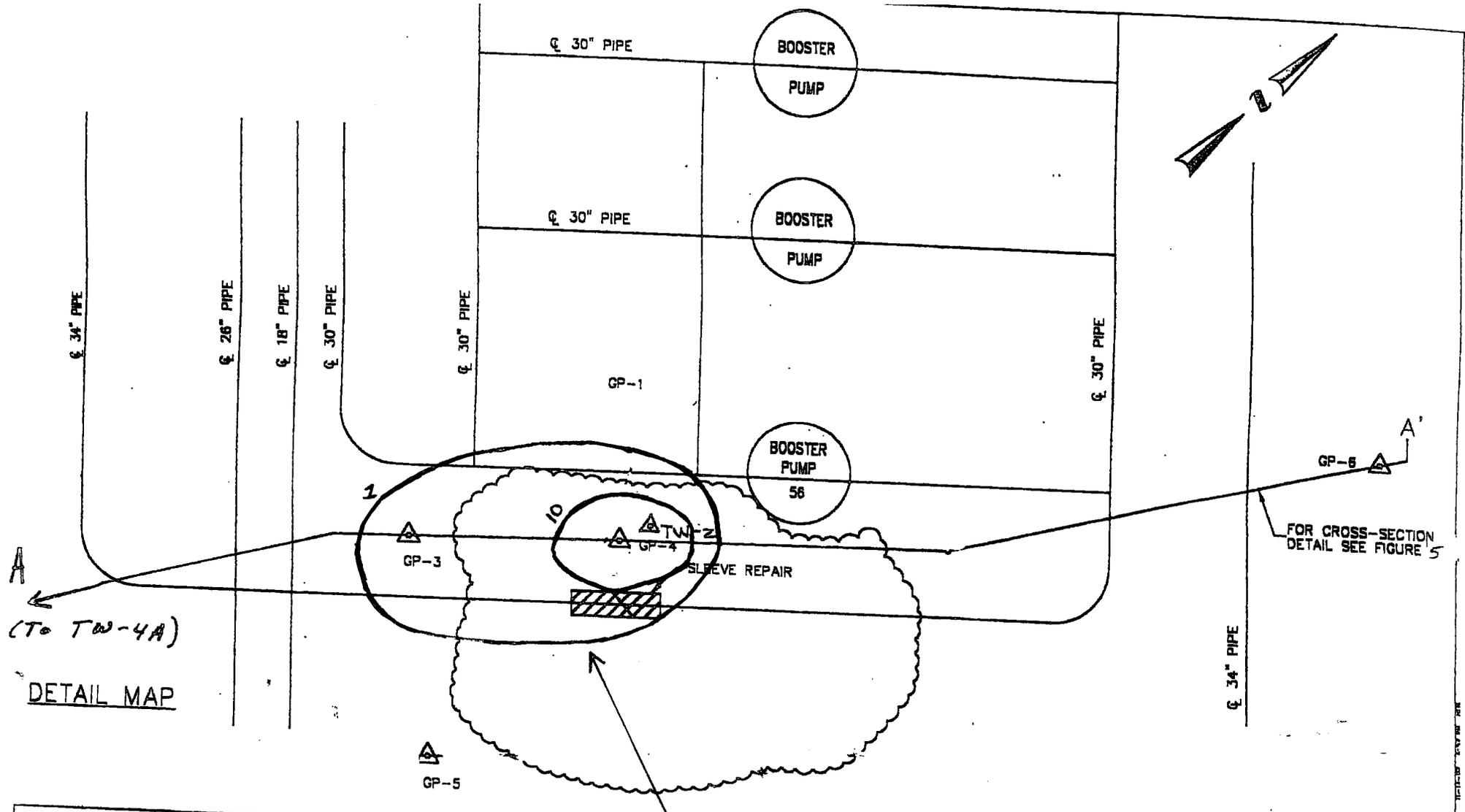


**Enbridge Pipelines (Lakehead), L.L.C.**

Figure 6: Cross-Section A - A'  
Superior Terminal - Booster Pump 56

**ENBRIDGE™**

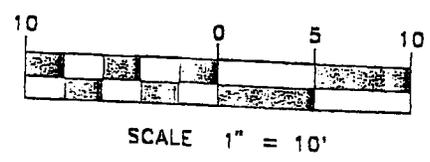
DATE ISSUED: 10/13/2005	
DATE REVISED:	
SCALE: As Shown	
DRAWN BY: PRS	
FILE: Figure 6 Cross-Section BP56.pdf	



A  
(To TW-4A)  
DETAIL MAP

**LEGEND**

- TEMPORARY GW MONITORING WELL
- APPROXIMATE LIMITS OF EXCAVATION
- CROSS-SECTION



Dissolved Phase Benzene  
Isoconcentration Contours ( $\mu\text{g/l}$ )

<b>LHB Engineers &amp; Architects</b> <small>DULUTH, MINNESOTA 55802</small>				<b>Natural Resources Engineering Company</b> <small>DULUTH, MINNESOTA 55802</small>	
NO.	REVISION	DATE	APPR.	<b>SUPERIOR TERMINAL BOOSTER PUMP 56 SITE</b>	
1	ISSUED FOR REVIEW	11/08/02	HJDT		
2	RECLINER PER TJ	11/27/02	HJDT	SUPERIOR, WI TERMINAL	
				DATE	DRAWN
				OCT. 2002	HEB
				APPROVED	DAH
				LHB PROJ. NO.	01807.62
				DRAWING NO.	FIGURE 6

**Table 2: Soil Sampling Results - Excavation and Push Probe Investigation**  
**Enbridge Pipelines (Lakehead), L.L.C. - Superior Terminal Field Booster Pump 56**

Location	Date	Benzene (ug/kg)	Ethylbenzene (ug/kg)	Methyl-tert-butyl-ether (ug/kg)	Toluene (ug/kg)	1,3,5-Trimethylbenzene (ug/kg)	1,2,4-Trimethylbenzene (ug/kg)	Xylenes (total) (ug/kg)	DRO (mg/kg)	Acenaphthene (ug/kg)	Acenaphthylene (ug/kg)	Anthracene (ug/kg)	Benzo (a) anthracene (ug/kg)	Benzo (a) pyrene (ug/kg)	Benzo (b) fluoranthene (ug/kg)	Benzo (g,h,i) perylene (ug/kg)	Benzo (k) fluoranthene (ug/kg)	Chrysene (ug/kg)	Dibenzo (a,h) anthracene (ug/kg)	Fluoranthene (ug/kg)	Fluorene (ug/kg)	Ideno (1,2,3-cd) pyrene (ug/kg)	Naphthalene (ug/kg)	Phenanthrene (ug/kg)	Pyrene (ug/kg)	1-methyl naphthalene (ug/kg)	2-methyl naphthalene (ug/kg)	
<b>NR 720 Generic RCLs (ug/kg)</b>		<b>5.5</b>	<b>2,900</b>		<b>1,500</b>			<b>4,100</b>	<b>250</b>																			
<b>Industrial RCL (ug/Kg)*</b>		<b>1.16E+04</b>	<b>1.02E+08</b>	<b>No standard</b>	<b>2.04E+08</b>	<b>5.11E+07</b>	<b>5.11E+07</b>	<b>2.04E+08</b>		<b>6.00E+07</b>	<b>3.60E+05</b>	<b>3.00E+08</b>	<b>3.90E+03</b>	<b>3.90E+02</b>	<b>3.90E+03</b>	<b>3.90E+04</b>	<b>3.90E+04</b>	<b>3.90E+05</b>	<b>3.90E+02</b>	<b>4.00E+07</b>	<b>4.00E+07</b>	<b>3.90E+03</b>	<b>1.10E+05</b>	<b>3.90E+05</b>	<b>3.00E+07</b>	<b>7.00E+07</b>	<b>4.00E+07</b>	
<b>Excavation Confirmation Samples (Refer to Figure 2)</b>																												
B-1	4-Feb-02	270	943	198	1,500	1,640	1,940	3,300	25	<33	<33	<22	26	18	20	<25	8	24	<10	72	<7	<14	<33	28	27			
NSW-2	4-Feb-02	127	105	<36	448	1,310	269	<73	<9.5	<33	<33	<22	<4	6	<6	<25	<6	<5	<10	<7	<7	<14	<33	<21	<9			
SSW-3	4-Feb-02	82	<37	<37	380	1,020	216	<74	9	<33	<33	<22	22	12	15	<25	6	22	<10	54	<7	<14	<33	<21	19			
ESW-1	4-Feb-02	451	1,210	<37	1,590	7,830	12,200	13,500	260	<33	<33	<22	<4	8	12	<25	<6	<5	<10	<7	<7	<14	<33	77	<9			
WSW-1	4-Feb-02	<38	<38	<38	245	698	104	<76	<9.2	<33	<33	<22	<4	<3	<6	<25	<6	<5	<10	<7	<7	<14	<33	<21	<9			
<b>Push-Probe Investigation Samples (Refer to Figure 2)</b>																												
GP-1-14'	9-Oct-02	<25	<25	<25	<25	<25	<25	<25	<5.1	<21	<16	<15	<17	<16	<14	<15	<17	<17	<14	<13	<16	<15	<22	<14	<15	<18	<15	
GP-2-8.5'	9-Oct-02	<25	41	<25	<25	50	110	89	<4.8	<20	<15	<15	<16	<15	<13	<14	<16	<16	<13	16	<15	<14	23	19	18	42	56	
GP-2-15.5'	9-Oct-02	<25	<25	<25	<25	<25	<25	<25	<5.2	<22	<17	<16	<18	<17	<15	<15	<17	<18	<15	<14	<17	<15	<23	<15	<16	<19	<16	
GP-3-14'	10-Oct-02	<25	<25	<25	<25	<25	<25	<25	<3.9	<19	<14	<14	<15	<14	<13	<13	<15	<15	<13	<12	<14	<13	<19	<13	<14	<16	<14	
GP-3-20'	10-Oct-02	<25	<25	<25	<25	<25	<25	<25	<5.1	<24	<18	<18	<20	<18	<16	<17	<19	<20	<16	<16	<18	<17	<25	<16	<18	<21	<18	
GP-4-18'	10-Oct-02	90	72	<25	74	140	290	266	79	<24	<18	22	91	70	63	43	67	98	16	200	<18	43	<25	92	180	<20	<18	
GP-4-24'	10-Oct-02	<25	<25	<25	<25	<25	<25	<25	<4.8	<25	<19	<18	<21	<19	<17	<17	<20	<21	<17	<16	<19	<17	<26	<17	<18	<21	<18	
GP-5-16'	10-Oct-02	<25	<25	<25	<25	<25	<25	<25	<4.4	<22	<17	<16	<18	<17	<15	<15	<17	<18	<15	<14	<17	<15	<23	<15	<16	<19	<16	
GP-7-15'	10-Oct-02	<25	<25	<25	<25	<25	<25	<25	380	<23	<18	<17	27	18	16	<16	20	23	<15	74	<18	<16	<24	45	58	<20	<17	
GP-8-15'	10-Oct-02	<25	<25	<25	42	<25	<25	<25	23	<23	<17	<16	<18	<17	<15	<16	<18	<18	<15	25	<17	<16	<23	<15	25	19	<16	
GP-8-19.5'	10-Oct-02	<25	<25	<25	<25	<25	<25	<25	<4.7	<24	<18	<17	<19	<18	<16	<16	<19	<19	<16	<15	<18	<16	<24	<16	<17	<20	<17	

\* Industrial RCLs calculated per EPA Soil Screening Guidance Website (<http://risk.lsd.ornl.gov/epa/sa11.shtml>).



**Table 2: Groundwater Elevations**

Enbridge Pipelines (Lakehead), L.L.C. - Superior Terminal Field Booster Pump 56

<b>Location</b>	<b>Date</b>	<b>Reference Elevation (Feet NGVD)</b>	<b>Depth to Groundwater (Feet)</b>	<b>Groundwater Elevation (Feet NGVD)</b>
TW-2A	6/25/2004	100.00	5.70	94.30
	10/18/2004	100.00	6.97	93.03
	1/28/2005	100.00	5.68	94.32
	4/14/2005	100.00	5.86	94.14
	7/20/2005	100.00	3.67	96.33
TW-3A	10/18/2004	101.43	13.06	88.37
	1/28/2005	101.43	9.25	92.18
	4/14/2005	101.43	9.09	92.34
	7/20/2005	101.43	7.40	94.03
TW-4A	10/18/2004	100.57	8.04	92.53
	1/28/2005	100.57	8.67	91.90
	4/14/2005	100.57	8.04	92.53
	7/20/2005	100.57	7.17	93.40