

February 10, 2020

MR THOMAS SUTARIK
25850 COUNTY HWY G
ASHLAND WI 54806

MS MICHELE SUTARIK
213 13TH AVE E
ASHLAND WI 54806

KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

SUBJECT: Final Case Closure with Continuing Obligations
Nep's Bar, 23885 County Highway G, Ashland, Wisconsin
DNR BRRTS Activity #03-04-000980
FID #804035210

Dear Mr. Sutarik and Ms. Sutarik:

The Department of Natural Resources (DNR) considers the Nep's Bar site closed, with continuing obligations. No further investigation or remediation is required at this time. However, you, future property owners, and occupants of the property 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, rents or leases this property from you. For residential property transactions, you may be required to make disclosures under Wis. Stat. § 709.02. Certain continuing obligations also apply to affected rights-of-way holders. These are identified within each continuing obligation.

This final closure decision is based on the correspondence and data provided and is issued under Wis. Admin. Code chs. NR 726 and NR 727. The DNR's Northern Region Closure Committee reviewed the request for closure on December 19, 2019. The Closure Committee reviewed this environmental remediation case for compliance with state laws and standards. A request for remaining actions needed was issued by the DNR on December 20, 2019, and documentation that the conditions in that letter were met was received on January 21, 2020.

The investigation and remediation activities at this site were conducted for discharges of hazardous substances, environmental pollution or both (the contamination) from the former underground storage tank located on the Nep's Bar property referenced above. Case closure under Wis. Admin. Code chs. NR 726 and NR 727 is granted for the contaminants analyzed during the site investigation, as documented in the DNR site file. The site investigation and remedial action addressed soil and groundwater contamination. Remaining soil and groundwater contamination will be addressed through natural attenuation. The conditions of closure and continuing obligations required were based on the property being used for commercial 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 at or above Wis. Admin. Code ch. NR 140, enforcement standards.
- Residual soil contamination exists that must be properly managed should it be excavated or removed.
- A soil cover must be maintained over contaminated soil and the DNR must be notified and approve any changes to this barrier.
- If a structural impediment that obstructed a complete site investigation and/or cleanup is removed or modified, additional environmental work must be completed.

The attached DNR fact sheet “Continuing Obligations for Environmental Protection,” RR-819, helps to explain a property owner’s responsibility for continuing obligations on their property. The fact sheet may be obtained online at dnr.wi.gov and search “RR-819”.

DNR Database

This site will be included on the Bureau for Remediation and Redevelopment Tracking System (BRRTS) on the Web (BOTW) online at dnr.wi.gov and search “BOTW”, to provide public notice of residual contamination and of any continuing obligations. The site can also be viewed on the Remediation and Redevelopment Sites Map (RRSM), a map view, at dnr.wi.gov and search “RRSM”.

The DNR’s approval prior to well construction or reconstruction is required in accordance with Wis. Admin. Code § NR 812.09 (4) (w). This requirement applies to private drinking water wells and high capacity wells. To obtain approval, complete and submit Form 3300-254 to the DNR Drinking and Groundwater program’s regional water supply specialist. This form can be obtained on-line at dnr.wi.gov and search “3300-254”.

All site information is also on file at the DNR’s Northern Region office, at 107 Sutliff Avenue in Rhineland, Wisconsin. This letter and information that was submitted with your closure request application, including any maps, can be found as a Portable Document Format (PDF) in BRRTS on the Web.

Prohibited Activities

Certain activities are prohibited at closed sites because maintenance of a barrier is intended to prevent contact with any remaining contamination. When a barrier is required, the condition of closure requires notification of the DNR before making a change, in order to determine if further action is needed to maintain the protectiveness of the remedy employed. The following activities are prohibited on any portion of the property where a building foundation is required, as shown on the attached Figure D.2 Location Map, prepared by METCO and dated August 7, 2019, unless prior written approval has been obtained from the DNR:

- removal of the existing barrier or cover;
- replacement with another barrier or cover;
- excavating or grading of the land surface;
- filling on covered or paved areas;
- plowing for agricultural cultivation;
- construction or placement of a building or other structure;
- changing the use or occupancy of the property to a residential exposure setting, which may include certain uses, such as single or multiple family residences, a school, day care, senior center, hospital, or similar residential exposure settings.

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 Wis. Stat. § 292.11, to ensure compliance with the specified requirements, limitations or other conditions related to the property.

Please send written notifications in accordance with the following requirements to:

Department of Natural Resources
Attn: Remediation and Redevelopment Program Environmental Program Associate
107 Sutliff Avenue
Rhineland, Wisconsin 54501

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

Groundwater contamination greater than enforcement standards is present both on this contaminated property and off this contaminated property, as shown on the attached Figure B.3.b Groundwater Isoconcentration (11/5/18), prepared by METCO and dated August 7, 2019. If you intend to construct a new well, or reconstruct an existing well, you'll need prior DNR approval. Affected right-of-way (ROW) holders were notified of the presence of groundwater contamination. This continuing obligation also applies to the ROW holders for County Highway G.

Residual Soil Contamination (Wis. Admin. Code ch. NR 718, chs. NR 500 to NR 536, or Wis. Stat. ch. 289)

Soil contamination remains under the main building and garage foundations and in the area of the former underground storage tanks as indicated on the attached Figure B.2.b Residual Soil Contamination, prepared by METCO and dated December 16, 2019. 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 Wis. Admin. Code ch. NR 718, 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.

Cover or Barrier (Wis. Stat. § 292.12 (2) (a), Wis. Admin. Code § NR 726.15, § NR 727.07)

The gravel cover that exists in the location shown on the attached Figure D.2 Location Map, prepared by METCO and dated August 7, 2019, shall be maintained in compliance with the attached cap maintenance plan in order to prevent direct contact with residual soil contamination that might otherwise pose a threat to human health.

The cover approved for this closure was designed to be protective for a commercial or industrial use setting. Before using the property for residential purposes, you must notify the DNR at least 45 days before taking an action, to determine if additional response actions are warranted.

A request may be made to modify or replace a cover or barrier. Before removing or replacing the cover, you must notify the DNR at least 45 days before taking an action. The replacement or modified cover or barrier must be protective of the revised use of the property and must be approved in writing by the DNR prior to implementation. A cover or barrier for industrial land uses, or certain types of commercial land uses may not be protective if the use of the property were to change such that a residential exposure would apply. This may include, but is not limited to, single or multiple family residences, a school, day care, senior center, hospital or similar settings. In addition, a cover or barrier for multi-family residential housing use may not be appropriate for use at a single-family residence.

The attached maintenance plan and inspection log (DNR form 4400-305) included as part of the Attachment D.1 Description of Maintenance Action(s), are to be kept up-to-date and on-site. Inspections shall be conducted annually, in accordance with the attached maintenance plan. Submit the inspection log to the DNR only upon request.

Structural Impediments (Wis. Stat. § 292.12 (2) (b), Wis. Admin. Code § NR 726.15, § NR 727.07)
The building as shown on Figure B.2.b Residual Soil Contamination, and the attachment B.5. Structural Impediment Photos, prepared by METCO and dated December 16, 2019, 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 at least 45 days 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.

PECFA Reimbursement

Wis. Stat. § 101.143, requires that Petroleum Environmental Cleanup Fund Award (PECFA) claimants seeking reimbursement of interest costs, for sites with petroleum contamination, submit a final reimbursement claim within 120 days after they receive a closure letter on their site. For claims not received within 120 days of the date of this letter, interest costs after 60 days of the date of this letter will not be eligible for PECFA reimbursement. If there is equipment purchased with PECFA funds remaining at the site, contact the DNR Project Manager to determine the method for salvaging the equipment.

Per Wisconsin Act 55 (2015 State budget), a claim for PECFA reimbursement must be submitted within 180 days of incurring costs (i.e., completing a task). If your final PECFA claim is not submitted within 180 days of incurring the costs, the costs will not be eligible for PECFA reimbursement.

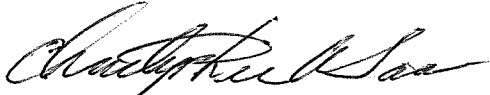
In Closing

Please be aware that the case may be reopened pursuant to Wis. Admin. Code § NR 727.13, for any of the following situations:

- 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,
- if the property owner does not comply with the conditions of closure, with any deed restrictions applied to the property, or with a certificate of completion issued under Wis. Stat. § 292.15, or
- a property owner fails to maintain or comply with a continuing obligation (imposed under this closure approval letter).

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 Carrie Stoltz at (715) 365-8942 or at Carrie.Stoltz@Wisconsin.gov. You can also contact me at (715) 685-2920 or by email at Christopher.Saari@wisconsin.gov.

Sincerely,



Christopher A. Saari
Northern Region Team Supervisor
Remediation and Redevelopment Program

Attachments:

- Figure B.3.b Groundwater Isoconcentration (11/5/18), METCO, August 7, 2019
- Figure B.2.b Residual Soil Contamination, METCO, December 16, 2019
- B.5. Structural Impediment Photos, METCO, December 16, 2019
- Attachment D.1 Description of Maintenance Action(s), METCO
- Continuing Obligations for Environmental Protection, DNR Publication RR-819

cc: Jason Powell/Ron Anderson – METCO (via email)
Carrie Stoltz – DNR Rhinelander (via email)

B.3.b GROUNDWATER ISOCONCENTRATION (11/5/18)

NEP'S BAR



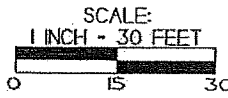
MOQUAH, WISCONSIN

DRAWN BY: ED
DATE: 08/13/2012
UPDATED BY: RW 8/7/2019



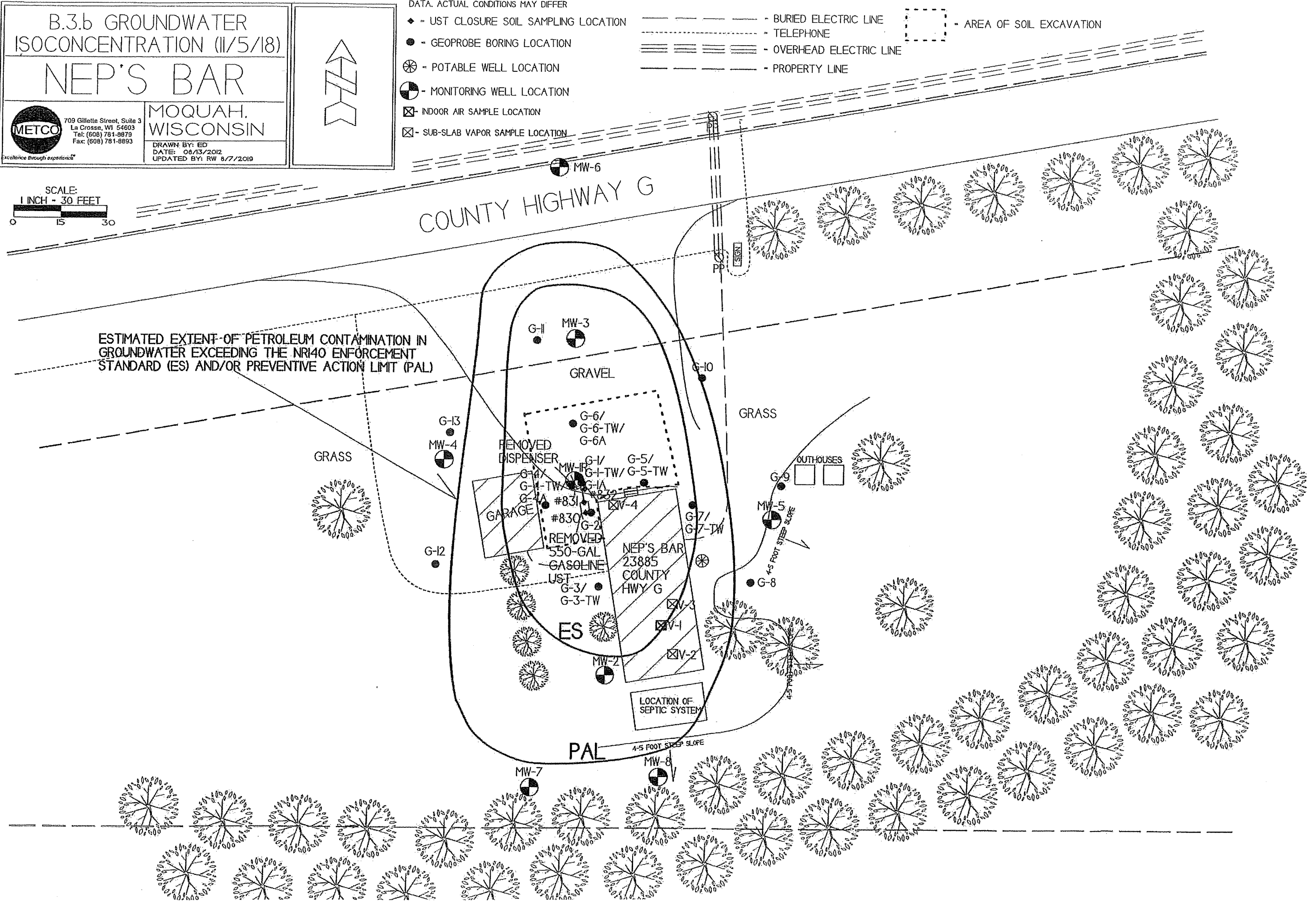
NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

- ◆ - UST CLOSURE SOIL SAMPLING LOCATION
- - GEOPROBE BORING LOCATION
- ⊗ - POTABLE WELL LOCATION
- ⊙ - MONITORING WELL LOCATION
- ⊠ - INDOOR AIR SAMPLE LOCATION
- ⊡ - SUB-SLAB VAPOR SAMPLE LOCATION
- - BURIED ELECTRIC LINE
- - - - TELEPHONE
- ==== OVERHEAD ELECTRIC LINE
- - - - PROPERTY LINE
- - - - AREA OF SOIL EXCAVATION



COUNTY HIGHWAY G

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN GROUNDWATER EXCEEDING THE NR140 ENFORCEMENT STANDARD (ES) AND/OR PREVENTIVE ACTION LIMIT (PAL)

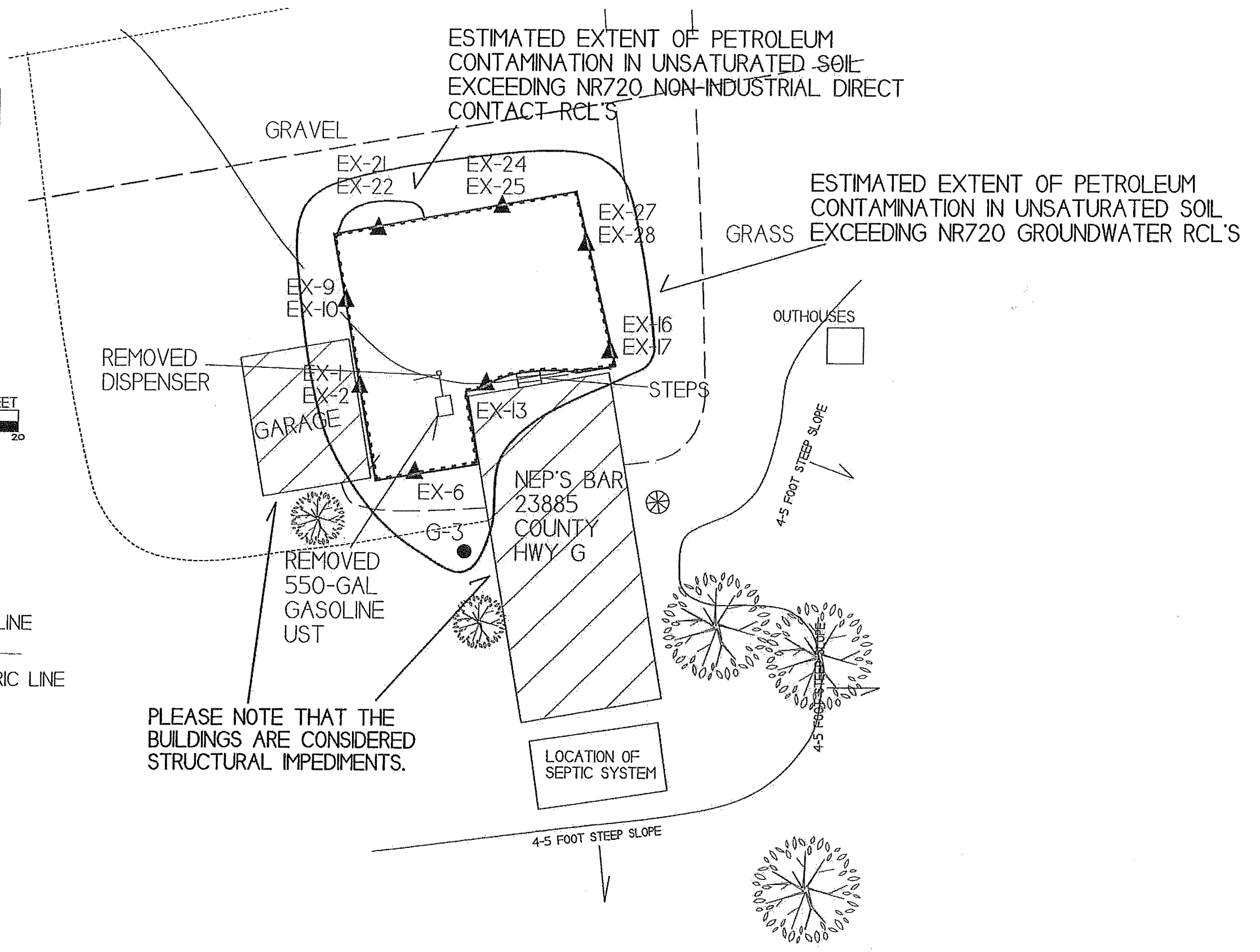
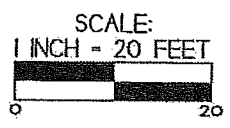


12/16/19 12/16/19

B.2.b RESIDUAL SOIL CONTAMINATION	
NEP'S BAR	
<p>709 Giffels Street, Suite 3 La Crosse, WI 54603 Tel: (608) 781-8879 Fax: (608) 781-8893</p>	<p>MOQUAH, WISCONSIN</p> <p>DRAWN BY: ED DATE: 08/13/2002 UPDATED BY: RW 8/7/2019</p>

NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

- ◆ - UST CLOSURE SOIL SAMPLING LOCATION
- - GEOPROBE BORING LOCATION
- ⊗ - POTABLE WELL LOCATION
- ⊕ - MONITORING WELL LOCATION
- ⊠ - INDOOR AIR SAMPLE LOCATION
- ⊡ - SUB-SLAB VAPOR SAMPLE LOCATION
- ▲ - SOIL EXCAVATION SAMPLE LOCATION
- = BURIED ELECTRIC LINE
- = TELEPHONE
- ==== = OVERHEAD ELECTRIC LINE
- = PROPERTY LINE
- = AREA OF SOIL EXCAVATION TO 12 FEET BGS



ERP
12/16/19

R
12/16/19

B.5. Structural Impediment Photos



Photo #1: On site buildings (bar and garage) looking south.

209
12/16/09

12/16/09

B.5. Structural Impediment Photos



Photo #2: On site buildings (bar and garage) looking southeast

208
12/14/19

11
12/16/19

B.5. Structural Impediment Photos



Photo #3: On site building (bar) looking southwest.

D.1 Description of Maintenance Action(s)

CAP MAINTENANCE PLAN

Property Located at:
23885 County Highway G
Ashland WI, 54806

WDNR BRRTS# 03-04-000980

TAX KEY# 27494

Introduction

This document is the Maintenance Plan for a gravel cap at the above-referenced property in accordance with the requirements of s. NR 724.13(2), Wisconsin Administrative Code. The maintenance activities relate to the existing gravel cap which addresses or occupies the area over the contaminated soil exceeding the NR720 Direct Contact Standards.

More site-specific information about this property may be found in:

- The case file in the DNR Northern Region office
- BRRTS on the Web (DNR's internet based data base of contaminated sites):
<http://dnr.wi.gov/botw/SetUpBasicSearchForm.do>
- GIS Registry PDF file for further information on the nature and extent of contamination and
- The DNR project manager for Bayfield County.

Description of Contamination

Soil contaminated by petroleum is located at a depth of 3-9.5 feet below ground surface. Groundwater contaminated by petroleum is located at a depth of 1.6-17.3 feet below ground surface. The extent of the soil and groundwater contamination is shown on Attachment D.2.

Description of the Cap to be maintained

The cap consists of 6 inches of gravel located to the north of the on-site building. The Cap area is shown on Attachment D.2.

Cover Barrier Purpose

D.1 Description of Maintenance Action(s)

The gravel cap over the contaminated soil and groundwater serves 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.

Annual Inspection

The gravel cap overlying the contaminated soil and as depicted in Attachment D.2 will be inspected once a year, normally in the spring after all snow and ice is gone, for deterioration and other potential problems that can cause exposure to underlying soils. The inspections will be performed by the property owner or their designated representative. The inspections will be performed to evaluate damage due to settling, exposure to the weather, wear from traffic, increasing age and other factors. Any area where soils have become or are likely to become exposed will be documented.

A log of the inspections and any repairs will be maintained by the property owner and is included as Form 4400-305 Continuing Obligations and Maintenance 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 kept at the address of the property owner and available for submittal or inspection by Wisconsin Department of Natural Resources ("WDNR") representatives upon their request.

Note: The WDNR may, in some instances, require in the case closure letter that the inspection log be submitted at least annually after every inspection. If the case closure letter requires that, then a copy of the inspection log must be submitted to the WDNR at least annually after every inspection.

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 or larger resurfacing or construction operations. In the event that necessary maintenance activities expose the underlying soil, the owner must inform maintenance workers of the direct contact exposure hazard and provide them with appropriate personal protection equipment ("PPE"). The owner must also sample any soil that is excavated from the site prior to disposal to ascertain if contamination remains. The soil must be treated, stored and disposed of by the owner in accordance with applicable local, state, and federal law.

In the event the gravel cap overlying the contaminated soil is removed or replaced, the replacement barrier must be equally impervious. Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in this Maintenance Plan unless indicated otherwise by the WDNR or its successor.

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

Prohibition of Activities and Notification of DNR Prior to Actions Affecting a Cover or Cap

D.1 Description of Maintenance Action(s)

The following activities are prohibited on any portion of the property where the cap is required as shown on the attached map, unless prior written approval has been obtained from the Wisconsin Department of Natural Resources: 1) removal of the existing barrier; 2) replacement with another barrier; 3) excavating or grading of the land surface; 4) filling on capped or paved areas; 5) plowing for agricultural cultivation; 6) construction or placement of a building or other structure; or 7) changing the use or occupancy of the property to a residential exposure setting, which may include certain uses, such as single or multiple family residences, a school, day care, senior center, hospital, or similar residential exposure settings.

If removal, replacement or other changes to a cover, or a building which is acting as a cover, are considered, the property owner will contact DNR at least 45 days before taking such an action, to determine whether further action may be necessary to protect human health, safety, or welfare or the environment, in accordance with s. NR 727.07, Wis. Adm. Code.

Amendment or Withdrawal of Maintenance Plan

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

Contact Information

October 2018

Current Site Contact:

Michele Sutarik
213 13th Ave East
Ashland, WI 54806

Signature: 
(DNR may request signature of affected property owners, on a case-by-case basis)

Consultant:

METCO
Ron Anderson
709 Gillette Street, Suite 3
La Crosse, WI 54603
(608) 781-8879

WDNR:

Carrie Stoltz
107 Suttleff Avenue
Rhinelander, WI 54501

D.2
LOCATION MAP

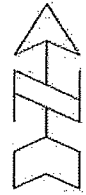
NEP'S BAR



709 Gillette Street, Suite 3
La Crosse, WI 54603
Tel: (608) 781-8879
Fax: (608) 781-8893

MOQUAH,
WISCONSIN

DRAWN BY: ED
DATE: 08/13/2012
UPDATED BY: RW 8/7/2019



NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

- ◆ - UST CLOSURE SOIL SAMPLING LOCATION
- - GEOPROBE BORING LOCATION
- ⊗ - POTABLE WELL LOCATION
- ⊙ - MONITORING WELL LOCATION
- ⊠ - INDOOR AIR SAMPLE LOCATION
- ⊞ - SUB-SLAB VAPOR SAMPLE LOCATION
- ▲ - SOIL EXCAVATION SAMPLE LOCATION

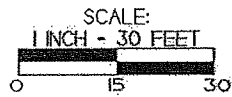
--- - AREA OF SOIL EXCAVATION

----- - BURIED ELECTRIC LINE

----- - TELEPHONE

=====
=====
===== - OVERHEAD ELECTRIC LINE

----- - PROPERTY LINE



COUNTY HIGHWAY G

AREA OF GRAVEL CAP TO BE MAINTAINED

GRASS

GRASS

REMOVED DISPENSER

OUTHOUSES

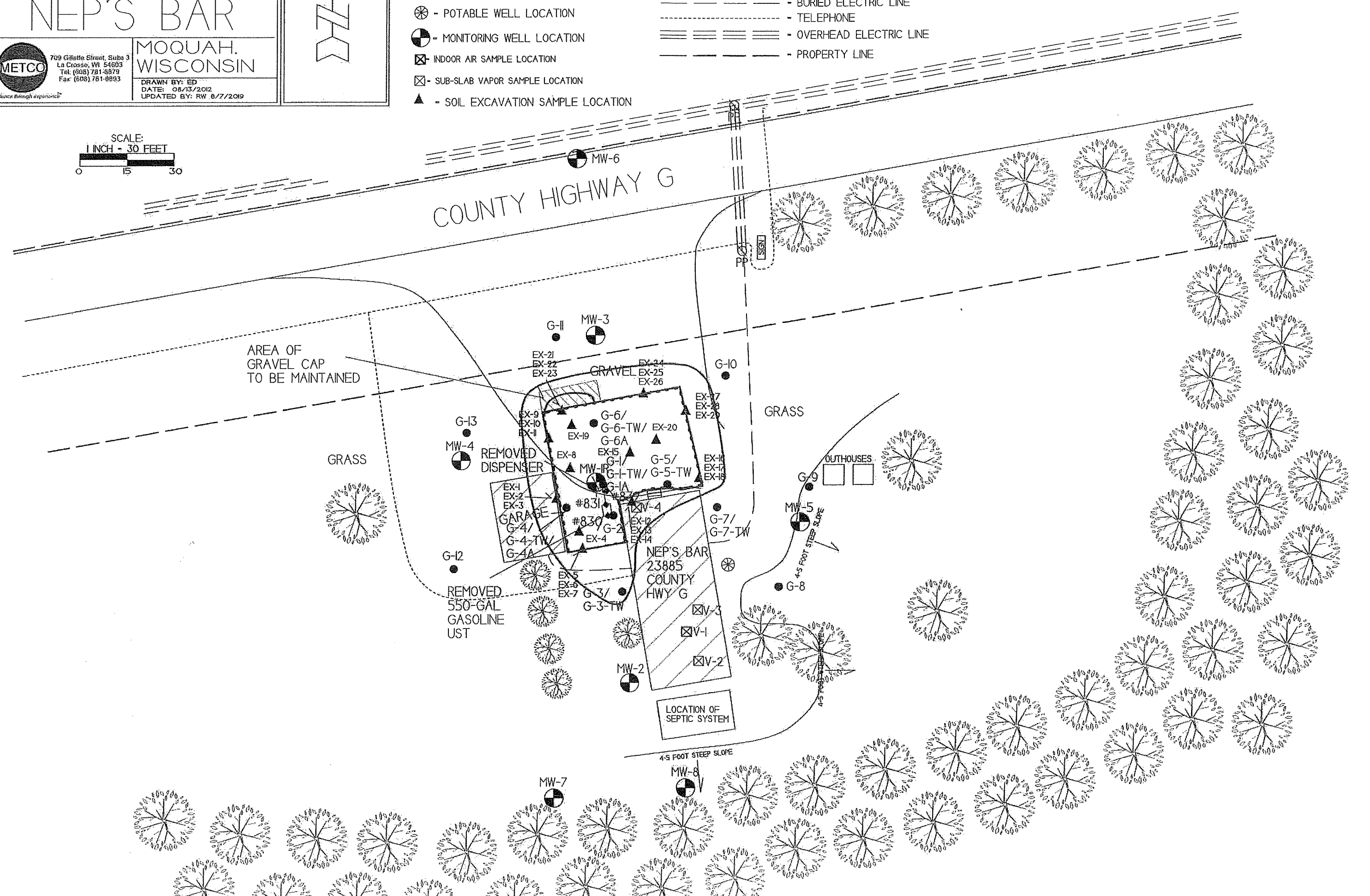
REMOVED 550-GAL GASOLINE UST

NEP'S BAR
23885
COUNTY HWY G

LOCATION OF SEPTIC SYSTEM

4-5 FOOT STEEP SLOPE

4-5 FOOT STEEP SLOPE



D.3. Photographs

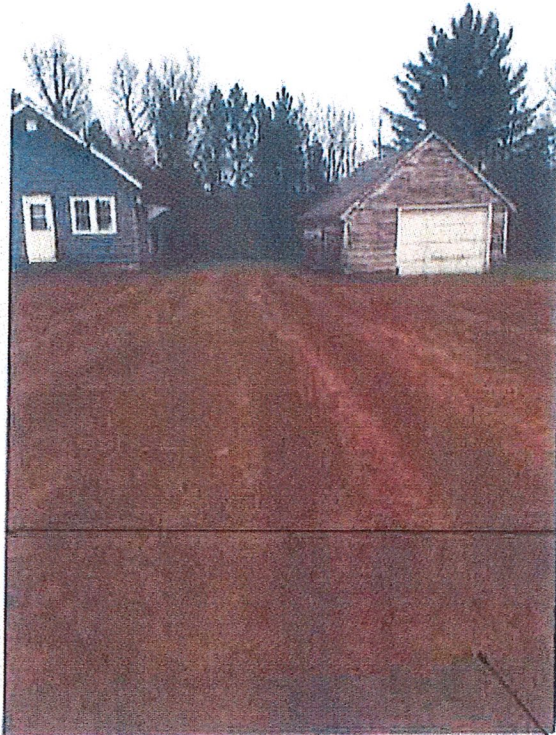


Image looking south

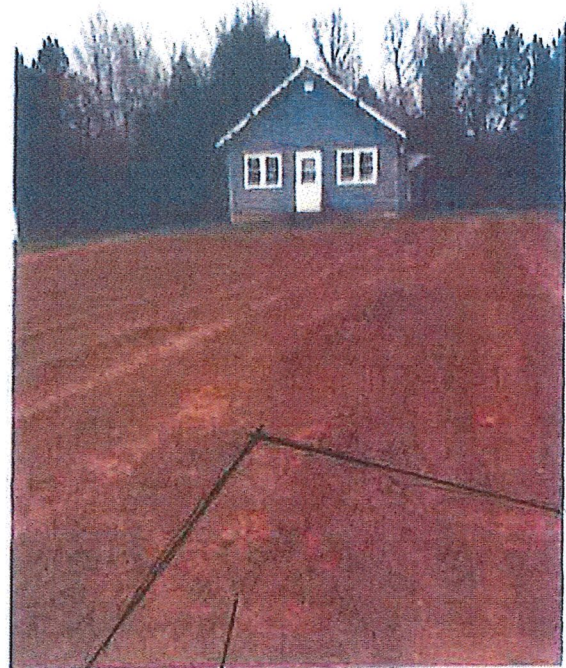


Image looking southeast



Image looking southwest

Approximate Area

D.4. Inspection Log

Directions: In accordance with s. NR 727.05 (1) (b) 3., Wis. Adm. Code, use of this form for documenting the inspections and maintenance of certain continuing obligations is required. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.]. When using this form, identify the condition that is being inspected. See the closure approval letter for this site for requirements regarding the submittal of this form to the Department of Natural Resources. A copy of this inspection log is required to be maintained either on the property, or at a location specified in the closure approval letter. Do NOT delete previous inspection results. This form was developed to provide a continuous history of site inspection results. The Department of Natural Resources project manager is identified in the closure letter. The project manager may also be identified from the database, BRRTS on the Web, at <http://dnr.wi.gov/botw/SetUpBasicSearchForm.do>, by searching for the site using the BRRTS ID number, and then looking in the "Who" section.

Activity (Site) Name Neps Bar (former)	BRRTS No. 03-04-000980
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Inspections are required to be conducted (see closure approval letter):

annually
 semi-annually
 other – specify _____

When submittal of this form is required, submit the form electronically to the DNR project manager. An electronic version of this filled out form, or a scanned version may be sent to the following email address (see closure approval letter):

Inspection Date	Inspector Name	Item	Describe the condition of the item that is being inspected	Recommendations for repair or maintenance	Previous recommendations implemented?	Photographs taken and attached?
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N



December 20, 2019

MR THOMAS SUTARIK
25850 COUNTY HWY G
ASHLAND WI 54806

SUBJECT: Remaining Actions Needed for Case Closure under Wis. Admin. Code chs. NR 700-754
Nep's Bar
23885 County Highway G, Ashland, Wisconsin
DNR BRRTS Activity #03-04-000980

Dear Mr. Sutarik:

On December 19, 2019, the Department of Natural Resources (DNR) reviewed your request for closure of the case described above. The DNR reviews environmental remediation cases for compliance with applicable local, state and federal laws. The following actions are required prior to the DNR granting you case closure in compliance with Wis. Stat. ch. 292 and Wis. Admin. Code chs. NR 700-754. Upon completion of these actions, closure approval will be provided. Pursuant to Wis. Admin. Code § NR 726.09 (2) (g), you are required to provide this information to the DNR within 120 days of the date of this letter.

Remaining Actions Needed

Monitoring Well Filling and Sealing

The monitoring wells at the site must be properly filled and sealed in accordance with Wis. Admin. Code ch. NR 141. Documentation of filling and sealing for all wells and boreholes must be submitted on DNR Form 3300-005 to DNR, Attn: Carrie Stoltz, 107 Sutliff Avenue, Rhinelander, WI 54501. To download the form, go online at dnr.wi.gov and search "form 3300-005".

Purge Water, Waste and/or Soil Pile Removal

Any remaining purge water, solid waste and/or contaminated soil piles generated as part of site investigation or remediation activities must be removed from the site and properly managed in accordance with the applicable local, state and federal laws. Once that work is complete, send documentation to the DNR regarding the methods used for appropriate treatment or disposal of the remaining purge water, solid waste and/or contaminated soil.

Documentation

When the required actions are completed, submit the appropriate documentation within 120 days of the date of this letter, to verify completion. At that point, your closure request can be approved, and your case can be closed.

Listing on Database

This site will be listed on the DNR's Bureau for Remediation and Redevelopment Tracking System on the Web (BOTW) and RR Sites Map, to provide public notice of remaining contamination and continuing obligations. The continuing obligations will be specified in the final case closure approval letter sent to you. Information that was submitted with your closure request application will be included on BOTW, located online at dnr.wi.gov and search "BOTW".

In Conclusion

We appreciate your efforts to restore the environment at this site. This remedial action project is nearing completion. We look forward to working with you to complete all remaining actions that are necessary to achieve case closure.

If you have any questions regarding this letter, please contact the project manager, Carrie Stoltz at (715) 365-8942 or Carrie.Stoltz@Wisconsin.gov

Sincerely,



Christopher A. Saari
Northern Region Team Supervisor
Remediation and Redevelopment Program

cc: Jason Powell – METCO (via email)
Carrie Stoltz – DNR Rhinelander (via email)

Wisconsin Department of Natural Resources
Case Closure – GIS Registry
NR 4400-202

For: Neps Bar (former)
BRRTS # 03-04-000980

September 19, 2019



Excellence through experience™



Excellence through experience™

709 Gillette St., Ste 3 ♦ La Crosse, WI 54603 ♦ 1-800-552-2932 ♦ Fax (608) 781-8893 Email: rona@metcohq.com ♦ www.metcohq.com

September 19, 2019

WDNR BRRTS#: 03-04-000980
PECFA #: 54806-9237-03

Kathleen Shafel, Environmental Program Associate
WDNR Remediation and Redevelopment Program
WDNR Northern Region
223 East Steinfest Rd
Antigo, WI 54409

RE: Neps Bar (Former) - Closure Review and GIS Registry Fees

Dear Mrs Shafel,

Enclosed is the \$1,050 WDNR Closure Review Fee and the \$650 GIS Registry Fee (Soil and Groundwater) for the Neps Bar (Former) site (BRRTS #: 03-04-000980) located in Ashland, Wisconsin. The complete closure submittal is being sent to Carrie Stoltz of the WDNR.

Sincerely,

A handwritten signature in cursive script that reads "Jason T. Powell".

Jason T. Powell
Staff Scientist

C: Thomas Sutarik - Client

Table of Contents

WDNR Case Summary and Case Closure – GIS Registry Form

Attachment A/Data Tables

Attachment B/Maps, Figures, and Photos

Attachment C/Documentation of Remedial Action

Attachment D/Maintenance Plan(s)

Attachment E/Monitoring Well Information

Attachment F/Source Legal Documents

Attachment G/Notifications to Owners of Affected Properties

SUBMIT AS UNBOUND PACKAGE IN THE ORDER SHOWN

Notice: Pursuant to ch. 292, Wis. Stats., and chs. NR 726 and 746, Wis. Adm. Code, this form is required to be completed for case closure requests. The closure of a case means that the Department of Natural Resources (DNR) has determined that no further response is required at that time based on the information that has been submitted to the DNR. All sections of this form must be completed unless otherwise directed by the Department. DNR will consider your request administratively complete when the form and all sections are completed, all attachments are included, and the applicable fees required under ch. NR 749, Wis. Adm. Code, are included, and sent to the proper destinations. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31 - 19.39, Wis. Stats.). Incomplete forms will be considered "administratively incomplete" and processing of the request will stop until required information is provided.

Site Information			
BRRTS No.	VPLE No.		
03-04-000980			
Parcel ID No.			
04-040-2-47-06-11-1 01-000-20000			
FID No.	WTM Coordinates		
804035210	X 437,503	Y 678,317	
BRRTS Activity (Site) Name	WTM Coordinates Represent:		
Neps Bar	<input checked="" type="checkbox"/> Source Area <input type="checkbox"/> Parcel Center		
Site Address	City	State	ZIP Code
23885 CTH G	Ashland	WI	54806
Acres Ready For Use			
6			

Responsible Party (RP) Name			
Thomas Sutarik			
Company Name			
Mailing Address	City	State	ZIP Code
25850 County Highway G	Ashland	WI	54806
Phone Number	Email		
(715) 746-2225	msutarik@larsonjuhl.com		

Check here if the RP is the owner of the source property.

Environmental Consultant Name			
Ron Anderson			
Consulting Firm			
METCO			
Mailing Address	City	State	ZIP Code
709 Gillette Street	La Crosse	WI	54603
Phone Number	Email		
(608) 781-8879	rona@metcohq.com		

Fees and Mailing of Closure Request

1. **Send a copy of page one** of this form and the applicable ch. NR 749, Wis. Adm. Code, fee(s) to the DNR Regional EPA (Environmental Program Associate) at <http://dnr.wi.gov/topic/Brownfields/Contact.html#tabx3>. Check all fees that apply:

- | | |
|--|---|
| <input checked="" type="checkbox"/> \$1,050 Closure Fee | <input checked="" type="checkbox"/> \$300 Database Fee for Soil |
| <input checked="" type="checkbox"/> \$350 Database Fee for Groundwater or Monitoring Wells (Not Abandoned) | Total Amount of Payment \$ <u>\$1,700.00</u> |
| | <input type="checkbox"/> Resubmittal, Fees Previously Paid |

2. **Send one paper copy and one e-copy on compact disk of the entire closure package** to the Regional Project Manager assigned to your site. Submit as unbound, separate documents in the order and with the titles prescribed by this form. For electronic document submittal requirements, see <http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf>.

Site Summary

If any portion of the Site Summary Section is not relevant to the case closure request, you must fully explain the reasons why in the relevant section of the form. All information submitted shall be legible. Providing illegible information will result in a submittal being considered incomplete until corrected.

1. General Site Information and Site History

- A. Site Location: Describe the physical location of the site, both generally and specific to its immediate surroundings.
The Neps Bar site 23885 County Highway G is located at the NE 1/4, NE 1/4, Section 11, Township 47 North, Range 6 West, in Ashland (Town of Pilsen), Bayfield County, WI. The site is bound by County Highway G to the north, a large residential property to the east, and a large vacant wooded lot to the south.
- B. Prior and current site usage: Specifically describe the current and historic occupancy and types of use.
The subject property is a small tavern with an attached living quarters. The subject property had a UST system for retail fuel sales that operated from the 1950's or 1960's until 1995. On October 15, 1995, one 550-gallon unleaded gasoline UST and dispenser were removed from the subject property. The UST system was installed in 1985. Prior to 1985, an older UST system existed in the same location, which originally sold leaded gasoline.
- C. Current zoning (e.g., industrial, commercial, residential) for the site and for neighboring properties, and how verified (Provide documentation in Attachment G).
According to the Bayfield County GIS Map, the Neps Bar site is zoned as A-1 Agricultural. Properties to the north, east, and south are also zoned Agricultural.
- D. Describe how and when site contamination was discovered.
On October 15, 1995, one 550-gallon unleaded gasoline UST and dispenser were removed from the subject property. During the UST removal, two soil samples were collected from beneath the removed UST (#830 and #831) and one soil sample was collected from beneath the removed dispenser (#832) for GRO analysis. Petroleum contamination was detected in all three of the soil samples, #830 (1,800 ppm GRO), #831 (1,900 ppm GRO), and #832 (4,500 ppm GRO). The petroleum contamination was reported to the WDNR, who then required that a site investigation be conducted.
- E. Describe the type(s) and source(s) or suspected source(s) of contamination.
Petroleum contamination appears to have originated from the former gasoline UST systems.
- F. Other relevant site description information (or enter Not Applicable).
Not Applicable
- G. List BRRTS activity/site name and number for BRRTS activities at this source property, including closed cases.
There are no other BRRTS activities listed for the subject property.
- H. List BRRTS activity/site name(s) and number(s) for all properties immediately adjacent to (abutting) this source property.
There are no BRRTS activities for any immediately adjacent properties.

2. General Site Conditions

- A. Soil/Geology
- i. Describe soil type(s) and relevant physical properties, thickness of soil column across the site, vertical and lateral variations in soil types.
Local unconsolidated materials generally consists of red clay to sandy clay from surface to at least 20 feet bgs.
 - ii. Describe the composition, location and lateral extent, and depth of fill or waste deposits on the site.
Fill material consisting of sand to sand with gravel was encountered in the area of the former UST's and dispenser islands. This material was excavated in November 2017, and was back filled with clean sandy silt fill.
After the November 2017 excavation, the excavation area was back filled with clean sand fill.
 - iii. Describe the depth to bedrock, bedrock type, competency and whether or not it was encountered during the investigation.
The unconsolidated materials are underlain by Pre-Cambrian sedimentary rock (shale, sandstone, and conglomerate) at approximately 300 to 400 feet below ground surface.
 - iv. Describe the nature and locations of current surface cover(s) across the site (e.g., natural vegetation, landscaped areas, gravel, hard surfaces, and buildings).
The on-site building is located in the center portion of the property. To the northwest of the main building is a garage, to the north of the bar and garage is a gravel driveway area and to the west, east, south of the buildings are grassy areas with tree cover.
- B. Groundwater

- i. Discuss depth to groundwater and piezometric elevations. Describe and explain depth variations, including high and low water table elevation and whether free product affects measurement of water table elevation. Describe the stratigraphic unit(s) where water table was found or which were measured for piezometric levels.

According to data collected from the monitoring wells, the depth to groundwater ranges from 2.33 to 15.10 feet bgs depending on well location and time of year. The stratigraphic unit where the water table exists consists of clay to sandy clay. Free product has not affected measurements of the water table elevations.

- ii. Discuss groundwater flow direction(s), shallow and deep. Describe and explain flow variations, including fracture flow if present.

According to the watertable measurements collected during groundwater sampling, local horizontal groundwater flow in the immediate area of the subject property is generally toward the south. Groundwater flow direction deeper in the aquifer is not known as no piezometers have been installed.

- iii. Discuss groundwater flow characteristics: hydraulic conductivity, flow rate and permeability, or state why this information was not obtained.

On November 7, 2014, METCO conducted slug tests on monitoring wells MW-1, MW-3, and MW-5. The slug test data was evaluated using the curve fitting program "Hydro-Test for Windows" Produced by Dakota Environmental, Inc. Slug test data was evaluated using the Bouwer and Rice method. Hydrogeologic parameters were estimated as follows:

Monitoring Well MW-1

Hydraulic Conductivity (K) = 3.54E-05 cm/sec
Transmissivity = 1.20E-02 cm²/sec
Flow Velocity (V=KI/n) = 4.58530 m/yr

Monitoring Well MW-3

Hydraulic Conductivity (K) = 9.94E-04 cm/sec
Transmissivity = 3.68E-01 cm²/sec
Flow Velocity (V=KI/n) = 128.86537 m/yr

Monitoring Well MW-5

Hydraulic Conductivity (K) = 8.05E-05 cm/sec
Transmissivity = 3.32E-02 cm²/sec
Flow Velocity (V=KI/n) = 10.43721 m/yr

- iv. Identify and describe locations/distance of potable and/or municipal wells within 1200 feet of the site. Include general summary of well construction (geology, depth of casing, depth of screened or open interval).

The subject property and surrounding properties are all served by private potable wells. The potable well for the subject property exists approximately 40 feet to the east of the removed gasoline UST system. Three potable wells were documented within 1,000 feet of the subject property. These are located approximately 900 feet to the west, 900 feet to the east, and 900 feet to the southwest. There is no well construction information available for any of these wells. The on-site private well has been sampled eleven times during the investigation and has shown no detects for the compounds analyzed (VOCs, PVOCs, Naphthalene, 1-2, DCA and Dissolved Lead).

3. Site Investigation Summary

A. General

- i. Provide a brief summary of the site investigation history. Reference previous submittals by name and date. Describe site investigation activities undertaken since the last submittal for this project and attach the appropriate documentation in Attachment C, if not previously provided.

On September 17, 18, and 20, 2012, METCO completed thirteen Geoprobe borings with six temporary wells. Forty-nine soil samples, four groundwater samples, and one private well sample were collected for field and laboratory analysis. Upon completion the temporary wells were properly abandoned. (Site Investigation Report - 12/16/2014).

On September 25-26, 2013, METCO completed a drilling project with the installation five monitoring wells. Twenty-three soil samples were collected for field and laboratory analysis. None of the monitoring wells were developed as they were dry. (Site Investigation Report - 12/16/2014).

On November 7, 2013, METCO collected groundwater samples for field and laboratory analysis from four monitoring wells (as MW-2 was noted as being dry) and the on-site potable well (Round 1). METCO also conducted slug tests on three of the monitoring wells. (Site Investigation Report - 12/16/2014).

On February 2, 2014, METCO collected groundwater samples for field and laboratory analysis from all five monitoring wells and the on-site potable well (Round 2). (Site Investigation Report - 12/16/2014).

On May 1, 2014, METCO collected groundwater samples for field and laboratory analysis from four monitoring wells (as MW-3 was noted having ice inside the well and could not sample) and the on-site potable well (Round 3). (Site Investigation Report - 12/16/2014).

On August 5, 2014, METCO collected groundwater samples for field and laboratory analysis from all five monitoring wells and the on-site potable well (Round 4). (Site Investigation Report - 12/16/2014).

On April 12-13, 2016, Braun Intertec of La Crosse, WI collected one indoor air sample (V-1) from the basement of the residence located at 23885 County Hwy G. The air sample was collected using a Suma canister with a flow regulator that allowed the air sample to be collected over a 24 hour period for VOC (TO-15) analysis. (Letter Report - 10/10/2016).

On April 13, 2016, Braun Intertec installed three sub-slab vapor sampling ports (V-2, V-3, V-4) in the basement of residence 23885 County Hwy G. The sub-slab vapor sampling port was constructed by drilling a 1/2-inch pilot hole through the concrete slab and several inches into the sub slab material with a hammer drill. A 1 1/2-inch outer hole is then drilled to depths ranging from 3/4 -inch to 1-inch, depending on the concrete slab thickness. The hole was cleaned of dust and drilling debris using a shop-vac. A stainless steel vapor pin is installed in the inner hole with a silicon sleeve to obtain an air tight seal with the concrete floor. The remainder of the hole is sealed with hydrated bentonite and a water dam test was conducted to confirm that the seal is air tight. (Letter Report - 10/10/2016).

On April 13, 2016, Braun Intertec collected three vapor samples from the sub-slab sampling ports (V-2, V-3, V-4) for VOC (TO-15) analysis. Vapor samples were collected by using a short length of Teflon tubing to connect the sampling port and a 6-liter Suma canister. The air samples were collected using a Suma canister with a flow regulator that allowed the sub-slab vapor sample to be collected over a 30 minute period. Prior to collecting the sub-slab vapor samples, a shut in test was conducted to assure that the fittings between the sample probe and sampling container are air tight. No leaks were detected. The sub-slab soil vapor sampling results are summarized in the attached data table. (Letter Report - 10/10/2016).

On April 13, 2016, Range Environmental Drilling of Hibbing, MN conducted a drilling project under the supervision of METCO personnel. During the drilling project, three monitoring wells (MW-6, MW-7, MW-8) were installed to 20 feet bgs. Fifteen soil samples were collected during the drilling project for field (PID) and/or laboratory analysis (GRO, PVOC, Naphthalene, and +1,2-DCA). The monitoring wells were not developed, as they were dry following installation. (Letter Report - 10/10/2016).

On May 31, 2016, METCO personnel collected groundwater samples from eight monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, and MW-8,) for VOC (MW-6, MW-7, and MW-8) or PVOC, Naphthalene, and +1,2-DCA analysis (MW-1, MW-2, MW-3, MW-4 and MW-5). A water sample was also collected from the on-site potable well (23885 PW) for VOC analysis. Water level, dissolved oxygen, pH, ORP, specific conductance, and temperature measurements were collected from all sampled wells. (Letter Report - 10/10/2016).

On August 30, 2016, METCO personnel collected groundwater samples from eight monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, and MW-8) for PVOC, Naphthalene, and +1,2-DCA analysis. A water sample was also collected from the on-site potable well (23885 PW) for VOC analysis. Water level, dissolved oxygen, pH, ORP, specific conductance, and temperature measurements were collected from all sampled wells. During the sampling event, METCO personnel properly surveyed the new monitoring wells (MW-6, MW-7, and MW-8) to feet mean sea level (MSL). (Letter Report - 10/10/2016).

On August 14, 2017, Geiss Soil and Samples, LLC conducted a Geoprobe project under supervision and direction of METCO personnel. Three soil borings (G-1A, G-4A, and G-6A) were completed with four soil samples collected for field and laboratory analysis (PID and TCLP-Benzene). Upon completion, the borings were properly abandoned. (Letter Report - 3/22/2018).

On November 14-17, 2017, Ashland Construction Company, Inc of Ashland, Wisconsin conducted a Soil Excavation Project under the supervision and direction of METCO personnel. During the excavation project, 1,143.43 tons of petroleum-contaminated soil was excavated and hauled to the VONCO V Waste Management Landfill in Duluth, Minnesota for proper disposal. Prior to any excavation activities, monitoring well MW-1 was properly abandoned by METCO personnel. The excavation was conducted in the area to the north and northwest of the Nep's Bar building and included the area of the former dispenser island and former UST system. The excavation area consisted of a rectangular shaped area. Measurements to the excavation area were 45' long x 32'-45' wide x 12' deep. Twenty-nine soil samples were collected from the sidewalls and bottom of the excavation for PVOC and Naphthalene analysis. Eight samples were collected at 3 feet below ground surface (bgs), eight samples were collected at 7 feet bgs, and eight samples were collected at 10 feet bgs from the sidewalls. The five bottom samples were collected at 12.5 feet bgs. Soil sample results are presented in the attached soil analytical table. (Letter Report - 3/22/2018).

On January 25, 2018, Geiss Soil and Samples, LLC conducted a Drilling Project under the supervision and direction of METCO personnel. One monitoring well (MW-1R) was blind drilled and installed to 20 feet bgs with a 10-foot screen. The monitoring well was not developed as it was dry following its installation. (Letter Report - 3/22/2018).

On February 21, 2018, METCO personnel collected groundwater samples from eight monitoring wells (MW-1R

12/16/19

through MW-8) and the on-site potable well for laboratory analysis (PVOC, Naphthalene, and 1,2-DCA). Field measurements for water level, Dissolved Oxygen, pH, ORP, temperature, and Specific Conductance were collected from all sampled monitoring wells. During the sampling event, the newly installed monitoring well (MW-1R) was properly surveyed to feet mean sea level (MSL) by METCO personnel. (Letter Report - 3/22/2018).

On May 14, 2018, METCO personnel collected groundwater samples from eight monitoring wells (MW-1R, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, and MW-8) and the on-site potable well (23885 PW) for PVOC, Naphthalene, and 1,2-DCA analysis. Water level, dissolved oxygen, pH, ORP, specific conductance, and temperature measurements were collected from all sampled monitoring wells. (Groundwater Monitoring Report - 1/15/2019).

On August 8, 2018, METCO personnel collected groundwater samples from eight monitoring wells (MW-1R, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, and MW-8) and the on-site potable well (23885 PW) for PVOC, Naphthalene, and 1,2-DCA analysis. Water level, dissolved oxygen, pH, ORP, specific conductance, and temperature measurements were collected from all sampled monitoring wells. (Groundwater Monitoring Report - 1/15/2019).

On November 5, 2018, METCO personnel collected groundwater samples from seven monitoring wells (MW-1R, MW-2, MW-4, MW-5, MW-6, MW-7, and MW-8) and the on-site potable well (23885 PW) for PVOC, Naphthalene, and 1,2-DCA analysis. Water level, dissolved oxygen, pH, ORP, specific conductance, and temperature measurements were collected from all sampled monitoring wells. Monitoring well MW-3 could not be sampled at this time due to being under approximately six inches of water. (Groundwater Monitoring Report - 1/15/2019).

On November 5, 2018, METCO Personnel collected two soil vapor samples from two of the three sub-slab sampling ports (V-2 and V-3) for PVOC and Naphthalene (TO-15) analysis. Sub-slab sampling port (V-4) could not be sampled at this time due to water being in the sampling port and would only extract water. Vapor samples were collected by using a short length of Teflon tubing to connect the sampling port and a 1-liter Suma canister. The air samples were collected using a Suma canister with a flow regulator that allowed the sub-slab vapor sample to be collected over a 15-minute period. Prior to collecting the sub-slab vapor samples, a shut-in test was conducted to assure that the fittings between the sample probe and sampling container are air tight. No leaks were detected. (Groundwater Monitoring Report - 1/15/2019).

- ii. Identify whether contamination extends beyond the source property boundary, and if so describe the media affected (e.g., soil, groundwater, vapors and/or sediment, etc.), and the vertical and horizontal extent of impacts. The extend of soil contamination exceeding the NR720 RCL's does not appear to have migrated beyond the property boundary. Groundwater contamination exceeding the NR140 Enforcement Standards (ES) extends beyond the property boundary into the right of way of County Highway G. The groundwater contamination plume is approximately 51 feet wide at the property boundary, extends up to 24 feet into the right of way, and exists at depths ranging form 1.6 to 8.8 feet bgs.
- iii. Identify any structural impediments to the completion of site investigation and/or remediation and whether these impediments are on the source property or off the source property. Identify the type and location of any structural impediment (e.g., structure) that also serves as the performance standard barrier for protection of the direct contact or the groundwater pathway.

Because soil and groundwater contamination remains under the on-site buildings consisting of the bar and the garage, it is considered a structural impediment as it interfered with the completion of the site investigation and remediation. The bar measures approximately 61 by 26 feet and has a basement. The building overlays the southeastern portion of the soil and groundwater contamination plumes. The garage is a slab on grade, measuring approximately 26 by 20 feet and overlays the western portion of the soil and groundwater contamination plumes.

B. Soil

- i. Describe degree and extent of soil contamination. Relate this to known or suspected sources and known or potential receptors/migration pathways.

An area of unsaturated soil contamination, which exceeds the NR720 Groundwater RCL values exists in the area of former gasoline UST's and excavation area measuring up to 10 feet to the north, east, and west beyond the excavation area, up to 18 feet south of the excavation area, and up to 9.5 feet thick. A second area of NR720 Non-Industrial Direct Contact RCL's exists north of the excavation area and measures 15 feet long and extends up to 4 feet north of the excavation area and up to 4 feet thick.

A buried electric line exist in the area of residual soil contamination. the depth and construction of this utility trench is unknown. However, most buried electric is found between 18 and 24 inches deep bgs. Based on the fact that soil sample EX-5 at 3 feet bgs had no exceedances, we do not believe that this electric line will be a potential migratory path.

- ii. Describe the concentration(s) and types of soil contaminants found in the upper four feet of the soil column. Remaining soil samples from within the upper four feet of the soil column which exceed the NR720 RCL's include:

EX-1 (3 feet bgs): Benzene (1.16 ppm), Naphthalene (2.17 ppm), Toluene (4.6 ppm), Trimethylbenzenes (26.8 ppm) and Xylene (19.9 ppm).
EX-9 (3 feet bgs): Benzene (0.094 ppm).

through MW-8) and the on-site potable well for laboratory analysis (PVOC, Naphthalene, and 1,2-DCA). Field measurements for water level, Dissolved Oxygen, pH, ORP, temperature, and Specific Conductance were collected from all sampled monitoring wells. During the sampling event, the newly installed monitoring well (MW-1R) was properly surveyed to feet mean sea level (MSL) by METCO personnel. (Letter Report - 3/22/2018).

On May 14, 2018, METCO personnel collected groundwater samples from eight monitoring wells (MW-1R, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, and MW-8) and the on-site potable well (23885 PW) for PVOC, Naphthalene, and 1,2-DCA analysis. Water level, dissolved oxygen, pH, ORP, specific conductance, and temperature measurements were collected from all sampled monitoring wells. (Groundwater Monitoring Report - 1/15/2019).

On August 8, 2018, METCO personnel collected groundwater samples from eight monitoring wells (MW-1R, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, and MW-8) and the on-site potable well (23885 PW) for PVOC, Naphthalene, and 1,2-DCA analysis. Water level, dissolved oxygen, pH, ORP, specific conductance, and temperature measurements were collected from all sampled monitoring wells. (Groundwater Monitoring Report - 1/15/2019).

On November 5, 2018, METCO personnel collected groundwater samples from seven monitoring wells (MW-1R, MW-2, MW-4, MW-5, MW-6, MW-7, and MW-8) and the on-site potable well (23885 PW) for PVOC, Naphthalene, and 1,2-DCA analysis. Water level, dissolved oxygen, pH, ORP, specific conductance, and temperature measurements were collected from all sampled monitoring wells. Monitoring well MW-3 could not be sampled at this time due to being under approximately six inches of water. (Groundwater Monitoring Report - 1/15/2019).

On November 5, 2018, METCO Personnel collected two soil vapor samples from two of the three sub-slab sampling ports (V-2 and V-3) for PVOC and Naphthalene (TO-15) analysis. Sub-slab sampling port (V-4) could not be sampled at this time due to water being in the sampling port and would only extract water. Vapor samples were collected by using a short length of Teflon tubing to connect the sampling port and a 1-liter Suma canister. The air samples were collected using a Suma canister with a flow regulator that allowed the sub-slab vapor sample to be collected over a 15-minute period. Prior to collecting the sub-slab vapor samples, a shut-in test was conducted to assure that the fittings between the sample probe and sampling container are air tight. No leaks were detected. (Groundwater Monitoring Report - 1/15/2019).

- ii. Identify whether contamination extends beyond the source property boundary, and if so describe the media affected (e.g., soil, groundwater, vapors and/or sediment, etc.), and the vertical and horizontal extent of impacts.
The extend of soil contamination exceeding the NR720 RCL's does not appear to have migrated beyond the property boundary. Groundwater contamination exceeding the NR140 Enforcement Standards (ES) extends beyond the property boundary into the right of way of County Highway G. The groundwater contamination plume is approximately 51 feet wide at the property boundary, extends up to 24 feet into the right of way, and exists at depths ranging form 1.6 to 8.8 feet bgs.
- iii. Identify any structural impediments to the completion of site investigation and/or remediation and whether these impediments are on the source property or off the source property. Identify the type and location of any structural impediment (e.g., structure) that also serves as the performance standard barrier for protection of the direct contact or the groundwater pathway.

There were no structural impediments to the completion of the investigation and remediation.

B. Soil

- i. Describe degree and extent of soil contamination. Relate this to known or suspected sources and known or potential receptors/migration pathways.

An area of unsaturated soil contamination, which exceeds the NR720 Groundwater RCL values exists in the area of former gasoline UST's and excavation area measuring up to 10 feet to the north, east, and west beyond the excavation area, up to 18 feet south of the excavation area, and up to 9.5 feet thick. A second area of NR720 Non-Industrial Direct Contact RCL's exists north of the excavation area and measures 15 feet long and extends up to 4 feet north of the excavation area and up to 4 feet thick.

A buried electric line exist in the area of residual soil contamination. the depth and construction of this utility trench is unknown. However, most buried electric is found between 18 and 24 inches deep bgs. Based on the fact that soil sample EX-5 at 3 feet bgs had no exceedances, we do not believe that this electric line will be a potential migratory path.

- ii. Describe the concentration(s) and types of soil contaminants found in the upper four feet of the soil column. Remaining soil samples from within the upper four feet of the soil column which exceed the NR720 RCL's include:

EX-1 (3 feet bgs): Benzene (1.16 ppm), Naphthalene (2.17 ppm), Toluene (4.6 ppm), Trimethylbenzenes (26.8 ppm) and Xylene (19.9 ppm).

EX-9 (3 feet bgs): Benzene (0.094 ppm).

EX-16 (3 feet bgs): Benzene (0.11 ppm).

EX-21 (3 feet bgs): Benzene (4.6 ppm), Ethylbenzene (2.24ppm), and Xylene (7.38 ppm).

EX-24 (3 feet bgs): Benzene (0.10 ppm).

EX-27 (3 feet bgs): Benzene (0.092 ppm).

- iii. Identify the ch. NR 720, Wis. Adm. Code, method used to establish the soil cleanup standards for this site. This includes a soil performance standard established in accordance with s. NR 720.08, a Residual Contaminant Level (RCL) established in accordance with s. NR 720.10 that is protective of groundwater quality, or an RCL established in accordance with s. NR 720.12 that is protective of human health from direct contact with contaminated soil. Identify the land use classification that was used to establish cleanup standards. Provide a copy of the supporting calculations/information in Attachment C.

The method used to establish the soil cleanup standards for this site were the NR720 RCL's. The property is zoned as A-1 Agricultural, therefore, the non-industrial RCL's were used.

C. Groundwater

- i. Describe degree and extent of groundwater contamination. Relate this to known or suspected sources and known or potential receptors/migration pathways. Specifically address any potential or existing impacts to water supply wells or interception with building foundation drain systems.

A dissolved phase contaminant plume exceeding the NR140 ES and/or PAL has formed at the water table in the area of the removed UST systems and has migrated toward the south. This plume is approximately 175 feet long and up to 96 feet wide.

The on-site water supply well exists 40 feet to the east of the removed gasoline UST system. The on-site private well has been sampled eleven times during the investigation and has shown no detects for compounds analyzed (VOCs, PVOCs, Naph, 1-2, DCA and Dissolved Lead).

A buried electric line, telephone line, septic system lines, water source line intersect the area of groundwater contamination exceeding the NR140 ES or PAL. The buried electric and telephone lines likely exist within 3 feet of ground surface and do not appear to be preferential contaminant migration pathways. The water and Septic lines are likely back filled with native soil and do not appear to be preferential contaminant migration pathways. There are no known building foundation drain systems in the area of groundwater contamination.

- ii. Describe the presence of free product at the site, including the thickness, depth, and locations. Identify the depth and location of the smear zone.

Free product was not encountered during the site investigation.

D. Vapor

- i. Describe how the vapor migration pathway was assessed, including locations where vapor, soil gas, or indoor air samples were collected. If the vapor pathway was not assessed, explain reasons why.

On April 12-13, 2016, Braun Intertec of La Crosse, WI collected one indoor air sample (V-1) from the basement of the residence located at 23885 County Hwy G. The air sample was collected using a Suma canister with a flow regulator that allowed the air sample to be collected over a 24 hour period for VOC (TO-15) analysis.

On April 13, 2016, Braun Intertec installed three sub-slab vapor sampling ports (V-2, V-3, V-4) in the basement of residence 23885 County Hwy G. The sub-slab vapor sampling port was constructed by drilling a 1/2-inch pilot hole through the concrete slab and several inches into the sub slab material with a hammer drill. A 1 1/2-inch outer hole is then drilled to depths ranging from 3/4 -inch to 1-inch, depending on the concrete slab thickness. The hole was cleaned of dust and drilling debris using a shop-vac. A stainless steel vapor pin is installed in the inner hole with a silicon sleeve to obtain an air tight seal with the concrete floor. The remainder of the hole is sealed with hydrated bentonite and a water dam test was conducted to confirm that the seal is air tight.

On April 13, 2016, Braun Intertec collected three vapor samples from the sub-slab sampling ports (V-2, V-3, V-4) for VOC (TO-15) analysis. Vapor samples were collected by using a short length of Teflon tubing to connect the sampling port and a 6-liter Suma canister. The air samples were collected using a Suma canister with a flow regulator that allowed the sub-slab vapor sample to be collected over a 30 minute period. Prior to collecting the sub-slab vapor samples, a shut in test was conducted to assure that the fittings between the sample probe and sampling container are air tight. No leaks were detected.

On November 5, 2018, METCO Personnel collected two soil vapor samples from two of the three sub-slab sampling ports (V-2 and V-3) for PVOc and Naphthalene (TO-15) analysis. Sub-slab sampling port (V-4) could not be sampled at this time due to water being in the sampling port and would only extract water. Vapor samples were collected by using a short length of Teflon tubing to connect the sampling port and a 1-liter Suma canister. The air samples were collected using a Suma canister with a flow regulator that allowed the sub-slab vapor sample to be collected over a 15-minute period. Prior to collecting the sub-slab vapor samples, a shut-in test was conducted to assure that the fittings between the sample probe and sampling container are air tight. No leaks were detected.

- ii. Identify the applicable DNR action levels and the land use classification used to establish them. Describe where the DNR action levels were reached or exceeded (e.g., sub slab, indoor air or both).

The results from the April 2016 vapor sampling are as follows:

Indoor Air Sample V-1: Had a Residential Indoor Air Vapor Action Level (VAL) exceedance for Naphthalene (2.9 ug/m³). This may likely be due to the presence of the the two home heating oil tanks located in the basement.

Sub-Slab Vapor Sample V-2: Had a Residential Sub Slab Vapor Action Levels (VAL) exceedance for Naphthalene (67.4 ug/m³).

Sub-Slab Vapor Sample V-3: Showed no exceedances for the Residential Sub-Slab Vapor Action Levels (VAL).

Sub-Slab Vapor Sample V-4: Showed no exceedances for the Residential Sub-Slab Vapor Action Levels (VAL).

The results from the November 2018 vapor sampling are as follows:

Sub-Slab Vapor Sample V-2: Showed no exceedances for the Residential Sub-Slab Vapor Action Levels (VAL).

Sub-Slab Vapor Sample V-3: Showed no exceedances for the Residential Sub-Slab Vapor Action Levels (VAL).

Sub-Slab Vapor Sample V-4: Was unable to be sampled but showed no exceedances for the Residential Sub-Slab Vapor Action Levels (VAL) during the last sampling event (April 12-13, 2016).

E. Surface Water and Sediment

- i. Identify whether surface water and/or sediment was assessed and describe the impacts found. If this pathway was not assessed, explain why.

The nearest surface water is an unnamed creek, which exists approximately 250 feet to the east and southeast of the subject property. Currently, it does not appear that the petroleum contamination has migrated to any surface waters.

- ii. Identify any surface water and/or sediment action levels used to assess the impacts for this pathway and how these were derived. Describe where the DNR action levels were reached or exceeded.

No surface water or sediment samples were collected.

4. Remedial Actions Implemented and Residual Levels at Closure

- A. General: Provide a brief summary of the remedial action history. List previous remedial action report submittals by name and date. Identify remedial actions undertaken since the last submittal for this project and provide the appropriate documentation in Attachment C.

On November 14-17, 2017, Ashland Construction Company, Inc of Ashland, Wisconsin conducted a Soil Excavation Project under the supervision and direction of METCO personnel. During the excavation project, 1,143.43 tons of petroleum-contaminated soil was excavated and hauled to the VONCO V Waste Management Landfill in Duluth, Minnesota for proper disposal. Prior to any excavation activities, monitoring well MW-1 was properly abandoned by METCO personnel. The excavation was conducted in the area to the north and northwest of the Nep's Bar building and included the area of the former dispenser island and former UST system. The excavation area consisted of a rectangular shaped area, as shown on the attached Soil Excavation Map. Measurements to the excavation area were 45' long x 32'-45' wide x 12' deep. Twenty-nine soil samples were collected from the sidewalls and bottom of the excavation for PVOC and Naphthalene analysis. Eight samples were collected at 3 feet below ground surface (bgs), eight samples were collected at 7 feet bgs, and eight samples were collected at 10 feet bgs from the sidewalls. The five bottom samples were collected at 12.5 feet bgs. Following the excavation project, the excavation area was backfilled with clean soils and capped with gravel. (Letter Report - 3/22/2018).

- B. Describe any immediate or interim actions taken at the site under ch NR 708, Wis. Adm. Code.

No immediate or interim actions occurred at this site.

- C. Describe the active remedial actions taken at the source property, including: type of remedial system(s) used for each media affected; the size and location of any excavation or in-situ treatment; the effectiveness of the systems to address the contaminated media and substances; operational history of the systems; and summarize the performance of the active remedial actions. Provide any system performance documentation in Attachment A.7.

On November 14-17, 2017, Ashland Construction Company, Inc of Ashland, Wisconsin conducted a Soil Excavation Project under the supervision and direction of METCO personnel. During the excavation project, 1,143.43 tons of petroleum-contaminated soil was excavated and hauled to the VONCO V Waste Management Landfill in Duluth, Minnesota for proper disposal. Prior to any excavation activities, monitoring well MW-1 was properly abandoned by METCO personnel. The excavation was conducted in the area to the north and northwest of the Nep's Bar building and included the area of the former dispenser island and former UST system. The excavation area consisted of a rectangular shaped area, as shown on the attached Soil Excavation Map. Measurements to the excavation area were 45' long x 32'-45' wide x 12' deep. Twenty-nine soil samples were collected from the sidewalls and bottom of the excavation for PVOC and Naphthalene analysis.

Eight samples were collected at 3 feet below ground surface (bgs), eight samples were collected at 7 feet bgs, and eight samples were collected at 10 feet bgs from the sidewalls. The five bottom samples were collected at 12.5 feet bgs. Following the excavation project, the excavation area was backfilled with clean soils and capped with gravel. (Letter Report - March 22, 2018)

- D. Describe the alternatives considered during the Green and Sustainable Remediation evaluation in accordance with NR 722.09 and any practices implemented as a result of the evaluation.
No evaluation of the Green and Sustainable Remediation was conducted.

- E. Describe the nature, degree and extent of residual contamination that will remain at the source property or on other affected properties after case closure.
An area of unsaturated soil contamination, which exceeds the NR720 Groundwater RCL values exists in the area of former gasoline UST's and excavation area measuring up to 10 feet to the north, east, and west beyond the excavation area, up to 18 feet south of the excavation area, and up to 9.5 feet thick. A second area of NR720 Non-Industrial Direct Contact RCL's exists north of the excavation area and measures 15 feet long and extends up to 4 feet north of the excavation area and up to 4 feet thick.

A dissolved phase contaminant plume exceeding the NR140 ES and/or PAL has formed at the water table in the area of the removed UST systems and has migrated toward the south. This plume is approximately 175 feet long and 96 feet wide.

The extent of soil contamination exceeding the NR720 RCL's does not appear to have migrated beyond the property boundary. Groundwater contamination exceeding the NR140 Enforcement Standards (ES) extends beyond the property boundary into the right of way of County Highway G. The groundwater contamination plume is approximately 51 feet wide at the property boundary, extends up to 24 feet into the right of way, and exists at depths ranging from 1.6 to 8.8 feet bgs.

- F. Describe the residual soil contamination within four feet of ground surface (direct contact zone) that attains or exceeds RCLs established under s. NR 720.12, Wis. Adm. Code, for protection of human health from direct contact.

Soil Sample EX-21 (3 feet bgs): Benzene (4.6 ppm) is the only known residual soil contamination exceeding the NR720 Non-Industrial Direct Contact RCL's.

- G. Describe the residual soil contamination that is above the observed low water table that attains or exceeds the soil standard(s) for the groundwater pathway.

Remaining soil samples above the observed low water table which currently exceed the NR720 RCL's include:

G-3-3 (11 feet bgs): Benzene (1.5 ppm).

EX-1 (3 feet bgs): Benzene (1.16 ppm), Naphthalene (2.17 ppm), Toluene (4.6 ppm), Trimethylbenzenes (26.8 ppm) and Xylene (19.9 ppm).

EX-2 (7 feet bgs): Benzene (18.6 ppm), Ethylbenzene (29.3 ppm), Naphthalene (12 ppm), Toluene (105 ppm), Trimethylbenzenes (97.7 ppm) and Xylene (158 ppm).

EX-6 (7 feet bgs): Benzene (2.79 ppm), Toluene (4.9 ppm), and Trimethylbenzenes (1.395 ppm).

EX-9 (3 feet bgs): Benzene (0.094 ppm).

EX-10 (7 feet bgs): Benzene (0.146 ppm).

EX-13 (7 feet bgs): Benzene (10.3 ppm), Ethylbenzene (9 ppm), Naphthalene (3.7 ppm), Toluene (30.1 ppm), Trimethylbenzenes (27.7 ppm) and Xylene (46.2 ppm).

EX-16 (3 feet bgs): Benzene (0.11 ppm).

EX-17 (7 feet bgs): Benzene (2.87 ppm), Ethylbenzene (2.67 ppm), Naphthalene (1.42 ppm), and Trimethylbenzenes (10.34 ppm).

EX-21 (3 feet bgs): Benzene (4.6 ppm), Ethylbenzene (2.24 ppm), and Xylene (7.38 ppm).

EX-22 (7 feet bgs): Benzene (2.28 ppm), Toluene (5.6 ppm), Trimethylbenzenes (4.06 ppm) and Xylene (7.93 ppm).

EX-24 (3 feet bgs): Benzene (0.10 ppm).

EX-25 (7 feet bgs): Benzene (0.91 ppm).

EX-27 (3 feet bgs): Benzene (0.092 ppm).

EX-28 (7 feet bgs): Benzene (0.227 ppm).

- H. Describe how the residual contamination will be addressed, including but not limited to details concerning: covers, engineering controls or other barrier features; use of natural attenuation of groundwater; and vapor mitigation systems or measures.

Following the remedial excavation residual soil contamination and groundwater contamination will be addressed via natural attenuation and cap maintenance plan. Based on recent SSVS results the risk of vapor intrusion appears unlikely.

- I. If using natural attenuation as a groundwater remedy, describe how the data collected supports the conclusion that natural attenuation is effective in reducing contaminant mass and concentration (e.g., stable or receding groundwater plume).
Since the overall contaminant trends appear to be stable to decreasing, and the most highly contaminated soils were removed during the soil excavation project, it appears that natural attention will be effective in reducing the contaminant mass.
- J. Identify how all exposure pathways (soil, groundwater, vapor) were removed and/or adequately addressed by immediate, interim and/or remedial action(s).
Following the remedial excavation any remaining exposure pathways will be addressed via natural attenuation and cap maintenance plan.
- K. Identify any system hardware anticipated to be left in place after site closure, and explain the reasons why it will remain.
No system hardware is anticipated to be left in place after site closure.

- L. Identify the need for a ch. NR 140, Wis. Adm. Code, groundwater Preventive Action Limit (PAL) or Enforcement Standard (ES) exemption, and identify the affected monitoring points and applicable substances.

Monitoring locations that currently exceed the NR140 PAL or ES include the following:

Monitoring Well MW-1R: Currently shows NR140 ES exceedances for Benzene (6,600 ppb), 1,2-Dichloroethane (DCA) (215 ppb), Ethylbenzene (700 ppb), Naphthalene (146 ppb), Toluene (3,200 ppb), Trimethylbenzenes (1,020 ppb), and Xylene (2530 ppb).

Monitoring Well MW-2: Currently shows an NR140 PAL exceedance for Benzene (2.96 ppb).

Monitoring Well MW-3: Currently shows an NR140 ES exceedance for Benzene (23 ppb).

- M. If a DNR action level for vapor intrusion was exceeded (for indoor air, sub slab, or both) describe where it was exceeded and how the pathway was addressed.

On April 13, 2016 an indoor air sample was collected from the basement of the Nep's Bar building which showed a WDNR VAL exceedance for Naphthalene (2.9 ug/m³). This was likely due to the presence of two heating oil tanks in the basement.

On April 13, 2016 three sub-slab soil vapor samples were collected from beneath the basement floor of the Nep's Bar buildings. One of the sub-slab vapor samples (V-2) showed a WDNR VAL exceedance for Naphthalene. A subsequent post excavation sampling event from sub-slab vapor sampling ports V-2 and V-3 on November 5, 2018 showed no exceedances of the WDNR VAL's.

There were no other vapor samples that exceeded the sub slab vapor action level for this site.

- N. Describe the surface water and/or sediment contaminant concentrations and areas after remediation. If a DNR action level was exceeded, describe where it was exceeded and how the pathway was addressed.

No surface water or sediment samples were collected.

5. Continuing Obligations: Situations where sites, including all affected properties and rights-of-way (ROWs), are included on the DNR's GIS Registry. In certain situations, maintenance plans are also required, and must be included in Attachment D.

Directions: For each of the 3 property types below, check all situations that apply to this closure request.

(NOTE: Monitoring wells to be transferred to another site are addressed in Attachment E.)

This situation applies to the following property or Right of Way (ROW):			Case Closure Situation - Continuing Obligation Inclusion on the GIS Registry is Required (ii. - xiv.)	Maintenance Plan Required	
Property Type:					
Source Property	Affected Property (Off-Source)	ROW			
i.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None of the following situations apply to this case closure request.	NA
ii.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Residual groundwater contamination exceeds ch. NR 140 ESs.	NA
iii.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Residual soil contamination exceeds ch. NR 720 RCLs.	NA
iv.				Monitoring Wells Remain:	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Not Abandoned (filled and sealed)	NA
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Continued Monitoring (requested or required)	Yes
v.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cover/Barrier/Engineered Cover or Control for (soil) direct contact pathways (includes vapor barriers)	Yes
vi.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cover/Barrier/Engineered Cover or Control for (soil) groundwater infiltration pathway	Yes
vii.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Structural Impediment: impedes completion of investigation or remedial action (not as a performance standard cover)	NA
viii.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Residual soil contamination meets NR 720 industrial soil RCLs, land use is classified as industrial	NA
ix.	<input type="checkbox"/>	<input type="checkbox"/>	NA	Vapor Mitigation System (VMS) required due to exceedances of vapor risk screening levels or other health based concern	Yes
x.	<input type="checkbox"/>	<input type="checkbox"/>	NA	Vapor: Dewatering System needed for VMS to work effectively	Yes
xi.	<input type="checkbox"/>	<input type="checkbox"/>	NA	Vapor: Compounds of Concern in use: full vapor assessment could not be completed	NA
xii.	<input type="checkbox"/>	<input type="checkbox"/>	NA	Vapor: Commercial/industrial exposure assumptions used.	NA
xiii.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vapor: Residual volatile contamination poses future risk of vapor intrusion	NA
xiv.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Site-specific situation: (e. g., fencing, methane monitoring, other) (<i>discuss with project manager before submitting the closure request</i>)	Site specific

6. Underground Storage Tanks

- A. Were any tanks, piping or other associated tank system components removed as part of the investigation or remedial action? Yes No
- B. Do any upgraded tanks meeting the requirements of ch. ATCP 93, Wis. Adm. Code, exist on the property? Yes No
- C. If the answer to question 6.B. is yes, is the leak detection system currently being monitored? Yes No

General Instructions

All information shall be legible. Providing illegible information will result in a submittal being considered incomplete until corrected. For each attachment (A-G), provide a Table of Contents page, listing all 'applicable' and 'not applicable' items by Closure Form titles (e.g., A.1. Groundwater Analytical Table, A.2. Soil Analytical Results Table, etc.). If any item is 'not applicable' to the case closure request, you must fully explain the reasons why.

Data Tables (Attachment A)

Directions for Data Tables:

- Use **bold** and italics font for information of importance on tables and figures. Use **bold** font for ch. NR 140, Wis. Adm. Code ES attainments or exceedances, and *italicized font* for ch. NR 140, Wis. Adm. Code, PAL attainments or exceedances.
- Use **bold** font to identify individual ch. NR 720 Wis. Adm. Code RCL exceedances. Tables should also include the corresponding groundwater pathway and direct contact pathway RCLs for comparison purposes. Cumulative hazard index and cumulative cancer risk exceedances should also be tabulated and identified on Tables A.2 and A.3.
- Do not use shading or highlighting on the analytical tables.
- Include on Data Tables the level of detection for results which are below the detection level (i.e., do not just list as no detect (ND)).
- Include the units on data tables.
- Summaries of all data must include information collected by previous consultants.
- Do not submit lab data sheets unless these have not been submitted in a previous report. Tabulate all data required in s. NR 716.15 (3)(c), Wis. Adm. Code, in the format required in s. NR 716.15(4)(e), Wis. Adm. Code.
- Include in Attachment A all of the following tables, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: A.1. Groundwater Analytical Table; A.2. Soil Analytical Results Table, etc.).
- For required documents, each table (e.g., A.1., A.2., etc.) should be a separate Portable Document Format (PDF).

A. Data Tables

- A.1. **Groundwater Analytical Table(s):** Table(s) showing the analytical results and collection dates for all groundwater sampling points (e.g., monitoring wells, temporary wells, sumps, extraction wells, potable wells) for which samples have been collected.
- A.2. **Soil Analytical Results Table(s):** Table(s) showing all soil analytical results and collection dates. Indicate if sample was collected above or below the observed low water table (unsaturated versus saturated).
- A.3. **Residual Soil Contamination Table(s):** Table(s) showing the analytical results of only the residual soil contamination at the time of closure. This table shall be a subset of table A.2 and should include only the soil sample locations that exceed an RCL. Indicate if sample was collected above or below the observed low water table (unsaturated versus saturated). Table A.3 is optional only if a total of fewer than 15 soil samples have been collected at the site.
- A.4. **Vapor Analytical Table(s):** Table(s) showing type(s) of samples, sample collection methods, analytical method, sample results, date of sample collection, time period for sample collection, method and results of leak detection, and date, method and results of communication testing.
- A.5. **Other Media of Concern (e.g., sediment or surface water):** Table(s) showing type(s) of sample, sample collection method, analytical method, sample results, date of sample collection, and time period for sample collection.
- A.6. **Water Level Elevations:** Table(s) showing all water level elevation measurements and dates from all monitoring wells. If present, free product should be noted on the table.
- A.7. **Other:** This attachment should include: 1) any available tabulated natural attenuation data; 2) data tables pertaining to engineered remedial systems that document operational history, demonstrate system performance and effectiveness, and display emissions data; and (3) any other data tables relevant to case closure not otherwise noted above. If this section is not applicable, please explain the reasons why.

Maps, Figures and Photos (Attachment B)

Directions for Maps, Figures and Photos:

- Provide on paper no larger than 11 x 17 inches, unless otherwise directed by the Department. Maps and figures may be submitted in a larger electronic size than 11 x 17 inches, in a PDF readable by the Adobe Acrobat Reader. However, those larger-size documents must be legible when printed.
- Prepare visual aids, including maps, plans, drawings, fence diagrams, tables and photographs according to the applicable portions of ss. NR 716.15(4), 726.09(2) and 726.11(3), (5) and (6), Wis. Adm. Code.
- Include all sample locations.
- Contour lines should be clearly labeled and defined.
- Include in Attachment B all of the following maps and figures, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: B.1. Location Map; B.2. Detailed Site Map, etc).
- For the electronic copies that are required, each map (e.g., B.1.a., B.2.a, etc.) should be a separate PDF.
- Maps, figures and photos should be dated to reflect the most recent revision.

B.1. Location Maps

- B.1.a. **Location Map:** A map outlining all properties within the contaminated site boundaries on a United States Geological Survey (U.S.G.S.) topographic map or plat map in sufficient detail to permit easy location of all affected and/or adjacent parcels. If groundwater standards are exceeded, include the location of all potable wells, including municipal wells, within 1200 feet of the area of contamination.
- B.1.b. **Detailed Site Map:** A map that shows all relevant features (buildings, roads, current ground surface cover, individual property boundaries for all affected properties, 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 attaining or exceeding a ch. NR 140 ES, and/or in relation to the boundaries of soil contamination attaining or exceeding a RCL. Provide parcel identification numbers for all affected properties.
- B.1.c. **RR Sites Map:** From RR Sites Map ([http://dnrmaps.wi.gov/si/?Viewer=RR Sites](http://dnrmaps.wi.gov/si/?Viewer=RR%20Sites)) attach a map depicting the source property, and all open and closed BRRTS sites within a half-mile radius or less of the property.

B.2. Soil Figures

- B.2.a. Soil Contamination:** Figure(s) showing the location of **all** identified unsaturated soil contamination. Use a single contour to show the horizontal extent of each area of contiguous soil contamination that exceeds a soil to groundwater pathway RCL as determined under ch. NR 720.Wis. Adm. Code. A separate contour line should be used to indicate the horizontal extent of each area of contiguous soil contamination that exceeds a direct contact RCL exceedances (0-4 foot depth).
- B.2.b. Residual Soil Contamination:** Figure(s) showing only the locations of soil samples where unsaturated soil contamination remains at the time of closure (locations represented in Table A.3). Use a single contour to show the horizontal extent of each area of contiguous soil contamination that exceeds a soil to groundwater pathway RCL as determined under ch. NR 720 Wis. Adm. Code. A separate contour line should be used to indicate the horizontal extent of each area of contiguous soil contamination that exceeds a direct contact RCL exceedance (0-4 foot depth).

B.3. Groundwater Figures

- B.3.a. Geologic Cross-Section Figure(s):** One or more cross-section diagrams showing soil types and correlations across the site, water table and piezometric elevations, and locations and elevations of geologic rock units, if encountered. Display on one or more figures all of the following:
- Source location(s) and vertical extent of residual soil contamination exceeding an RCL. Distinguish between direct contact and the groundwater pathway RCLs.
 - Source location(s) and lateral and vertical extent if groundwater contamination exceeds ch. NR 140 ES.
 - Surface features, including buildings and basements, and show surface elevation changes.
 - Any areas of active remediation within the cross section path, such as excavations or treatment zones.
 - Include a map displaying the cross-section location(s), if they are not displayed on the Detailed Site Map (Map B.1.b.)
- B.3.b. Groundwater Isoconcentration:** Figure(s) showing the horizontal extent of the post-remedial groundwater contamination exceeding a ch. NR 140, Wis. Adm. Code, PAL and/or an ES. Indicate the date and direction of groundwater flow based on the most recent sampling data.
- B.3.c. Groundwater Flow Direction:** Figure(s) representing groundwater movement at the site. If the flow direction varies by more than 20° over the history of the site, submit two groundwater flow maps showing the maximum variation in flow direction.
- B.3.d. Monitoring Wells:** Figure(s) showing all monitoring wells, with well identification number. Clearly designate any wells that: (1) are proposed to be abandoned; (2) cannot be located; (3) are being transferred; (4) will be retained for further sampling, or (5) have been abandoned.

B.4. Vapor Maps and Other Media

- B.4.a. Vapor Intrusion Map:** Map(s) showing all locations and results for samples taken to investigate the vapor intrusion pathway in relation to residual soil and groundwater contamination, including sub-slab, indoor air, soil vapor, soil gas, ambient air, and communication testing. Show locations and footprints of affected structures and utility corridors, and/or where residual contamination poses a future risk of vapor intrusion.
- B.4.b. Other media of concern (e.g., sediment or surface water):** Map(s) showing all sampling locations and results for other media investigation. Include the date of sample collection and identify where any standards are exceeded.
- B.4.c. Other:** Include any other relevant maps and figures not otherwise noted above. (This section may remain blank).

- B.5. Structural Impediment Photos:** One or more photographs documenting the structural impediment feature(s) which precluded a complete site investigation or remediation at the time of the closure request. The photographs should document the area that could not be investigated or remediated due to a structural impediment. The structural impediment should be indicated on Figures B.2.a and B.2.b.

Documentation of Remedial Action (Attachment C)**Directions for Documentation of Remedial Action:**

- Include in Attachment C all of the following documentation, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: C.1. Site Investigation Documentation; C.2. Investigative Waste, etc.).
- If the documentation requested below has already been submitted to the DNR, please note the title and date of the report for that particular document requested.
 - C.1. **Site investigation documentation**, that has not otherwise been submitted with the Site Investigation Report.
 - C.2. **Investigative waste** disposal documentation.
 - C.3. Provide a **description of the methodology** used along with all supporting documentation if the RCLs are different than those contained in the Department's RCL Spreadsheet available at: <http://dnr.wi.gov/topic/Brownfields/Professionals.html>.
 - C.4. **Construction documentation** or as-built report for any constructed remedial action or portion of, or interim action specified in s. NR 724.02(1), Wis. Adm. Code.
 - C.5. **Decommissioning of Remedial Systems.** Include plans to properly abandon any systems or equipment.
 - C.6. **Other.** Include any other relevant documentation not otherwise noted above (This section may remain blank).

Maintenance Plan(s) and Photographs (Attachment D)**Directions for Maintenance Plans and Photographs:**

Attach a maintenance plan for each affected property (source property, each off-source affected property) with continuing obligations requiring future maintenance (e.g., direct contact, groundwater protection, vapor intrusion). See Site Summary section 5 for all affected property(s) requiring a maintenance plan. Maintenance plan guidance and/or templates for: 1) Cover/barrier systems; 2) Vapor intrusion; and 3) Monitoring wells, can be found at: <http://dnr.wi.gov/topic/Brownfields/Professionals.html#tabx3>

- D.1. Descriptions of maintenance action(s) required for maximizing effectiveness of the engineered control, vapor mitigation system, feature or other action for which maintenance is required:**
- Provide brief descriptions of the type, depth and location of residual contamination.

- Provide a description of the system/cover/barrier/monitoring well(s) to be maintained.
 - Provide a description of the maintenance actions required for maximizing effectiveness of the engineered control, vapor mitigation system, feature or other action for which maintenance is required.
 - Provide contact information, including the name, address and phone number of the individual or facility who will be conducting the maintenance.
- D.2. **Location map(s) which show(s):** (1) the feature that requires maintenance; (2) the location of the feature(s) that require(s) maintenance - on and off the source property; (3) the extent of the structure or feature(s) to be maintained, in relation to other structures or features on the site; (4) the extent and type of residual contamination; and (5) all property boundaries.
- D.3. **Photographs** for site or facilities with a cover or other performance standard, a structural impediment or a vapor mitigation system, include one or more photographs documenting the condition and extent of the feature at the time of the closure request. Pertinent features shall be visible and discernible. Photographs shall be submitted with a title related to the site name and location, and the date on which it was taken.
- D.4. **Inspection log**, to be maintained on site, or at a location specified in the maintenance plan or approval letter. The inspection and maintenance log is found at: <http://dnr.wi.gov/files/PDF/forms/4400/4400-305.pdf>.

Monitoring Well Information (Attachment E)

Directions for Monitoring Well Information:

For all wells that will remain in use, be transferred to another party, or that could not be located; attach monitoring well construction and development forms (DNR Form 4400-113 A and B: http://dnr.wi.gov/topic/groundwater/documents/forms/4400_113_1_2.pdf)

Select One:

- No monitoring wells were installed as part of this response action.
- All monitoring wells have been located and will be properly abandoned upon the DNR granting conditional closure to the site
- Select One or More:**
- Not all monitoring wells can be located, despite good faith efforts. Attachment E must include a description of efforts made to locate the wells.
- One or more wells will remain in use at the site after this closure. Attachment E must include documentation as to the reason (s) the well(s) will remain in use. When one or more monitoring wells will remain in use this is considered a continuing obligation and a maintenance plan will be required and must be included in Attachment D.
- One or more monitoring wells will be transferred to another owner upon case closure being granted. Attachment E should include documentation identifying the name, address and email for the new owner(s). Provide documentation from the party accepting future responsibility for monitoring well(s).

Source Legal Documents (Attachment F)

Directions for Source Legal Documents:

Label documents with the specific closure form titles (e.g., F.1. Deed, F.2. Certified Survey Map, etc.). Include all of the following documents, in the order listed:

- F.1. **Deed:** The most recent deed with legal description clearly listed.
- 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.*
- F.2. **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. In cases where the certified survey map or recorded plat map are not legible or are unavailable, a copy of a parcel map from a county land information office may be substituted. A copy of a parcel map from a county land information office shall be legible, and the parcels identified in the legal description shall be clearly identified and labeled with the applicable parcel identification number.
- F.3. **Verification of Zoning:** Documentation (e.g., official zoning map or letter from municipality) of the property's or properties' current zoning status.
- F.4. **Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes that the attached legal description(s) accurately describe(s) the correct contaminated property or properties. This section applies to the source property only. Signed statements for Other Affected Properties should be included in Attachment G.

Notifications to Owners of Affected Properties (Attachment G)**Directions for Notifications to Owners of Affected Properties:**

Complete the table on the following page for sites which require notification to owners of affected properties pursuant to ch. 292, Wis. Stats. and ch. NR 725 and 726, Wis. Adm. Code. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31- 19.39, Wis. Stats.]. The DNR's "Guidance on Case Closure and the Requirements for Managing Continuing Obligations" (PUB-RR-606) lists specific notification requirements <http://dnr.wi.gov/files/PDF/pubs/rr/RR606.pdf>.

State law requires that the responsible party provide a 30-day, written advance notification to certain persons prior to applying for case closure. This requirement applies if: (1) the person conducting the response action does not own the source property; (2) the contamination has migrated onto another property; and/or (3) one or more monitoring wells will not be abandoned. Use form 4400-286, Notification of Continuing Obligations and Residual Contamination, at <http://dnr.wi.gov/files/PDF/forms/4400/4400-286.pdf>

Include a copy of each notification sent and accompanying proof of delivery, i.e., return receipt or signature confirmation. (These items will not be placed on the GIS Registry.)

Include the following documents for each property, keeping each property's documents grouped together and labeled with the letter G and the corresponding ID number from the table on the following page. (Source Property documents should only be included in Attachment F):

- **Deed:** The most recent deed with legal descriptions clearly listed for all affected properties.
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. In cases where the certified survey map or recorded plat map are not legible or are unavailable, a copy of a parcel map from a county land information office may be substituted. A copy of a parcel map from a county land information office shall be legible, and the parcels identified in the legal description shall be clearly identified and labeled with the applicable parcel identification number.
- **Verification of Zoning:** Documentation (e.g., official zoning map or letter from municipality) of the property's or properties' current zoning status.
- **Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes the attached legal description(s) accurately describe(s) the correct contaminated property or properties.

Signatures and Findings for Closure Determination

This page has been updated as of February 2019 to comply with the requirements of Wis. Admin. Code ch. NR 712.

Check the correct box for this case closure request and complete the corresponding certification statement(s) listed below to demonstrate that the requirements of Wis. Admin. Code ch. NR 712 have been met. The responsibility for signing the certification may not be delegated per Wis. Admin. Code § NR 712.09 (1). Per Wis. Admin. Code § 712.05 (1), the work must be conducted or supervised by the person certifying.

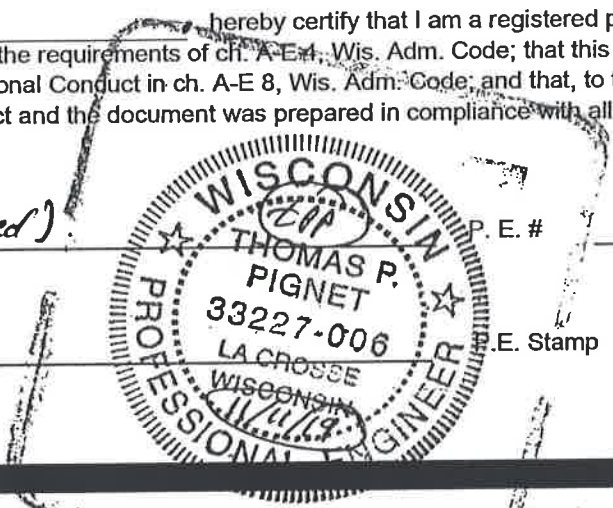
- The investigation and/or response action(s) for this site evaluated and/or addressed groundwater (including natural attenuation remedies). Both a professional engineer and a hydrogeologist must sign this document per Wis. Admin. Code ch. NR 712.
- The investigation and the response action(s) for this site did not evaluate or address groundwater. A professional engineer must sign this document per Wis. Admin. Code ch. NR 712.

Engineering Certification

I, TOM PIGNET, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Signature Thomas Pignet (reviewed)

Title Engineer



P. E. # 33227-006

P. E. Stamp 11/12/19

Hydrogeologist Certification

I, _____, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Signature [Handwritten Signature]

Title SR. Hydrogeologist

Date 11/11/19

[Handwritten Signature]
11/13/19

Attachment A/Data Tables

A.1 Groundwater Analytical Tables

A.2 Soil Analytical Tables

A.3 Residual Soil Contamination Table

A.4 Vapor Analytical Table

A.5 Other Media of Concern - No surface waters or sediments were assessed as part of the site investigation.

A.6 Water Level Elevations

A.7 Other – Hydraulic Conductivity Calculations, Natural Attenuation Parameters

A.1 Groundwater Analytical Table

(Geoprobe)

Nep's Bar LUST Site BRRTS# 03-04-000980

Sample ID	Date	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)	Other VOC's (ppb)
G-2-W	09/17/12	NS	NS	NS	3140	2270	<28.5	470	6500	2540	11310	NS
G-1-TW	09/17/12	NS	NS	NS	19700	2180	<57	370	21100	3130	13100	NS
G-3-TW	09/17/12	NS	NS	NS	DRY							NS
G-4-TW	09/17/12	NS	NS	NS	14400	1280	<57	<230	15600	1400	7030	NS
G-5-TW	09/17/12	NS	NS	NS	12900	1790	<285	<1150	15000	1930	8360	NS
G-6-TW	09/17/12	NS	NS	NS	DRY							NS
G-7-TW	09/17/12	NS	NS	NS	DRY							NS
POTABLE WELL	09/17/12	NS	NS	NS	<0.24	<0.27	<0.38	<0.34	<0.39	<0.24	<0.97	NO
ENFORCE MENT STANDARD ES = Bold		15	-	-	5	700	60	100	800	480	2000	
PREVENTIVE ACTION LIMIT <i>PAL = Italics</i>		1.5	-	-	0.5	140	12	10	160	96	400	

A.1 Groundwater Analytical Table
Nep's Bar LUST Site BRRTS# 03-04-000980

Well MW-1/1R MW-1R 854.31
PVC Elevation = 854.21 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	1,2-Dichloroethane (DCA) (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
11/07/13	845.39	8.82	43.4	23700	1200	2700	<46	490	26800	3390	14300
02/04/14	845.36	8.85	10.1	26700	880	2070	<46	700	26900	3450	13700
05/01/14	849.30	4.91	<0.7	22000	1240	1730	<46	<340	23100	4220	12300
08/05/14	845.81	8.40	4.1	21200	660	1760	<46	850	23200	3050	11900
05/31/16	847.67	6.54	NS	7900	218	1340	<220	410	15500	2600	9310
08/30/16	847.88	6.33	NS	18600	330	1840	<110	490	22300	2530	12300
11/14/17	MW-1 ABANDONED AND REMOVED DURING EXCAVATION PROJECT										
01/25/18	MW-1 WAS REPLACED WITH MW-1R										
02/21/18	839.24	15.07	NS	9200	720	750	<28	238	8100	1880	7250
05/14/18	847.97	6.34	NS	9000	480	850	<28	220	5900	1660	6420
08/08/18	850.47	3.84	NS	6900	410	720	<14	178	4000	1250	3640
11/05/18	851.98	2.33	NS	6600	215	700	<14	146	3200	1020	2530
ENFORCEMENT STANDARD ES = Bold			15	5	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			<i>1.5</i>	<i>0.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million
 ns = not sampled nm = not measured
 Note: Elevations are presented in feet mean sea level (msl).

Well MW-2
PVC Elevation = 853.73 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	1,2-Dichloroethane (DCA) (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
11/07/13	DRY										
02/04/14	836.66	17.07	32.2	410	<41	1700	<23	600	72	3860	3300-3363
05/01/14	842.26	11.47	<0.7	72	<20.5	209	<11.5	<85	<34.5	456	440-471.5
08/05/14	839.05	14.68	1.3	171	<4.1	740	<2.3	181	24.4	1450	1560-1566.3
05/31/16	848.50	5.23	NS	4.3	<0.48	18.8	<1.1	5.6	<0.44	16.5	8.3-9.20
08/30/16	840.18	13.55	NS	35	<0.48	52	<1.1	18.5	0.70	55.1	67-67.9
02/21/18	842.73	11.00	NS	61	<0.25	78	<0.28	4.9	0.89	13.4	9.6-9.89
05/14/18	844.28	9.45	NS	7.0	<0.25	4.4	<0.28	<2.1	0.24	5.68	1.46-1.75
08/08/18	841.42	12.31	NS	32	<0.25	35	<0.28	2.16	0.43	12.6	9.6-9.89
11/05/18	840.73	13.00	NS	2.96	<0.25	5.2	<0.28	<2.1	<0.19	5.57	2.98-3.27
ENFORCEMENT STANDARD ES = Bold			15	5	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			<i>1.5</i>	<i>0.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million
 ns = not sampled nm = not measured
 Note: Elevations are presented in feet mean sea level (msl).

Well MW-3
PVC Elevation = 854.05 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	1,2-Dichloroethane (DCA) (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
11/07/13	846.20	7.85	<0.7	8.3	<0.41	11.8	<0.23	<1.7	17	13.2	42.8
02/04/14	845.63	8.42	<0.7	41	<0.41	40	<0.23	2.98	1	29.3	80.7
05/01/14	ICE FROZEN IN PVC										
08/05/14	847.28	6.79	<0.7	112	<0.41	104	<0.23	17.4	8.5	173	226
05/31/16	849.44	4.61	NS	101	<0.48	59	<1.1	5.1	7.1	52.4	22.57
08/30/16	848.96	5.09	NS	172	<0.48	90	<1.1	<1.6	16	14.5	4.4-5.30
02/21/18	845.86	8.19	NS	84	<0.25	18.4	<0.28	2.7	0.72	26.1-26.73	9.5-9.79
05/14/18	852.49	1.56	NS	<0.22	<0.25	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
08/08/18	852.78	1.27	NS	23	<0.25	0.55	<0.28	<2.1	0.21	<1.43	<0.72
11/05/18	UNDER WATER										
ENFORCEMENT STANDARD ES = Bold			15	5	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			<i>1.5</i>	<i>0.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million
 ns = not sampled nm = not measured
 Note: Elevations are presented in feet mean sea level (msl).

A.1 Groundwater Analytical Table
Nep's Bar LUST Site BRRTS# 03-04-000980

Well MW-4

PVC Elevation = 853.22 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	1,2-Dichloroethane (DCA) (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
11/07/13	835.13	18.09	<0.7	<0.24	<0.41	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
02/04/14	842.17	11.05	<0.7	<0.24	<0.41	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
05/01/14	846.17	7.05	<0.7	<0.24	<0.41	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
08/05/14	844.01	9.21	<0.7	<0.24	<0.41	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
05/31/16	849.16	4.06	NS	<0.44	<0.48	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
08/30/16	846.54	6.68	NS	<0.44	<0.48	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
02/21/18	849.13	4.09	NS	<0.22	<0.25	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
05/14/18	851.34	1.88	NS	<0.22	<0.25	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
08/08/18	847.97	5.25	NS	<0.22	<0.25	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
11/05/18	846.92	6.30	NS	<0.22	<0.25	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
ENFORCEMENT STANDARD ES = Bold			15	5	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			<i>1.5</i>	<i>0.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million
 ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

Well MW-5

PVC Elevation = 851.65 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	1,2-Dichloroethane (DCA) (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
11/07/13	845.17	6.48	<0.7	<0.24	<0.41	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
02/04/14	846.39	5.26	<0.7	<0.24	<0.41	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
05/01/14	849.73	1.92	<0.7	<0.24	<0.41	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
08/05/14	845.10	6.55	<0.7	<0.24	<0.41	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
05/31/16	849.09	2.56	NS	<0.44	<0.48	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
08/30/16	844.53	7.12	NS	<0.44	<0.48	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
02/21/18	845.81	5.84	NS	<0.22	<0.25	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
05/14/18	849.14	2.51	NS	<0.22	<0.25	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
08/08/18	844.12	7.53	NS	<0.22	<0.25	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
11/05/18	848.71	2.94	NS	<0.22	<0.25	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
ENFORCEMENT STANDARD ES = Bold			15	5	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			<i>1.5</i>	<i>0.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million
 ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

Well MW-6

PVC Elevation = 854.45 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	1,2-Dichloroethane (DCA) (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
05/31/16	851.32	3.13	NS	<0.44	<0.48	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
08/30/16	850.95	3.50	NS	<0.44	<0.48	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
02/21/18	848.81	5.64	NS	<0.22	<0.25	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
05/14/18	850.99	3.46	NS	<0.22	<0.25	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
08/08/18	850.71	3.74	NS	<0.22	<0.25	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
11/05/18	850.47	3.98	NS	<0.22	<0.25	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
ENFORCEMENT STANDARD ES = Bold			15	5	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			<i>1.5</i>	<i>0.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million
 ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

A.1 Groundwater Analytical Table
Nep's Bar LUST Site BRRTS# 03-04-000980

Well MW-7

PVC Elevation = 849.34 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	1,2-Dichloroethane (DCA) (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
05/31/16	836.65	12.69	NS	<0.44	<0.48	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
08/30/16	834.35	14.99	NS	0.57	<0.48	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
02/21/18	837.86	11.48	NS	<0.22	<0.25	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
05/14/18	839.24	10.10	NS	<0.22	<0.25	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
08/08/18	836.09	13.25	NS	<0.22	<0.25	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
11/05/18	834.42	14.92	NS	<0.22	<0.25	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
ENFORCEMENT STANDARD ES = Bold			15	5	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			<i>1.5</i>	<i>0.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million
 ns = not sampled nm = not measured
 Note: Elevations are presented in feet mean sea level (msl).

Well MW-8

PVC Elevation = 849.22 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	1,2-Dichloroethane (DCA) (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
05/31/16	837.41	11.81	NS	<0.44	<0.48	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
08/30/16	834.50	14.72	NS	<0.44	<0.48	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
02/21/18	838.84	10.38	NS	<0.22	<0.25	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
05/14/18	840.22	9.00	NS	<0.22	<0.25	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
08/08/18	836.22	13.00	NS	<0.22	<0.25	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
11/05/18	835.01	14.21	NS	<0.22	<0.25	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
ENFORCEMENT STANDARD ES = Bold			15	5	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			<i>1.5</i>	<i>0.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million
 ns = not sampled nm = not measured
 Note: Elevations are presented in feet mean sea level (msl).

Private Well 23885 Cty Hwy G

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	1,2-Dichloroethane (DCA) (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
9/17/2012	NM	NM	NS	<0.24	<0.37	<0.31	<0.34	<0.16	<0.14	<0.242	<0.97
11/07/13	NM	NM	<0.7	<0.24	<0.41	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
02/04/14	NM	NM	<0.7	<0.24	<0.41	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
05/01/14	NM	NM	<0.7	<0.24	<0.41	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
08/05/14	NM	NM	<0.7	<0.24	<0.41	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
05/31/16	NM	NM	NS	<0.44	<0.48	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
08/30/16	NM	NM	NS	<0.44	<0.48	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
02/21/18	NM	NM	NS	<0.22	<0.25	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
05/14/18	NM	NM	NS	<0.22	<0.25	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
08/08/18	NM	NM	NS	<0.22	<0.25	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
11/05/18	NM	NM	NS	<0.22	<0.25	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
ENFORCEMENT STANDARD ES = Bold			15	5	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			<i>1.5</i>	<i>0.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million
 ns = not sampled nm = not measured
 Note: Elevations are presented in feet mean sea level (msl).

A.1 Groundwater Analytical Table
(VOC's)

Nep's Bar LUST Site BRRTS# 03-04-000980

Well Sampling Conducted on September 17, 2012

VOC's Well Name	Potable Well	ENFORCEMENT STANDARD = PREVENTIVE ACTION LIMIT =	
		ES - Bold	PAL - Italics
Benzene/ppb	< 0.24	5	<i>0.5</i>
Bromobenzene/ppb	< 0.31	==	==
Bromodichloromethane/ppb	< 0.33	==	==
Bromoform/ppb	< 0.33	==	==
tert-Butylbenzene/ppb	< 0.61	==	==
sec-Butylbenzene/ppb	< 0.47	==	==
n-Butylbenzene/ppb	< 0.25	==	==
Carbon Tetrachloride/ppb	< 1.1	==	==
Chlorobenzene/ppb	< 0.39	==	==
Chloroethane/ppb	< 0.32	==	==
Chloroform/ppb	< 0.3	==	==
Chloromethane/ppb	< 0.25	==	==
2-Chlorotoluene/ppb	< 0.39	==	==
4-Chlorotoluene/ppb	< 0.21	==	==
1,2-Dibromo-3-chloropropane/ppb	< 0.33	==	==
Dibromochloromethane/ppb	< 0.12	==	==
1,4-Dichlorobenzene/ppb	< 0.22	==	==
1,3-Dichlorobenzene/ppb	< 0.34	==	==
1,2-Dichlorobenzene/ppb	< 0.3	==	==
Dichlorodifluoromethane/ppb	< 0.38	==	==
1,2-Dichloroethane/ppb	< 0.37	5	<i>0.5</i>
1,1-Dichloroethane/ppb	< 0.42	==	==
1,1-Dichloroethene/ppb	< 0.38	==	==
cis-1,2-Dichloroethene/ppb	< 0.35	==	==
trans-1,2-Dichloroethene/ppb	< 1.9	==	==
1,2-Dichloropropane/ppb	< 0.21	==	==
2,2-Dichloropropane/ppb	< 0.37	==	==
1,3-Dichloropropane/ppb	< 0.25	==	==
Di-isopropyl ether/ppb	< 0.2	==	==
EDB (1,2-Dibromoethane)/ppb	< 0.27	0.05	<i>0.005</i>
Ethylbenzene/ppb	< 0.31	700	<i>140</i>
Hexachlorobutadiene/ppb	< 0.26	==	==
Isopropylbenzene/ppb	< 0.39	==	==
p-Isopropyltoluene/ppb	< 0.33	==	==
Methylene chloride/ppb	< 0.38	==	==
Methyl tert-butyl ether (MTBE)/ppb	< 0.34	60	<i>12</i>
Naphthalene/ppb	< 0.16	100	<i>10</i>
n-Propylbenzene/ppb	< 0.24	==	==
1,1,2,2-Tetrachloroethane/ppb	< 0.39	==	==
1,1,1,2-Tetrachloroethane/ppb	< 0.4	==	==
Tetrachloroethene (PCE)/ppb	< 0.39	5	<i>0.5</i>
Toluene/ppb	< 0.14	800	<i>160</i>
1,2,4-Trichlorobenzene/ppb	< 0.4	==	==
1,2,3-Trichlorobenzene/ppb	< 0.39	==	==
1,1,1-Trichloroethane/ppb	< 0.4	==	==
1,1,2-Trichloroethane/ppb	< 0.38	==	==
Trichloroethene (TCE)/ppb	< 0.57	5	<i>0.5</i>
Trichlorofluoromethane/ppb	< 0.3	==	==
1,2,4-Trimethylbenzene/ppb	< 0.15		
1,3,5-Trimethylbenzene/ppb	< 0.092	480	<i>96</i>
Vinyl Chloride/ppb	< 0.18	==	==
m&p-Xylene/ppb	< 0.65		
o-Xylene/ppb	< 0.32	2000	<i>400</i>

Bold = NR720 Exceedance

Bold/Underline = NR746 Exceedance

= = No Exceedances

NS = Not Sampled

A.1 Groundwater Analytical Table
Nep's Bar LUST Site BRRTS# 03-04-000980

Well Sampling Conducted on:	9/17/2012	11/07/13	11/07/13	11/07/13	11/07/13	11/07/13	02/04/14	05/01/14	08/05/14	05/31/16	05/31/16	05/31/16	05/31/16	08/30/16
VOC's	Potable Well	MW-1	MW-3	MW-4	MW-5	23885 Cty Hwy G	23885 Cty Hwy G	23885 Cty Hwy G	23885 Cty Hwy G	MW-6	MW-7	MW-8	23885 Cty Hwy G	23885 Cty Hwy G
Lead, dissolved/ppb	NS	43.4	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	NS	NS	NS	NS	NS
Benzene/ppb	< 0.24	23700	8.3	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Bromobenzene/ppb	< 0.31	< 64	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
Bromodichloromethane/ppb	< 0.33	< 74	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46
Bromoform/ppb	< 0.33	< 70	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46
tert-Butylbenzene/ppb	< 0.61	< 72	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
sec-Butylbenzene/ppb	< 0.47	< 66	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
n-Butylbenzene/ppb	< 0.25	< 70	0.37 "J"	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 1	< 1	< 1	< 1	< 1
Carbon Tetrachloride/ppb	< 1.1	< 66	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51
Chlorobenzene/ppb	< 0.39	< 48	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46
Chloroethane/ppb	< 0.32	< 126	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65
Chloroform/ppb	< 0.3	< 56	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43
Chloromethane/ppb	< 0.25	< 162	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
2-Chlorotoluene/ppb	< 0.39	< 42	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
4-Chlorotoluene/ppb	< 0.21	< 42	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
1,2-Dibromo-3-chloropropane/ppb	< 0.33	< 176	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Dibromochloromethane/ppb	< 0.12	< 44	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
1,4-Dichlorobenzene/ppb	< 0.22	< 60	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
1,3-Dichlorobenzene/ppb	< 0.34	< 56	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52
1,2-Dichlorobenzene/ppb	< 0.3	< 72	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46
Dichlorodifluoromethane/ppb	< 0.38	< 88	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87
1,2-Dichloroethane/ppb	< 0.37	1200	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
1,1-Dichloroethane/ppb	< 0.42	< 60	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
1,1-Dichloroethene/ppb	< 0.38	< 80	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65
cis-1,2-Dichloroethene/ppb	< 0.35	< 76	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
trans-1,2-Dichloroethene/ppb	< 1.9	< 70	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54
1,2-Dichloropropane/ppb	< 0.21	< 64	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43
2,2-Dichloropropane/ppb	< 0.37	< 72	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1
1,3-Dichloropropane/ppb	< 0.25	< 66	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
Di-isopropyl ether/ppb	< 0.2	< 46	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
EDB (1,2-Dibromoethane)/ppb	< 0.27	< 88	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Ethylbenzene/ppb	< 0.31	2700	11.8	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71
Hexachlorobutadiene/ppb	< 0.26	< 300	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
Isopropylbenzene/ppb	< 0.39	86 "J"	0.34 "J"	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.82	< 0.82	< 0.82	< 0.82	< 0.82
p-Isopropyltoluene/ppb	< 0.33	< 62	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
Methylene chloride/ppb	< 0.38	< 100	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
Methyl tert-butyl ether (MTBE)/ppb	< 0.34	< 46	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
Naphthalene/ppb	< 0.16	490 "J"	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
n-Propylbenzene/ppb	< 0.24	300	1.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77
1,1,2,2-Tetrachloroethane/ppb	< 0.39	< 90	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52
1,1,1,2-Tetrachloroethane/ppb	< 0.4	< 66	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
Tetrachloroethene (PCE)/ppb	< 0.39	< 66	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
Toluene/ppb	< 0.14	26800	17	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
1,2,4-Trichlorobenzene/ppb	< 0.4	< 196	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
1,2,3-Trichlorobenzene/ppb	< 0.39	< 360	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7
1,1,1-Trichloroethane/ppb	< 0.4	< 66	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.84	< 0.84	< 0.84	< 0.84	< 0.84
1,1,2-Trichloroethane/ppb	< 0.38	< 68	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
Trichloroethene (TCE)/ppb	< 0.57	< 66	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
Trichlorofluoromethane/ppb	< 0.3	< 142	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87
1,2,4-Trimethylbenzene/ppb	< 0.15	2710	9.9	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
1,3,5-Trimethylbenzene/ppb	< 0.092	680 "J"	3.3 "J"	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Vinyl Chloride/ppb	< 0.18	< 36	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
m&p-Xylene/ppb	< 0.65	10000	32	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
o-Xylene/ppb	< 0.32	4300	10.8	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9

ENFORCEMENT STANDARD = ES - Bold	PREVENTIVE ACTION LIMIT = PAL - Italics
15	<i>1.5</i>
5	<i>0.5</i>
==	==
0.6	<i>0.06</i>
4.4	<i>0.44</i>
==	==
5	<i>0.5</i>
==	==
400	<i>80</i>
6	<i>0.6</i>
30	<i>3</i>
==	==
0.2	<i>0.02</i>
60	<i>6</i>
75	<i>15</i>
600	<i>120</i>
600	<i>60</i>
1000	<i>200</i>
5	<i>0.5</i>
850	<i>85</i>
7	<i>0.7</i>
70	<i>7</i>
100	<i>20</i>
5	<i>0.5</i>
==	==
0.05	<i>0.005</i>
700	<i>140</i>
==	==
5	<i>0.5</i>
60	<i>12</i>
100	<i>10</i>
==	==
0.2	<i>0.02</i>
70	<i>7</i>
5	<i>0.5</i>
800	<i>160</i>
70	<i>14</i>
==	==

A.2 Soil Analytical Table
Nep's Bar LUST Site BRRS# 03-04-000980

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naphthalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	1,2-Dichlore-thane (DCA) (ppm)	Other VOC's (ppm)	DIRECT CONTACT			
																		Exceedance Count	Hazard Index	Cumulative Cancer Risk	
G-1-1	3.5	U	09/17/12	400	7.99	NS	830	(22.7)	21	<0.250	6.9	93	5.6	17.6	121	NS	NS	3	0.4612	1.8E-05	
G-1-2	8.0	U	09/17/12	500	10.1	NS	1510	57	51	<0.240	15.6	214	123	38	276*	NS	See VOC Sheet				
G-1-3	12.0	S	09/17/12	280	NS	NS	128	13.4	2.8	<0.250	2.19	15.9	6.8	2.46	159	NS	NS				
G-1-4	16.0	S	09/17/12	100	NS	NS	119	10.3	3.03	<0.250	1.52	15.4	7.9	2.64	17.7	NS	NS				
G-2-1	3.5	U	09/17/12	20	4.93	NS	15	0.066	<0.025	<0.025	0.055	0.047	0.074	0.088	0.058-0.083	NS	NS	0	0.0015	5.1E-08	
G-2-2	8.0	U	09/17/12	300	NS	NS	2250	19.3	60	<0.250	16.6	20	118	41	244.7	NS	NS				
G-2-3	12.0	S	09/17/12	200	NS	NS	153	12.1	4.3	<0.250	2.97	13.2	9.5	3.3	19.8	NS	NS				
G-3-1	3.5	U	09/17/12	0	NOT SAMPLED												NS	NS	0		
G-3-2	8.0	U	09/17/12	0	NOT SAMPLED												NS	NS			
G-3-3	11.0	U	09/17/12	0	NS	NS	<10	1.5	0.540	<0.025	0.187	0.062	0.110	0.305	0.470-0.495	NS	NS				
G-3-4	16.0	U	09/17/12	0	NOT SAMPLED												NS	NS			
G-4-1	3.5	U	09/17/12	NM	11.4	NS	7100	(35)	(178)	<1.250	(54)	36	(520)*	172	(982)*	NS	NS	5	3.7860	5.4E-05	
G-4-2	8.0	U	09/17/12	NM	NS	NS	131	10.7	3.13	<0.250	0.940	17.9	7.1	2.35	17.9	NS	NS				
G-4-3	12.0	S	09/17/12	NM	NS	NS	94	11.2	2.44	<0.250	0.860	16.1	5.5	1.843	14.3	NS	NS				
G-4-4	16.0	S	09/17/12	NM	NS	NS	29	5	0.800	<0.025	0.249	6.7	1.32	0.400	4.57	NS	NS				
G-5-1	3.5	U	09/17/12	NM	5.53	NS	113	6.8	4.6	<0.025	2.68	0.870	11.3	3.6	2.39	NS	NS	1	0.1243	5.3E-06	
G-5-2	8.0	U	09/17/12	NM	NS	NS	76	4.9	2.61	<0.025	1.04	3.8	6.1	2.04	4.96	NS	NS				
G-5-3	12.0	S	09/17/12	NM	NS	NS	52	6.3	1.79	<0.025	0.580	8.6	3.11	0.980	6.34	NS	NS				
G-5-4	16.0	S	09/17/12	NM	NS	NS	51	0.049	1.58	<0.025	0.61	7.5	3.5	1.09	7.03	NS	NS				
G-6-1	3.5	U	09/17/12	NM	15.4	NS	560	(51)	11.4	<0.250	1.03	13.7	2.88	1.25	44.4	NS	NS	2	0.5580	3.3E-05	
G-6-2	8.0	U	09/17/12	NM	NS	NS	229	12.1	7.1	<0.250	2.01	31.3	16	5.3	388*	NS	NS				
G-6-3	11.0	S	09/17/12	NM	NS	NS	53	3.2	1.36	<0.025	0.390	6.7	3.4	1.12	7.84	NS	NS				
G-6-4	16.0	S	09/17/12	NM	NS	NS	<10	0.580	0.229	<0.025	0.043	0.095	0.380	0.125	1.49	NS	NS				
G-7-1	3.5	U	09/17/12	0	NOT SAMPLED												NS	NS	0		
G-7-2	8.0	S	09/17/12	0	NOT SAMPLED												NS	NS			
G-7-3	11.0	S	09/17/12	60	NS	NS	12	0.370	0.037	<0.025	0.330	0.064	0.092	0.610	0.0686	NS	NS				
G-7-4	16.0	S	09/17/12	0	NOT SAMPLED												NS	NS			
G-8-1	0.4	U	09/18/12	0	NOT SAMPLED												NS	NS	0		
G-8-2	7.5	U	09/18/12	0	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	NS				
G-8-3	12.0	S	09/18/12	0	NOT SAMPLED												NS	NS			
G-9-1	3.5	U	09/18/12	0	NOT SAMPLED												NS	NS	0		
G-9-2	7.5	U	09/18/12	0	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	0.036	<0.025	<0.025	<0.075	NS	NS				
G-9-3	12.0	S	09/18/12	0	NOT SAMPLED												NS	NS			
G-10-1	3.5	U	09/18/12	0	NOT SAMPLED												NS	NS	0		
G-10-2	8.0	U	09/18/12	0	NOT SAMPLED												NS	NS			
G-10-3	11.5	S	09/18/12	0	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	NS				
G-10-4	12-16	S	09/18/12	0	NOT SAMPLED												NS	NS			
G-11-1	3.5	U	09/18/12	0	NOT SAMPLED												NS	NS	0		
G-11-2	8.0	U	09/18/12	0	NOT SAMPLED												NS	NS			
G-11-3	12.0	S	09/18/12	0	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	NS				
G-11-4	16.0	S	09/18/12	0	NOT SAMPLED												NS	NS			
G-12-1	3.5	U	09/18/12	0	NOT SAMPLED												NS	NS	0		
G-12-2	8.0	U	09/18/12	0	NOT SAMPLED												NS	NS			
G-12-3	11.5	U	09/18/12	0	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	NS				
Groundwater RCL					27	-	-	0.0051	1.57	0.027	0.6582	1.1072	1.3787		3.96	0.0028	-				
Non-Industrial Direct Contact RCL					400	-	-	1.6	8.02	63.8	5.52	818	219	182	260	0.652	-		1.00E+00	1.00E-05	
Industrial Direct Contact RCL					(800)	-	-	(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(260)	(2.87)	-		1.00E+00	1.00E-05	
Soil Saturation Concentration (C-sat)*					-	-	-	1820*	480*	8870*	-	818*	219*	182*	260*	540*	-				

Bold = Groundwater RCL Exceedance

Bold & Underline = Non Industrial Direct Contact RCL Exceedance

(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance

Bold & Asteric * = C-sat Exceedance

NS = Not Measured

(ppm) = parts per million

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

PID = Photoionization Detector

PVOC's = Petroleum Volatile Organic Compounds

VOC's = Volatile Organic Compounds

Note: Non-Industrial RCLs apply to this site.

U=UNSATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

S=SATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

A.2 Soil Analytical Results Table
Nep's Bar LUST Site BRRTS# 03-04-000980

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naphthalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	1,2-Dichlorethane (DCA) (ppm)	Other VOC's (ppm)	DIRECT CONTACT		
																		Exeedance Count	Hazard Index	Cumulative Cancer Risk
G-12-4	16.0	U	09/18/12	0																
G-13-1	3.5	U	09/18/12	0																
G-13-2	8.0	U	09/18/12	0																
G-13-3	12.0	U	09/18/12	0	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075					
G-13-4	16.0	U	09/18/12	0																
MW-1-1	3.5	U	09/25/13	450																
MW-1-2	8.0	U	09/25/13	750																
MW-1-3	12.0	S	09/25/13	80																
MW-1-4	16.0	S	09/25/13	75																
MW-1-5	20.0	S	09/25/13	70	NS	NS	47	7.6	1.25	<0.025	0.620	9.1	2.2	0.740	7.03					
MW-2-1	3.5	U	09/25/13	0																
MW-2-2	8.0	U	09/25/13	0																
MW-2-3	12.0	U	09/25/13	0																
MW-2-4	16.0	U	09/25/13	4																
MW-2-5	20.0	S	09/25/13	27	NS	NS	42	<0.025	1.85	<0.025	0.820	0.123	4.5	1.57	4.954					
MW-3-1	3.5	U	09/26/13	2																
MW-3-2	8.0	U	09/26/13	10																
MW-3-3	12.0	S	09/26/13	3																
MW-3-4	16.0	S	09/26/13	0																
MW-3-5	16-20	S	09/26/13																	
MW-4-1	3.5	U	09/26/13	0																
MW-4-2	8.0	U	09/26/13	0																
MW-4-3	12.0	U	09/26/13	0																
MW-4-4	16.0	U	09/26/13	0																
MW-4-5	16-20	S	09/26/13																	
MW-5-1	3.5	U	09/26/13	0																
MW-5-2	8.0	S	09/26/13	0																
MW-5-3	12.0	S	09/26/13	0																
MW-5-4	16.0	S	09/26/13	0																
MW-5-5	20.0	S	09/26/13	0																
MW-6-1	3.5	U	04/13/16	1																
MW-6-2	8.0	S	04/13/16	0.9																
MW-6-3	12.0	S	04/13/16	0.9																
MW-6-4	16.0	S	04/13/16	0.8																
MW-6-5	20.0	S	04/13/16	0.8																
MW-7-1	3.5	U	04/13/16	0.7																
MW-7-2	8.0	U	04/13/16	0.8																
MW-7-3	12.0	U	04/13/16	0.8																
MW-7-4	16.0	S	04/13/16	0.8																
Groundwater RCL					27	-	-	0.0051	1.57	0.027	0.6582	1.1072	1.3787		3.96	0.0028				
Non-Industrial Direct Contact RCL					400	-	-	1.6	8.02	63.8	5.52	818	219	182	260	0.652			1.00E+00	1.00E-05
Industrial Direct Contact RCL					(800)	-	-	(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(260)	(2.87)			1.00E+00	1.00E-05
Soil Saturation Concentration (C-sat)*					-	-	-	1820*	480*	8870*	-	818*	219*	182*	260*	540*				

Bold = Groundwater RCL Exceedance

Bold & Underline = Non Industrial Direct Contact RCL Exceedance

(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance

Bold & Asteric * = C-sat Exceedance

NS = Not Measured

(ppm) = parts per million

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

PID = Photoionization Detector

PVOC's = Petroleum Volatile Organic Compounds

VOC's = Volatile Organic Compounds

Note: Non-Industrial RCLs apply to this site.

U=UNSATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

S=SATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

A.2 Soil Analytical Results Table
Nep's Bar LUST Site BRRS# 03-04-000980

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naphthalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	1,2-Dichlore-thane (DCA) (ppm)	Other VOC's (ppm)	DIRECT CONTACT			
																		Exceedance Count	Hazard Index	Cumulative Cancer Risk	
MW-7-5	20.0	S	04/13/16	0.7	NS	NS	<10	<0.016	<0.027	<0.025	<0.087	<0.031	<0.078	<0.089	<0.099	<0.03	NS				
MW-8-1	3.5	U	04/13/16	0.9													NS	0			
MW-8-2	8.0	U	04/13/16	0.9													NS				
MW-8-3	12.0	U	04/13/16	0.9													NS				
MW-8-4	16.0	S	04/13/16	0.9													NS				
MW-8-5	20.0	S	04/13/16	1	NS	NS	<10	<0.016	<0.027	<0.025	<0.087	<0.031	<0.078	<0.089	<0.099	<0.03	NS				
G-1A-1	3.5	U	08/14/17	5000													TCLP Benzene <0.05	0			
G-1A-2	8.0	U	08/14/17	2715													TCLP Benzene <0.05	0			
G-4A-1	3.5	U	08/14/17	2610													TCLP Benzene <0.05	0			
G-6A-1	3.5	U	08/14/17	3681													TCLP Benzene 0.119	0			
EX-1	3	U	11/15/17	210	NS	NS	NS	1.16	1.2	<0.025	2.17	4.6	12.6	14.2	19.9	NS	NS	0	0.1248	1.3E-06	
EX-2	7	U	11/15/17	480	NS	NS	NS	18.6	29.3	<0.125	12	105	74	23.7	158	NS	NS				
EX-3	10	S	11/15/17	210	NS	NS	NS	10.2	7.1	<0.125	3.3	28.4	19.5	6.2	39	NS	NS				
EX-4	12.5	S	11/15/17	312	NS	NS	NS	11.9	3.15	<0.125	1.46	16.5	6.0	2.13	16	NS	NS				
EX-5	3.0	U	11/15/17	5	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	NS	0			
EX-6	7.0	U	11/15/17	143	NS	NS	NS	2.79	0.75	<0.025	0.39	4.9	1.08	0.315	3.93	NS	NS				
EX-7	10.0	S	11/15/17	570	NS	NS	NS	7.2	1.77	<0.025	0.73	9.8	3.3	1.08	7.79	NS	NS				
EX-8	12.5	S	11/15/17	170	NS	NS	NS	7.1	4.6	<0.125	2.28	19.9	15.1	4.6	29.3	NS	NS				
EX-9	3	U	11/15/17	15	NS	NS	NS	0.094	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	NS	0	0.0009	5.9E-08	
EX-10	7	U	11/15/17	15	NS	NS	NS	0.146	<0.025	<0.025	<0.025	<0.025	0.038	<0.025	<0.075	NS	NS				
EX-11	10	S	11/15/17	6	NS	NS	NS	0.38	0.074	<0.025	0.039	0.091	0.151	0.060	0.322	NS	NS				
EX-12	3	U	11/15/17	3	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	NS	0			
EX-13	7	U	11/15/17	148	NS	NS	NS	10.3	9.0	<0.125	3.7	30.1	20.8	6.9	46.2	NS	NS				
EX-14	10	S	11/15/17	110	NS	NS	NS	8.7	2.02	<0.05	0.84	8.8	4.0	1.33	6.7	NS	NS				
EX-15	12.5	S	11/16/17	65	NS	NS	NS	8.4	2.82	<0.25	1.28	15	6.4	2.09	14.4	NS	NS				
EX-16	3	U	11/16/17	7	NS	NS	NS	0.11	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	NS	0	0.001	6.9E-08	
EX-17	7	U	11/16/17	168	NS	NS	NS	2.87	2.67	<0.125	1.42	0.89	7.4	2.94	3.76	NS	NS				
EX-18	10	S	11/16/17	130	NS	NS	NS	5.2	2.68	<0.05	1.09	9.1	5.2	1.6	10.22	NS	NS				
EX-19	12.5	S	11/17/17	460	NS	NS	NS	5.2	1.38	<0.025	0.72	10.50	3.07	0.89	8.58	NS	NS				
EX-20	12.5	S	11/17/17	80	NS	NS	NS	0.35	0.40	<0.025	0.259	0.69	1.65	0.53	2.07	NS	NS				
EX-21	3	U	11/17/17	25	NS	NS	NS	4.6	2.24	<0.025	0.041	0.53	0.47	0.195	7.38	NS	NS	1	0.0551	3.2E-06	
EX-22	7	U	11/17/17	220	NS	NS	NS	2.28	1.46	<0.025	0.57	5.6	3.1	0.96	7.93	NS	NS				
EX-23	10	S	11/17/17	110	NS	NS	NS	2.34	1.07	<0.025	0.51	5.2	3.2	0.99	6.63	NS	NS				
EX-24	3	U	11/17/17	15	NS	NS	NS	0.10	0.041	<0.025	<0.025	0.033	<0.025	<0.025	0.070-0.095	NS	NS	0	0.001	6.8E-08	
EX-25	7	U	11/17/17	32	NS	NS	NS	0.91	1.02	<0.025	0.37	0.059	0.62	0.64	1.11-1.135	NS	NS				
EX-26	10	S	11/17/17	70	NS	NS	NS	1.29	1.49	<0.025	0.56	0.73	2.92	0.92	3.304	NS	NS				
EX-27	3	U	11/17/17	6.5	NS	NS	NS	0.092	<0.025	<0.025	<0.025	0.043	<0.025	<0.025	<0.075	NS	NS	0	0.0009	5.8E-08	
EX-28	7	U	11/17/17	10	NS	NS	NS	0.227	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.095-0.120	NS	NS				
EX-29	10	S	11/17/17	85	NS	NS	NS	1.05	0.74	<0.05	0.35	2.15	1.99	0.64	3.08	NS	NS				
Groundwater RCL					27	-	-	0.0051	1.57	0.027	0.6582	1.1072	1.3787	3.96	0.0028	-					
Non-Industrial Direct Contact RCL					400	-	-	1.6	8.02	63.8	5.52	818	219	182	260	0.652	-		1.00E+00	1.00E-05	
Industrial Direct Contact RCL					(800)	-	-	(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(260)	(2.87)	-		1.00E+00	1.00E-05	
Soil Saturation Concentration (C-sat)*					-	-	-	1820*	480*	8870*	-	818*	219*	182*	260*	540*	-				

Bold = Groundwater RCL Exceedance
Bold & Underline = Non Industrial Direct Contact RCL Exceedance
(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance
Bold & Asteric * = C-sat Exceedance
 NS = Not Measured
 (ppm) = parts per million
 DRO = Diesel Range Organics
 GRO = Gasoline Range Organics
 PID = Photoionization Detector
 PVOC's = Petroleum Volatile Organic Compounds
 VOC's = Volatile Organic Compounds
Note: Non-Industrial RCLs apply to this site.

U=UNSATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)
 S=SATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

A.2 Soil Analytical Results Table
(VOC's)
Nep's Bar LUST Site BRRTS# 03-04-000980

Sampling Conducted on September 17, 2012

VOC's		Bold = Groundwater RCL	Bold = Non- <u>Industrial</u> <u>Direct</u>	& Bold = Industrial Direct	Bold =Soil Saturation (C-sat)
Sample ID#	G-1-2				
Sample Depth/ft.	8				
Solids Percent	83.4	==	==	==	==
Lead/ppm	10.1	27	400	(800)	==
GRO/ppm	1510	==	==	==	==
Benzene/ppm	57	0.0051	1.6	(7.07)	1820*
Bromobenzene/ppm	<0.280	==	342	(679)	==
Bromodichloromethane/ppm	<0.240	0.0003	0.418	(1.83)	==
Bromoform/ppm	<0.400	0.0023	25.4	(113)	==
tert-Butylbenzene/ppm	<1.08	==	183	(183)	183*
sec-Butylbenzene/ppm	1.860 "J"	==	145	(145)	145*
n-Butylbenzene/ppm	10.4	==	108	(108)	108*
Carbon Tetrachloride/ppm	<0.240	0.0039	0.916	(4.03)	==
Chlorobenzene/ppm	<0.188	==	370	(761)	761*
Chloroethane/ppm	<2.84	0.2266	==	==	==
Chloroform/ppm	<0.920	0.0033	0.454	(1.98)	==
Chloromethane/ppm	<4.14	0.0155	159	(669)	==
2-Chlorotoluene/ppm	<1.68	==	907	(907)	907*
4-Chlorotoluene/ppm	<1.52	==	253	(253)	253*
1,2-Dibromo-3-chloropropane/ppm	<1.54	0.0002	0.008	(0.092)	==
Dibromochloromethane/ppm	<0.190	0.032	8.28	(38.9)	==
1,4-Dichlorobenzene/ppm	<1.04	0.144	3.74	(16.4)	==
1,3-Dichlorobenzene/ppm	<1.06	1.1528	297	(297)	297*
1,2-Dichlorobenzene/ppm	<1.02	1.168	376	(376)	376*
Dichlorodifluoromethane/ppm	<0.240	3.0863	126	(530)	==
1,2-Dichloroethane/ppm	<0.260	0.0028	0.652	(2.87)	540*
1,1-Dichloroethane/ppm	<0.220	0.4834	5.06	(22.2)	==
1,1-Dichloroethene/ppm	<0.440	0.005	320	(1190)	1190*
cis-1,2-Dichloroethene/ppm	<0.280	0.0412	156	(2340)	==
trans-1,2-Dichloroethene/ppm	<0.440	0.0626	1560	(1850)	==
1,2-Dichloropropane/ppm	<0.220	0.0033	3.4	(15)	==
2,2-Dichloropropane/ppm	<0.660	==	191	191	191*
1,3-Dichloropropane/ppm	<0.220	==	1490	(1490)	1490*
Di-isopropyl ether/ppm	<0.940	==	2260	(2260)	2260*
EDB (1,2-Dibromoethane)/ppm	<0.340	0.0000282	0.05	(0.221)	==
Ethylbenzene/ppm	51	1.57	8.02	(35.4)	480*
Hexachlorobutadiene/ppm	<1.9	==	1.63	(7.19)	==
Isopropylbenzene/ppm	3.300 "J"	==	==	==	==
p-Isopropyltoluene/ppm	<0.900	==	162	(162)	162*
Methylene chloride/ppm	<2.38	0.0026	61.8	(1150)	==
Methyl tert-butyl ether (MTBE)/ppm	<0.240	0.027	63.8	(282)	8870*
Naphthalene/ppm	15.6	0.6582	5.52	(24.1)	==
n-Propylbenzene/ppm	19.2	==	==	==	==
1,1,2,2-Tetrachloroethane/ppm	<0.400	0.0002	0.81	(3.6)	==
1,1,1,2-Tetrachloroethane/ppm	<0.820	0.0534	2.78	(12.3)	==
Tetrachloroethene (PCE)/ppm	<0.480	0.0045	33	(145)	==
Toluene/ppm	214	1.1072	818	(818)	818*
1,2,4-Trichlorobenzene/ppm	<1.48	0.408	24	(113)	==
1,2,3-Trichlorobenzene/ppm	<2.58	==	62.6	(934)	==
1,1,1-Trichloroethane/ppm	<0.220	0.1402	640	(640)	640*
1,1,2-Trichloroethane/ppm	<0.320	0.0032	1.59	(7.01)	==
Trichloroethene (TCE)/ppm	<0.340	0.0036	1.3	(8.41)	==
Trichlorofluoromethane/ppm	<0.860	4.4775	1230	(1230)	1230*
1,2,4-Trimethylbenzene/ppm	123	1.3787	219	(219)	219*
1,3,5-Trimethylbenzene/ppm	38	==	182	(182)	182*
Vinyl Chloride/ppm	<0.320	0.0001	0.067	(2.08)	==
m&p-Xylene/ppm	199	3.96	260	(260)	260*
o-Xylene/ppm	77	==	==	==	==

NS = not sampled, NM = Not Measured
(ppm) = parts per million
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
== No Standards

Note: Non-Industrial RCLs apply to this site.

A.2 Soil Analytical Table
Nep's Bar LUST Site BRRTS# 03-04-000980

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Organic Compounds										Other VOC's (ppm)	DIRECT CONTACT		
								Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naphthalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	1,2-Dichlore-thane (DCA) (ppm)	Exeedance Count		Hazard Index	Cumulative Cancer Risk	
830	6.0	U	10/16/95	NM	NS	NS	1800	NOT SAMPLED										NS			
831	6.0	U	10/16/95	NM	NS	NS	1900	NOT SAMPLED										NS			
832	3.5	U	10/16/98	NM	NS	NS	4500	NOT SAMPLED										NS			
G-1-1	3.5	U	09/17/12	400	7.99	NS	830	(22.7)	21	<0.250	6.9	93	5.6	17.6	121	NS	NS	3	0.4612	1.8E-05	
G-1-2	8.0	U	09/17/12	500	10.1	NS	1510	57	51	<0.240	15.6	214	123	38	276*	NS	See VOC Sheet				
G-1-3	12.0	S	09/17/12	280	NS	NS	128	13.4	2.8	<0.250	2.19	15.9	6.8	2.46	159	NS	NS				
G-1-4	16.0	S	09/17/12	100	NS	NS	119	10.3	3.03	<0.250	1.52	15.4	7.9	2.64	17.7	NS	NS				
G-2-1	3.5	U	09/17/12	20	4.93	NS	15	0.066	<0.025	<0.025	0.055	0.047	0.074	0.088	0.058-0.083	NS	NS	0	0.0015	5.1E-08	
G-2-2	8.0	U	09/17/12	300	NS	NS	2250	19.3	60	<0.250	16.6	20	118	41	244.7	NS	NS				
G-2-3	12.0	S	09/17/12	200	NS	NS	153	12.1	4.3	<0.250	2.97	13.2	9.5	3.3	19.8	NS	NS				
G-3-1	3.5	U	09/17/12	0	NOT SAMPLED										NS	NS	0				
G-3-2	8.0	U	09/17/12	0	NOT SAMPLED										NS	NS					
G-3-3	11.0	U	09/17/12	0	NS	NS	<10	1.5	0.540	<0.025	0.187	0.062	0.110	0.305	0.470-0.495	NS	NS				
G-3-4	16.0	U	09/17/12	0	NOT SAMPLED										NS	NS					
G-4-1	3.5	U	09/17/12	NM	11.4	NS	7100	(35)	(178)	<1.250	(54)	36	(520)*	172	(982)*	NS	NS	5	3.7860	5.4E-05	
G-4-2	8.0	U	09/17/12	NM	NS	NS	131	10.7	3.13	<0.250	0.940	17.9	7.1	2.35	17.9	NS	NS				
G-4-3	12.0	S	09/17/12	NM	NS	NS	94	11.2	2.44	<0.250	0.860	16.1	5.5	1.843	14.3	NS	NS				
G-4-4	16.0	S	09/17/12	NM	NS	NS	29	5	0.800	<0.025	0.249	6.7	1.32	0.400	4.67	NS	NS				
G-5-1	3.5	U	09/17/12	NM	5.53	NS	113	6.8	4.6	<0.025	2.68	0.870	11.3	3.6	2.39	NS	NS	1	0.1243	5.3E-06	
G-5-2	8.0	U	09/17/12	NM	NS	NS	76	4.9	2.61	<0.025	1.04	3.8	6.1	2.04	4.96	NS	NS				
G-5-3	12.0	S	09/17/12	NM	NS	NS	52	6.3	1.79	<0.025	0.580	8.6	3.11	0.980	6.34	NS	NS				
G-5-4	16.0	S	09/17/12	NM	NS	NS	51	0.049	1.58	<0.025	0.61	7.5	3.5	1.09	7.03	NS	NS				
G-6-1	3.5	U	09/17/12	NM	15.4	NS	560	(51)	11.4	<0.250	1.03	13.7	2.88	1.25	44.4	NS	NS	2	0.5580	3.3E-05	
G-6-2	8.0	U	09/17/12	NM	NS	NS	229	12.1	7.1	<0.250	2.01	31.3	16	5.3	388*	NS	NS				
G-6-3	11.0	S	09/17/12	NM	NS	NS	53	3.2	1.36	<0.025	0.390	6.7	3.4	1.12	7.84	NS	NS				
G-6-4	16.0	S	09/17/12	NM	NS	NS	<10	0.580	0.229	<0.025	0.043	0.095	0.380	0.125	1.49	NS	NS				
G-7-1	3.5	U	09/17/12	0	NOT SAMPLED										NS	NS	0				
G-7-2	8.0	S	09/17/12	0	NOT SAMPLED										NS	NS					
G-7-3	11.0	S	09/17/12	60	NS	NS	12	0.370	0.037	<0.025	0.330	0.064	0.092	0.610	0.0686	NS	NS				
G-7-4	16.0	S	09/17/12	0	NOT SAMPLED										NS	NS					
G-8-1	0.4	U	09/18/12	0	NOT SAMPLED										NS	NS	0				
G-8-2	7.5	U	09/18/12	0	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	NS				
G-8-3	12.0	S	09/18/12	0	NOT SAMPLED										NS	NS					
G-9-1	3.5	U	09/18/12	0	NOT SAMPLED										NS	NS	0				
G-9-2	7.5	U	09/18/12	0	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	0.036	<0.025	<0.025	<0.075	NS	NS				
G-9-3	12.0	S	09/18/12	0	NOT SAMPLED										NS	NS					
G-10-1	3.5	U	09/18/12	0	NOT SAMPLED										NS	NS	0				
G-10-2	8.0	U	09/18/12	0	NOT SAMPLED										NS	NS					
G-10-3	11.5	S	09/18/12	0	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	NS				
G-10-4	12-16	S	09/18/12	0	NOT SAMPLED										NS	NS					
G-11-1	3.5	U	09/18/12	0	NOT SAMPLED										NS	NS	0				
G-11-2	8.0	U	09/18/12	0	NOT SAMPLED										NS	NS					
G-11-3	12.0	S	09/18/12	0	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	NS				
G-11-4	16.0	S	09/18/12	0	NOT SAMPLED										NS	NS					
G-12-1	3.5	U	09/18/12	0	NOT SAMPLED										NS	NS	0				
G-12-2	8.0	U	09/18/12	0	NOT SAMPLED										NS	NS					
G-12-3	11.5	U	09/18/12	0	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	NS				
Groundwater RCL					27	-	-	0.0051	1.57	0.027	0.6582	1.1072	1.3787	3.96	0.0028	-					
Non-Industrial Direct Contact RCL					400	-	-	1.6	8.02	63.8	5.52	818	219	182	260	0.652	-		1.00E+00	1.00E-05	
Industrial Direct Contact RCL					(800)	-	-	(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(260)	(2.87)	-		1.00E+00	1.00E-05	
Soil Saturation Concentration (C-sat)*					-	-	-	1820*	480*	8870*	-	818*	219*	182*	260*	540*	-				

Groundwater RCL Exceedance

Bold & Underline = Non Industrial Direct Contact RCL Exceedance

Bold & Parentheses = Industrial Direct Contact RCL Exceedance

Bold & Asteric * = C-sat Exceedance

NS = Not Measured

(ppm) = parts per million

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

PID = Photoionization Detector

PVOC's = Petroleum Volatile Organic Compounds

VOC's = Volatile Organic Compounds

Note: Non-Industrial RCLs apply to this site.

U=UNSATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

S=SATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

A.3 Residual Soil Contamination Table
 Nep's Bar LUST Site BRRTS# 03-04-000980

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)											DIRECT CONTACT		
								Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naphthalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	1,2-Dichlore-thane (DCA) (ppm)	Other VOC's (ppm)	Exceedance Count	Hazard Index	Cumulative Cancer Risk
G-1-4	16.0	S	09/17/12	100	NS	NS	119	10.3	3.03	<0.250	1.52	15.4	7.9	2.64	17.7	NS	NS			
G-3-3	11.0	U	09/17/12	0	NS	NS	<10	1.5	0.540	<0.025	0.187	0.062	0.110	0.305	0.470-0.495	NS	NS			
G-4-4	16.0	S	09/17/12	NM	NS	NS	29	5	0.800	<0.025	0.249	6.7	1.32	0.400	4.57	NS	NS			
G-5-4	16.0	S	09/17/12	NM	NS	NS	51	0.049	1.58	<0.025	0.61	7.5	3.5	1.09	7.03	NS	NS			
G-6-4	16.0	S	09/17/12	NM	NS	NS	<10	0.580	0.229	<0.025	0.043	0.095	0.380	0.125	1.49	NS	NS			
G-7-3	11.0	S	09/17/12	60	NS	NS	12	0.370	0.037	<0.025	0.330	0.064	0.092	0.610	0.0686	NS	NS			
MW-1-5	20.0	S	09/25/13	70	NS	NS	47	7.6	1.25	<0.025	0.620	9.1	2.2	0.740	7.03	NS	NS			
MW-2-5	20.0	S	09/25/13	27	NS	NS	42	<0.025	1.85	<0.025	0.820	0.123	4.5	1.57	4.954	NS	NS			
EX-1	3	U	11/15/17	210	NS	NS	NS	1.16	1.2	<0.025	2.17	4.6	12.6	14.2	19.9	NS	NS	0	0.1248	1.3E-06
EX-2	7	U	11/15/17	480	NS	NS	NS	18.6	29.3	<0.125	12	105	74	23.7	158	NS	NS			
EX-3	10	S	11/15/17	210	NS	NS	NS	10.2	7.1	<0.125	3.3	28.4	19.5	6.2	39	NS	NS			
EX-4	12.5	S	11/15/17	312	NS	NS	NS	11.9	3.15	<0.125	1.46	16.5	6.0	2.13	16	NS	NS			
EX-6	7.0	U	11/15/17	143	NS	NS	NS	2.79	0.75	<0.025	0.39	4.9	1.08	0.315	3.93	NS	NS			
EX-7	10.0	S	11/15/17	570	NS	NS	NS	7.2	1.77	<0.025	0.73	9.8	3.3	1.08	7.79	NS	NS			
EX-8	12.5	S	11/15/17	170	NS	NS	NS	7.1	4.6	<0.125	2.28	19.9	15.1	4.6	29.3	NS	NS			
EX-9	3	U	11/15/17	15	NS	NS	NS	0.094	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	NS	0	0.0009	5.9E-08
EX-10	7	U	11/15/17	15	NS	NS	NS	0.146	<0.025	<0.025	<0.025	<0.025	0.038	<0.025	<0.075	NS	NS			
EX-11	10	S	11/15/17	6	NS	NS	NS	0.38	0.074	<0.025	0.039	0.091	0.151	0.060	0.322	NS	NS			
EX-13	7	U	11/15/17	148	NS	NS	NS	10.3	9.0	<0.125	3.7	30.1	20.8	6.9	46.2	NS	NS			
EX-14	10	S	11/15/17	110	NS	NS	NS	8.7	2.02	<0.05	0.84	8.8	4.0	1.33	6.7	NS	NS			
EX-15	12.5	S	11/16/17	65	NS	NS	NS	8.4	2.82	<0.25	1.28	15	6.4	2.09	14.4	NS	NS			
EX-16	3	U	11/16/17	7	NS	NS	NS	0.11	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	NS	0	0.001	6.9E-08
EX-17	7	U	11/16/17	168	NS	NS	NS	2.87	2.67	<0.125	1.42	0.89	7.4	2.94	3.76	NS	NS			
EX-18	10	S	11/16/17	130	NS	NS	NS	5.2	2.68	<0.05	1.09	9.1	5.2	1.6	10.22	NS	NS			
EX-19	12.5	S	11/17/17	460	NS	NS	NS	5.2	1.38	<0.025	0.72	10.50	3.07	0.89	8.58	NS	NS			
EX-20	12.5	S	11/17/17	80	NS	NS	NS	0.35	0.40	<0.025	0.259	0.69	1.65	0.53	2.07	NS	NS			
EX-21	3	U	11/17/17	25	NS	NS	NS	4.6	2.24	<0.025	0.041	0.53	0.47	0.195	7.38	NS	NS	1	0.0551	3.2E-06
EX-22	7	U	11/17/17	220	NS	NS	NS	2.28	1.46	<0.025	0.57	5.6	3.1	0.96	7.93	NS	NS			
EX-23	10	S	11/17/17	110	NS	NS	NS	2.34	1.07	<0.025	0.51	5.2	3.2	0.99	6.63	NS	NS			
EX-24	3	U	11/17/17	15	NS	NS	NS	0.10	0.041	<0.025	<0.025	0.033	<0.025	<0.025	0.070-0.095	NS	NS	0	0.001	6.8E-08
EX-25	7	U	11/17/17	32	NS	NS	NS	0.91	1.02	<0.025	0.37	0.059	0.62	0.64	1.11-1.135	NS	NS			
EX-26	10	S	11/17/17	70	NS	NS	NS	1.29	1.49	<0.025	0.56	0.73	2.92	0.92	3.304	NS	NS			
EX-27	3	U	11/17/17	6.5	NS	NS	NS	0.092	<0.025	<0.025	<0.025	0.043	<0.025	<0.025	<0.075	NS	NS	0	0.0009	5.8E-08
EX-28	7	U	11/17/17	10	NS	NS	NS	0.227	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.095-0.120	NS	NS			
EX-29	10	S	11/17/17	85	NS	NS	NS	1.05	0.74	<0.05	0.35	2.15	1.99	0.64	3.08	NS	NS			
Groundwater RCL					27	-	-	0.0051	1.57	0.027	0.6582	1.1072	1.3787	3.96	0.0028	-	-			
Non-Industrial Direct Contact RCL					400	-	-	1.6	8.02	63.8	5.52	818	219	182	260	0.652	-	1.00E+00	1.00E-05	
Industrial Direct Contact RCL					(800)	-	-	(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(260)	(2.87)	-	1.00E+00	1.00E-05	
Soil Saturation Concentration (C-sat)*					-	-	-	1820*	480*	8870*	-	818*	219*	182*	260*	540*	-			

Bold = Groundwater RCL Exceedance

Bold & Underline = Non Industrial Direct Contact RCL Exceedance

(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance

Bold & Asteric * = C-sat Exceedance

NS = Not Measured

(ppm) = parts per million

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

PID = Photoionization Detector

PVOC's = Petroleum Volatile Organic Compounds

VOC's = Volatile Organic Compounds

U=UNSATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

S=SATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

A.4 Vapor Analytical Table
 Sub-Slab Sampling Data Table for Nep's Bar
 BY METCO

WDNR

Residential
 Sub-Slab Vapor Action Levels
 for Various VOCs
 Quick Look-Up Table Updated
 November, 2017
 (ug/m³)

Sub-Slab Sampling conducted on: 4/12-13/16 4/12-13/16 4/12-13/16 11/5/2018 11/5/2018 11/5/2018

Sample ID	V-2	V-3	V-4	V-2	V-3	V-4		
Benzene – ug/m ³	0.31J	0.97J	29.1	<0.136	1.12	NS	120	c
Carbon Tetrachloride – ug/m ³	1.2J	1.3J	1.7J	NS	NS	NS	160	c
Chloroform – ug/m ³	<0.33	<0.35	<0.40	NS	NS	NS	40	c
Chloromethane – ug/m ³	<0.19	0.73J	1.7	NS	NS	NS	3100	n
Dichlorodifluoromethane – ug/m ³	2.5	2.7	3.4	NS	NS	NS	3300	n
1,1-Dichloroethane (1,1-DCA) – ug/m ³	<0.27	<0.29	<0.33	NS	NS	NS	600	c
1,2-Dichloroethane (1,2-DCA) - ug/m ³	<0.36	<0.38	<0.43	NS	NS	NS	37	c
1,1-Dichloroethylene (1,1-DCE) – ug/m ³	<0.42	<0.44	<0.50	NS	NS	NS	7000	n
1,2-Dichloroethylene (cis and trans) - ug/m ³	<1.10	<1.14	4.3-5.11	NS	NS	NS	NA	n
Ethylbenzene – ug/m ³	2.2	1.2J	1.8J	5.0	2.99	NS	370	c
Methylene chloride – ug/m ³	<0.95	<0.99	<1.1	NS	NS	NS	21000	n
Methyl Tert-Butyl Ether (MTBE) – ug/m ³	<0.53	<0.55	<0.64	<0.16	<0.16	NS	3700	c
Naphthalene – ug/m ³	67.4	16.1	3.6J	5.3	5.4	NS	28	c
Tetrachloroethylene -ug/m ³	<0.49	<0.51	2.2	NS	NS	NS	1400	n
Toluene – ug/m ³	1.8	1.7	1.5J	11.1	8.3	NS	170000	n
1,1,1-Trichloroethane – ug/m ³	<0.43	<0.45	<0.52	NS	NS	NS	170000	n
Trichloroethylene – ug/m ³	6.8	<0.51	<0.59	NS	NS	NS	70	n
Trichlorofluoromethane (Halcarbon 11) – ug/m ³	1.2J	1.2J	1.3J	NS	NS	NS	NA	n
Trimethylbenzene (1,2,4) – ug/m ³	27.8	10.3	1.8J	23.5	20.9	NS	2100	n
Trimethylbenzene (1,3,5) – ug/m ³	5.2	2.4	<0.39	5.2	4.6	NS	2100	n
Vinyl chloride – ug/m ³	<0.34	<0.36	<0.41	NS	NS	NS	57	c
Xylene (total) -ug/m ³	5.1J	3.0J	<2.44	24.8	18.10	NS	3300	n

ug/m³ = Micrograms per cubic meter.
 < = Less than the reporting limit indicated in parentheses.
Bold = Exceedence of state standards
 c = Carcinogen
Underline = Sub-Slab Standard Exceedance
 J = between Limit of Detection (LOD) and Limit of Quantitation (LOQ)
 * Please note that other VOCs were detected that are not on the WDNR Sub-Slab Vapor Action Levels Quick Look-Up Table.
 NS = not sampled

A.4 Vapor Analytical Table
 Indoor Air Sampling Data Table for Nep's Bar
 BY METCO

Indoor Air Sampling conducted on: 4/12-13/16 11/5/2018

WDNR
Residential
Indoor Air Vapor Action
Levels for Various VOCs
Quick Look-Up Table Updated
November, 2017
 (ug/m³)

Sample ID	V-1	V-1	(ug/m ³)	
Benzene – ug/m ³	1.6	NS	3.6	c
Carbon Tetrachloride – ug/m ³	1.5J	NS	4.7	c
Chloroform – ug/m ³	<0.33	NS	1.2	c
Chloromethane – ug/m ³	5.9	NS	94	n
Dichlorodifluoromethane – ug/m ³	2.8	NS	100	n
1,1-Dichloroethane (1,1-DCA) – ug/m ³	<0.27	NS	18	c
1,2-Dichloroethane (1,2-DCA) - ug/m ³	<0.36	NS	1.1	c
1,1-Dichloroethylene (1,1-DCE) – ug/m ³	<0.42	NS	210	n
1,2-Dichloroethylene (cis and trans) - ug/m ³	<1.10	NS	NA	n
Ethylbenzene – ug/m ³	<0.74	NS	11	c
Methylene chloride – ug/m ³	8.4	NS	630	n
Methyl Tert-Butyl Ether (MTBE) – ug/m ³	<0.53	NS	110	c
Naphthalene – ug/m ³	2.9J	NS	0.83	c
Tetrachloroethylene -ug/m ³	<0.49	NS	42	n
Toluene – ug/m ³	2.5	NS	5200	n
1,1,1-Trichloroethane – ug/m ³	<0.43	NS	5200	n
Trichloroethylene – ug/m ³	<0.48	NS	2.1	n
Trichlorofluoromethane (Halcarbon 11) – ug/m ³	1.2J	NS	NA	n
Trimethylbenzene (1,2,4) – ug/m ³	<0.22	NS	63	n
Trimethylbenzene (1,3,5) – ug/m ³	<0.32	NS	63	n
Vinyl chloride – ug/m ³	<0.34	NS	1.7	c
Xylene (total) -ug/m ³	<2.01	NS	100	n

ug/m³ = Micrograms per cubic meter.

< = Less than the reporting limit indicated in parentheses.

Bold = Exceedence of state standards

c = Carcinogen

Underline = Indoor Residential Air Standard Exceedance

J = between Limit of Detection (LOD) and Limit of Quantitation (LOQ)

* Please note that other VOCs were detected that are not on the WDNR Indoor Air Vapor Action Levels Quick Look-Up Table

NS = Not Sampled

**A.6 Water Level Elevations
Nep's Bar LUST Site BRRS# 03-04-000980
Ashland, Wisconsin**

	MW-1	MW-1R	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8
Ground Surface (feet msl)	854.72	854.78	853.97	854.40	853.46	852.06	854.76	849.52	849.48
pvc top (ft)	854.21	854.31	853.73	854.05	853.22	851.65	854.45	849.34	849.22
Well Depth (feet)	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
Top of screen (feet msl)	884.72	884.78	883.97	884.40	883.46	882.06	884.76	879.52	879.48
Bottom of screen (feet msl)	874.72	874.78	873.97	874.40	873.46	872.06	874.76	869.52	869.48

Depth to Water From Top of PVC (feet)

11/07/13	8.82	NI	DRY	7.85	18.09	6.48	NI	NI	NI
02/04/14	8.85	NI	17.07	8.42	11.05	5.26	NI	NI	NI
05/01/14	4.91	NI	11.47	ICE	7.05	1.92	NI	NI	NI
08/05/14	8.40	NI	14.68	6.79	9.21	6.55	NI	NI	NI
05/31/16	6.54	NI	5.23	4.61	4.06	2.56	3.13	12.69	11.81
08/30/16	6.33	NI	13.55	5.09	6.68	7.12	3.50	14.99	14.72
02/21/18	A	15.07	11.00	8.19	4.09	5.84	5.64	11.48	10.38
05/14/18	A	6.34	9.45	1.56	1.88	2.51	3.46	10.10	9.00
08/08/18	A	3.84	12.31	1.27	5.25	7.53	3.74	13.25	13.00
11/05/18	A	2.33	13.00	Under water	6.30	2.94	3.98	14.92	14.21

Depth to Water From Ground Surface (feet)

11/07/13	9.33	NI	DRY	8.20	18.33	6.89	NI	NI	NI
02/04/14	9.36	NI	17.31	8.77	11.29	5.67	NI	NI	NI
05/01/14	5.42	NI	11.71	ICE	7.29	2.33	NI	NI	NI
08/05/14	8.91	NI	14.92	7.14	9.45	6.96	NI	NI	NI
05/31/16	7.05	NI	5.47	4.96	4.30	2.97	3.44	12.87	12.07
08/30/16	6.84	NI	13.79	5.44	6.92	7.53	3.81	15.17	14.98
02/21/18	A	15.54	11.24	8.54	4.33	6.25	5.95	11.66	10.64
05/14/18	A	6.81	9.69	1.91	2.12	2.92	3.77	10.28	9.26
08/08/18	A	4.31	12.55	1.62	5.49	7.94	4.05	13.43	13.26
11/05/18	A	2.80	13.24	Under water	6.54	3.35	4.29	15.10	14.47

Groundwater Elevation (feet msl)

11/07/13	845.39	NI	DRY	846.20	835.13	845.17	NI	NI	NI
02/04/14	845.36	NI	836.66	845.63	842.17	846.39	NI	NI	NI
05/01/14	849.30	NI	842.26	ICE	846.17	849.73	NI	NI	NI
08/05/14	845.81	NI	839.05	847.26	844.01	845.10	NI	NI	NI
05/31/16	847.67	NI	848.50	849.44	849.16	849.09	851.32	836.65	837.41
08/30/16	847.88	NI	840.18	848.96	846.54	844.53	850.95	834.35	834.50
02/21/18	A	839.24	842.73	845.86	849.13	845.81	848.81	837.86	838.84
05/14/18	A	847.97	844.28	852.49	851.34	849.14	850.99	839.24	840.22
08/08/18	A	850.47	841.42	852.78	847.97	844.12	850.71	836.09	836.22
11/05/18	A	851.98	840.73	Under water	846.92	848.71	850.47	834.42	835.01

Note: Elevations are presented in feet mean sea level (msl).

ICE = Ice frozen in PVC

NI = Not Installed

NM = Not Measured

**A.7 Other
Nep's Bar
Slug Test Calculations**

MW-1

	ft/s	cm/s	m/yr
K	1.16E-06	3.54E-05	11.15
	sq ft/s	sq cm/s	
T	1.29E-05	1.20E-02	

MW-3

	ft/s	cm/s	m/yr
K	3.26E-05	9.94E-04	313.36
	sq ft/s	sq cm/s	
T	3.96E-04	3.68E-01	

MW-5

	ft/s	cm/s	m/yr
K	2.64E-06	8.05E-05	25.38
	sq ft/s	sq cm/s	
T	3.57E-05	3.32E-02	

Date	Elv. (High)	Elv. (Low)	Distance (ft)	Hyd Grad (l)
11/7/2013	846.00	836.00	30	0.3333333
2/4/2014	846.00	838.00	58	0.1379310
5/1/2014	849.00	843.00	50	0.1200000
8/5/2014	847.00	841.00	80	0.0750000
5/31/2016	849.00	836.00	210	0.0619048
8/30/2016	849.00	834.00	210	0.0714286
2/21/2018	849.00	837.00	114	0.1052632
5/14/2018	852.00	839.00	210	0.0619048
8/8/2018	853.00	834.00	210	0.0904762
11/5/2018	852.00	834.00	102	0.1764706

Average

0.1233712

	K (m/yr)	l	n	Flow Velocity (m/yr)
MW-1	11.15	0.1233712	0.3	4.58530
MW-3	313.36	0.1233712	0.3	128.86537
MW-5	25.38	0.1233712	0.3	10.43721

A.7 Other
Groundwater NA Indicator Results
Nep's Bar LUST Site BRRTS# 03-04-000980

Well MW-1/1R

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Man-ganese (ppb)	Methane (ppb)
11/07/13	0.75	7.02	204	9.9	1457	0.7	8.53	<0.06	415	397
02/04/14	0.99	6.48	41	5.0	1334	NS	NS	NS	NS	NS
05/01/14	1.09	6.93	305	1.5	153	NS	NS	NS	NS	NS
08/05/14	0.43	4.24	51	12.1	657	NS	NS	NS	NS	NS
05/31/16	2.96	6.93	269	7.7	336	NS	NS	NS	NS	NS
08/30/16	0.93	6.73	-18	18.9	1887	NS	NS	NS	NS	NS
11/14/17	MW-1 ABANDONED AND REMOVED DURING EXCAVATION PROJECT									
01/25/18	MW-1 WAS REPLACED WITH MW-1R									
02/21/18	0.53	6.85	2	7.0	1105	NS	NS	NS	NS	NS
05/14/18	1.23	7.31	118	7.6	862	NS	NS	NS	NS	NS
08/08/18	0.54	7.48	220	14.0	806	NS	NS	NS	NS	NS
11/05/18	3.11	6.97	-36.2	9.3	1567	NS	NS	NS	NS	NS
ENFORCE MENT STANDARD = ES - Bold						10	-	-	300	-
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>						2	-	-	60	-

(ppb) = parts per billion (ppm) = parts per million
 ns = not sampled nm = not measured
 Note: Elevations are presented in feet mean sea level (msl).

Well MW-2

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Man-ganese (ppb)	Methane (ppb)
11/07/13	DRY									
02/04/14	2.05	6.56	161	4.2	15.4	NS	NS	NS	NS	NS
05/01/14	0.34	6.10	323	7.1	472	NS	NS	NS	NS	NS
08/05/14	1.15	6.28	90	11.1	1146	NS	NS	NS	NS	NS
05/31/16	4.85	6.51	304	9.9	170	NS	NS	NS	NS	NS
08/30/16	2.55	6.93	114	18.5	1201	NS	NS	NS	NS	NS
02/21/18	0.82	6.64	112	8.3	1190	NS	NS	NS	NS	NS
05/14/18	2.12	7.1	267	10.8	412.7	NS	NS	NS	NS	NS
08/08/18	0.60	7.74	213	9.2	485.6	NS	NS	NS	NS	NS
11/05/18	3.09	6.70	9.6	9.67	485	NS	NS	NS	NS	NS
ENFORCE MENT STANDARD = ES - Bold						10	-	-	300	-
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>						2	-	-	60	-

(ppb) = parts per billion (ppm) = parts per million
 ns = not sampled nm = not measured
 Note: Elevations are presented in feet mean sea level (msl).

Well MW-3

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Man-ganese (ppb)	Methane (ppb)
11/07/13	1.07	6.59	150	11.9	1123	<0.1	16.8	<0.06	309	10.4
02/04/14	0.42	5.77	113	8.4	1166	NS	NS	NS	NS	NS
05/01/14	ICE FROZEN IN PVC									
08/05/14	0.94	4.27	99	14.7	1205	NS	NS	NS	NS	NS
05/31/16	2.65	6.89	153	9.3	466	NS	NS	NS	NS	NS
08/30/16	1.46	7.09	11	18.4	1617	NS	NS	NS	NS	NS
02/21/18	0.32	6.92	63	7.6	1356	NS	NS	NS	NS	NS
05/14/18	2.87	7.47	205	7.5	714	NS	NS	NS	NS	NS
08/08/18	3.30	7.84	268	19.1	896	NS	NS	NS	NS	NS
11/05/18	UNDER WATER									
ENFORCE MENT STANDARD = ES - Bold						10	-	-	300	-
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>						2	-	-	60	-

(ppb) = parts per billion (ppm) = parts per million
 ns = not sampled nm = not measured
 Note: Elevations are presented in feet mean sea level (msl).

A.7 Other
Groundwater NA Indicator Results
Nep's Bar LUST Site BRRT's# 03-04-000980

Well MW-4

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)	Methane (ppb)
11/07/13	2.78	7.41	200	7.1	883	0.3	28.3	<0.06	143	1.2
02/04/14	0.99	6.24	166	8.7	905	NS	NS	NS	NS	NS
05/01/14	0.99	6.74	316	5.8	1033	NS	NS	NS	NS	NS
08/05/14	0.67	5.52	175	11.4	1039	NS	NS	NS	NS	NS
05/31/16	4.93	7.28	256	9.2	412	NS	NS	NS	NS	NS
08/30/16	3.78	6.52	214	18.4	1733	NS	NS	NS	NS	NS
02/21/18	2.63	6.67	208	7.2	1078	NS	NS	NS	NS	NS
05/14/18	2.35	7.61	244	10.1	837	NS	NS	NS	NS	NS
08/08/18	1.18	7.83	294	9.7	825	NS	NS	NS	NS	NS
11/05/18	3.02	7.07	9.6	10.57	1332	NS	NS	NS	NS	NS
ENFORCE MENT STANDARD = ES – Bold						10	-	-	300	-
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>						2	-	-	60	-

(ppb) = parts per billion (ppm) = parts per million
 ns = not sampled nm = not measured
 Note: Elevations are presented in feet mean sea level (msl).

Well MW-5

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)	Methane (ppb)
11/07/13	4.42	7.31	196	10.7	768	3.3	22.7	<0.06	122	<1
02/04/14	3.74	7.16	239	2.2	382.4	NS	NS	NS	NS	NS
05/01/14	2.52	6.98	337	4.2	630	NS	NS	NS	NS	NS
08/05/14	2.54	6.14	162	13.9	799	NS	NS	NS	NS	NS
05/31/16	4.29	7.24	258	10.0	276	NS	NS	NS	NS	NS
08/30/16	3.02	6.87	167	18.2	1597	NS	NS	NS	NS	NS
02/21/18	2.25	6.94	178	5.9	757	NS	NS	NS	NS	NS
05/14/18	4.72	9.85	128	9.3	575	NS	NS	NS	NS	NS
08/08/18	1.44	7.83	309	11.2	590	NS	NS	NS	NS	NS
11/05/18	3.08	7.14	20.5	9.97	761	NS	NS	NS	NS	NS
ENFORCE MENT STANDARD = ES – Bold						10	-	-	300	-
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>						2	-	-	60	-

(ppb) = parts per billion (ppm) = parts per million
 ns = not sampled nm = not measured
 Note: Elevations are presented in feet mean sea level (msl).

Well MW-6

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)	Methane (ppb)
05/31/16	12.20	6.96	187	10.8	453	NS	NS	NS	NS	NS
08/30/16	4.73	6.76	267	18.0	1116	NS	NS	NS	NS	NS
02/21/18	1.23	6.83	123	9.1	2206	NS	NS	NS	NS	NS
05/14/18	2.05	7.54	266	10.9	1413	NS	NS	NS	NS	NS
08/08/18	2.41	7.98	267	15.9	818	NS	NS	NS	NS	NS
11/05/18	2.97	7.12	9.2	11.04	2004	NS	NS	NS	NS	NS
ENFORCE MENT STANDARD = ES – Bold						10	-	-	300	-
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>						2	-	-	60	-

(ppb) = parts per billion (ppm) = parts per million
 ns = not sampled nm = not measured
 Note: Elevations are presented in feet mean sea level (msl).

A.7 Other
Groundwater NA Indicator Results
Nep's Bar LUST Site BRRT's# 03-04-000980

Well MW-7

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Man-ganese (ppb)	Methane (ppb)
05/31/16	5.86	7.15	251	8.3	389	NS	NS	NS	NS	NS
08/30/16	3.46	7.27	198	17.9	1216	NS	NS	NS	NS	NS
02/21/18	3.27	7.12	176	6.7	1108	NS	NS	NS	NS	NS
05/14/18	3.13	7.61	239	10.9	827	NS	NS	NS	NS	NS
08/08/18	2.13	8.09	223	8.0	560	NS	NS	NS	NS	NS
11/05/18	3.22	7.10	12.6	7.90	1279	NS	NS	NS	NS	NS
ENFORCE MENT STANDARD = ES – Bold						10	-	-	300	-
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>						2	-	-	60	-

(ppb) = parts per billion (ppm) = parts per million
 ns = not sampled nm = not measured
 Note: Elevations are presented in feet mean sea level (msl).

Well MW-8

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Man-ganese (ppb)	Methane (ppb)
05/31/16	4.43	7.06	193	8.2	350	NS	NS	NS	NS	NS
08/30/16	2.69	7.03	236	18.3	894	NS	NS	NS	NS	NS
02/21/18	2.72	7.16	178	8.2	964	NS	NS	NS	NS	NS
05/14/18	1.63	7.52	261	10.0	851	NS	NS	NS	NS	NS
08/08/18	12.40	8.38	254	7.8	937	NS	NS	NS	NS	NS
11/05/18	3.18	7.22	14.1	8.35	824	NS	NS	NS	NS	NS
ENFORCE MENT STANDARD = ES – Bold						10	-	-	300	-
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>						2	-	-	60	-

(ppb) = parts per billion (ppm) = parts per million
 ns = not sampled nm = not measured
 Note: Elevations are presented in feet mean sea level (msl).

Attachment B/Maps and Figures

B.1 Location Maps

B.1.a Location Map

B.1.b.1 Detailed Site Map

B.1.b.2 Detailed Site Map Close-Up

B.1.c RR Site Map

B.2 Soil Figures

B.2.a Soil Contamination

B.2.b Residual Soil Contamination

B.3 Groundwater Figures

B.3.a.1 Geologic Cross-Section

B.3.a.2 Geologic Cross-Section Figure

B.3.b Groundwater Isoconcentration

B.3.c Groundwater Flow Direction

B.3.d Monitoring Wells

B.4 Vapor Maps and Other Media

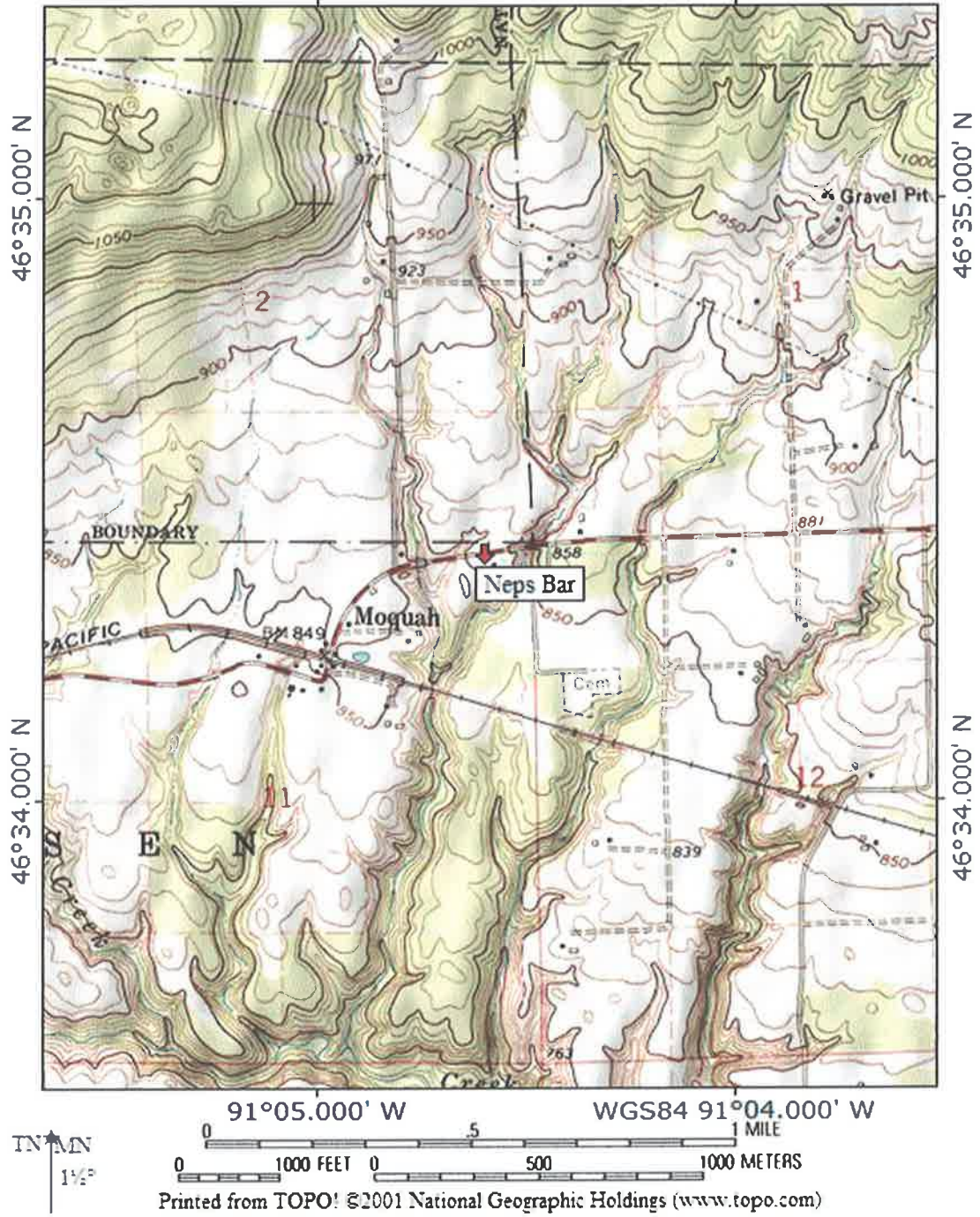
B.4.a Vapor Intrusion Map

B.4.b Other media of concern - No surface waters or sediments were assessed as part of the site investigation.

B.4.c Other – Not applicable.

B.5 Structural Impediment Photos – There were no structural impediments to the completion of the investigation.

TOPO! map printed on 08/14/12 from "wisconsin.tpo" and "Untitled.tpg"
91°05.000' W WGS84 91°04.000' W



B.1.a LOCATION MAP – CONTOUR INTERVAL 10 FEET
NEPS BAR – MOQUAH, WI
SEAMLESS USGS TOPOGRAPHIC MAPS ON CD-ROM


B.I.B.I
 DETAILED SITE MAP
 NEP'S BAR

709 Granite Street, Suite 3
 La Crosse, WI 54603
 Tel: (608) 781-8879
 Fax: (608) 781-8883

METCO


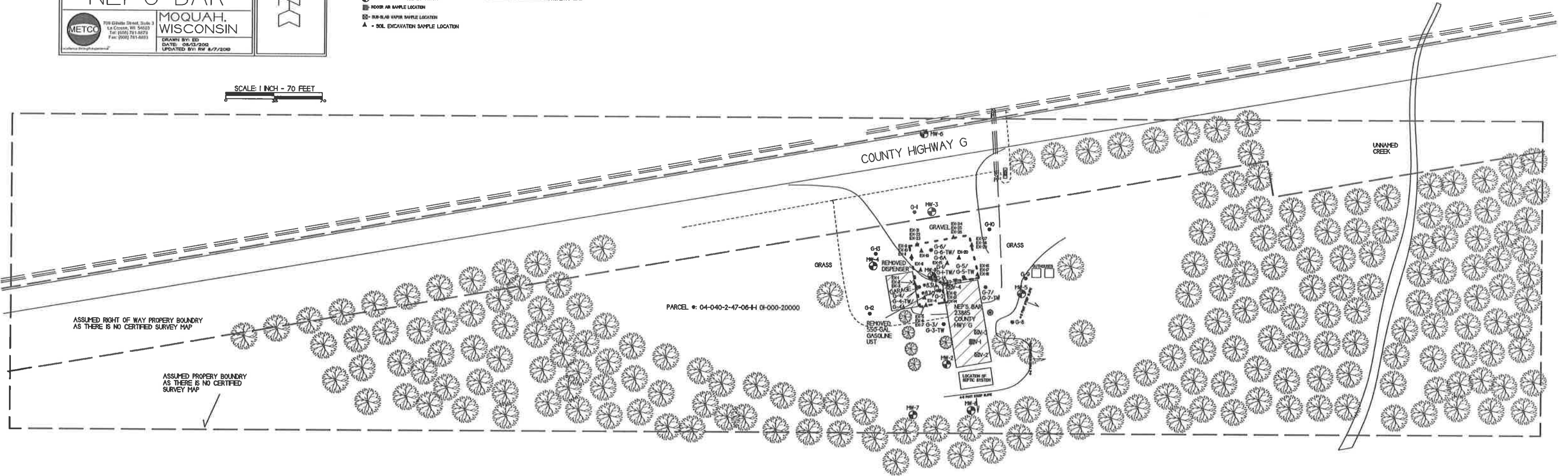
MOQUAH,
 WISCONSIN

DRAWN BY: ED
 DATE: 06/13/2008
 UPDATED BY: RW 8/7/2008



- NOTES: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER.
- - UST CLOSURE SOIL SAMPLING LOCATION
 - - GEOPHONE BORING LOCATION
 - - POTABLE WELL LOCATION
 - - MONITORING WELL LOCATION
 - - DOOR AIR SAMPLE LOCATION
 - - SUB-SLAB VAPOR SAMPLE LOCATION
 - ▲ - SOIL EXCAVATION SAMPLE LOCATION
- - - - - AREA OF SOIL EXCAVATION
 - — — — — BURIED ELECTRIC LINE
 - - - - - TELEPHONE
 - ==== OVERHEAD ELECTRIC LINE
 - — — — — PROPERTY LINE

SCALE: 1 INCH = 70 FEET

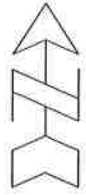



B.I.b.2 DETAILED
SITE MAP CLOSE-UP
NEP'S BAR



MOQUAH,
WISCONSIN

DRAWN BY: ED
DATE: 08/13/2012
UPDATED BY: RW 8/7/2019

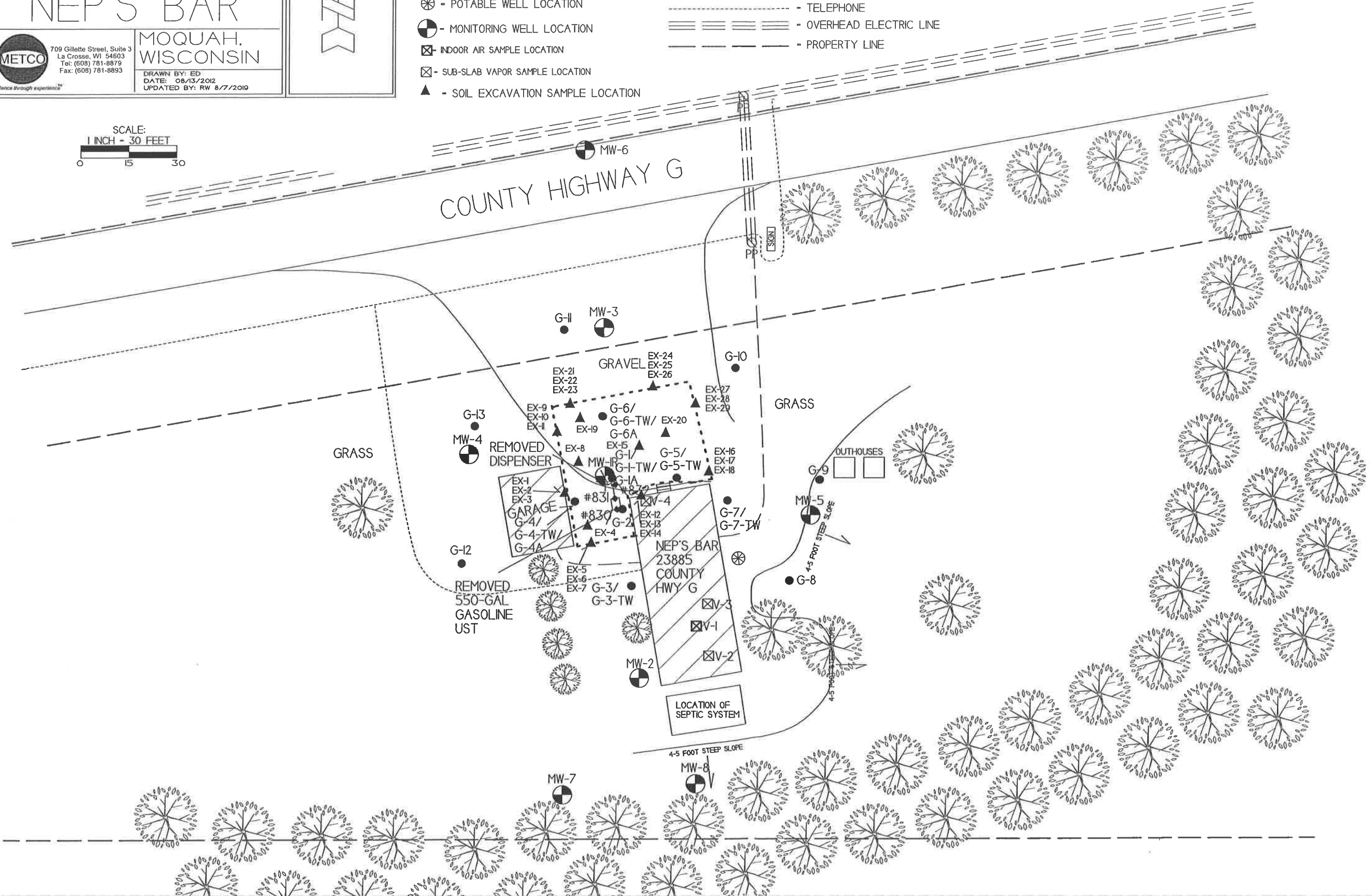
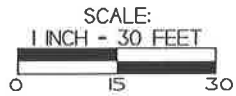


NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

- ◆ - UST CLOSURE SOIL SAMPLING LOCATION
- - GEOPROBE BORING LOCATION
- ⊗ - POTABLE WELL LOCATION
- ⊕ - MONITORING WELL LOCATION
- ⊠ - INDOOR AIR SAMPLE LOCATION
- ⊞ - SUB-SLAB VAPOR SAMPLE LOCATION
- ▲ - SOIL EXCAVATION SAMPLE LOCATION

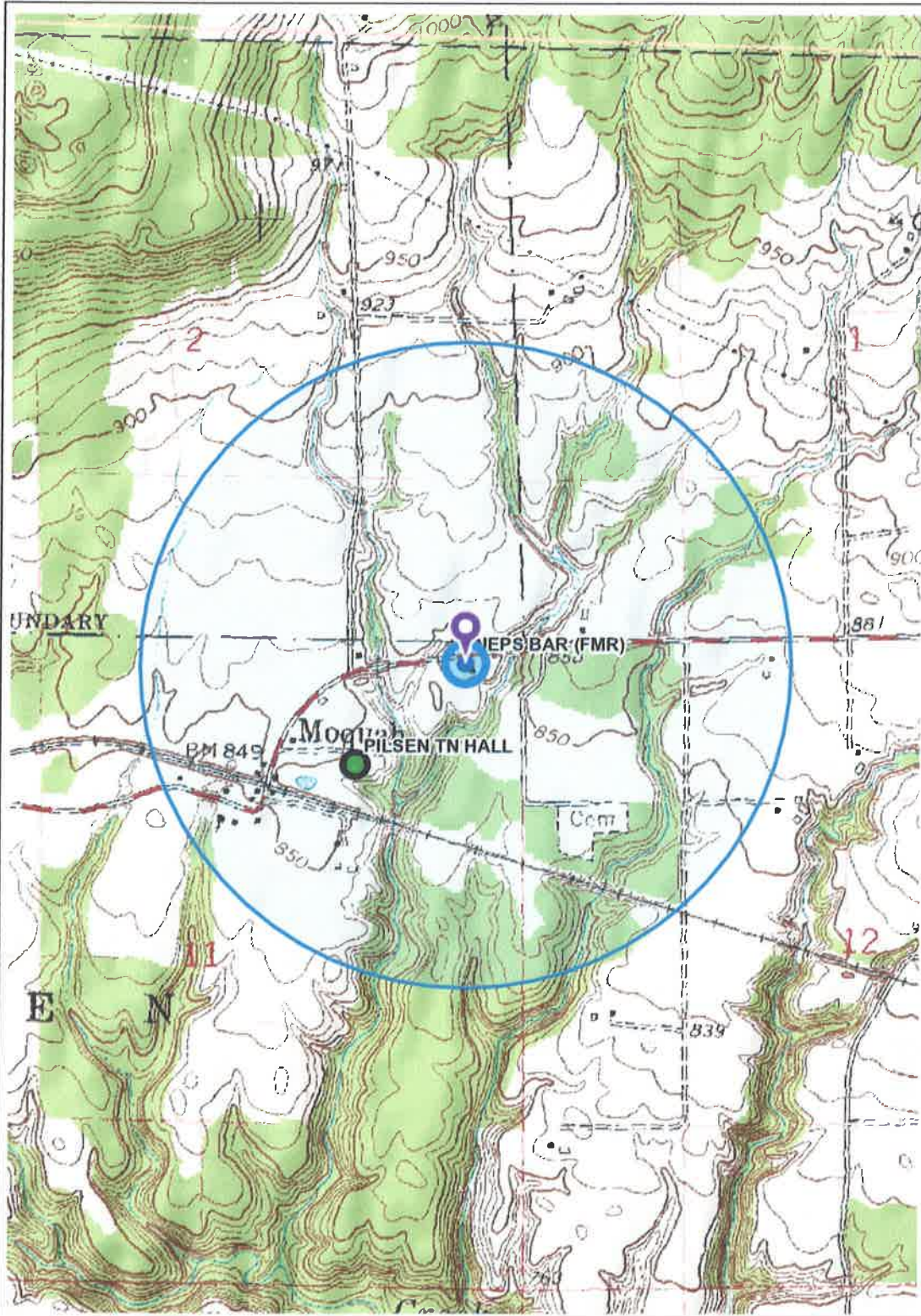
--- - AREA OF SOIL EXCAVATION

- - BURIED ELECTRIC LINE
- - - - TELEPHONE
- ==== OVERHEAD ELECTRIC LINE
- - - - PROPERTY LINE





B.1.c RR Site Map



Legend

- Open Site
- Closed Site
- Continuing Obligations Apply
- Facility-wide Site

0.3 0 0.3 Miles

NAD_1983_HARN_Wisconsin_TM

1: 15,840



Notes

DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made regarding accuracy, applicability for a particular use, completeness, or legality of the information depicted on this map. For more information, see the DNR Legal Notices web page: <http://dnr.wi.gov/org/legal/>

Note: Not all sites are mapped.

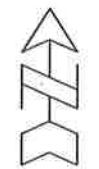
CEP
12/16/19
12/16/19

B.2.a
SOIL CONTAMINATION
NEP'S BAR

709 Gillette Street, Suite 3
La Crosse, WI 54603
Tel: (608) 781-8873
Fax: (608) 781-8893

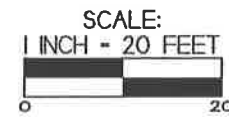
MOQUAH.
WISCONSIN

DRAWN BY: ED
DATE: 08/13/2012
UPDATED BY: RW 6/7/2019



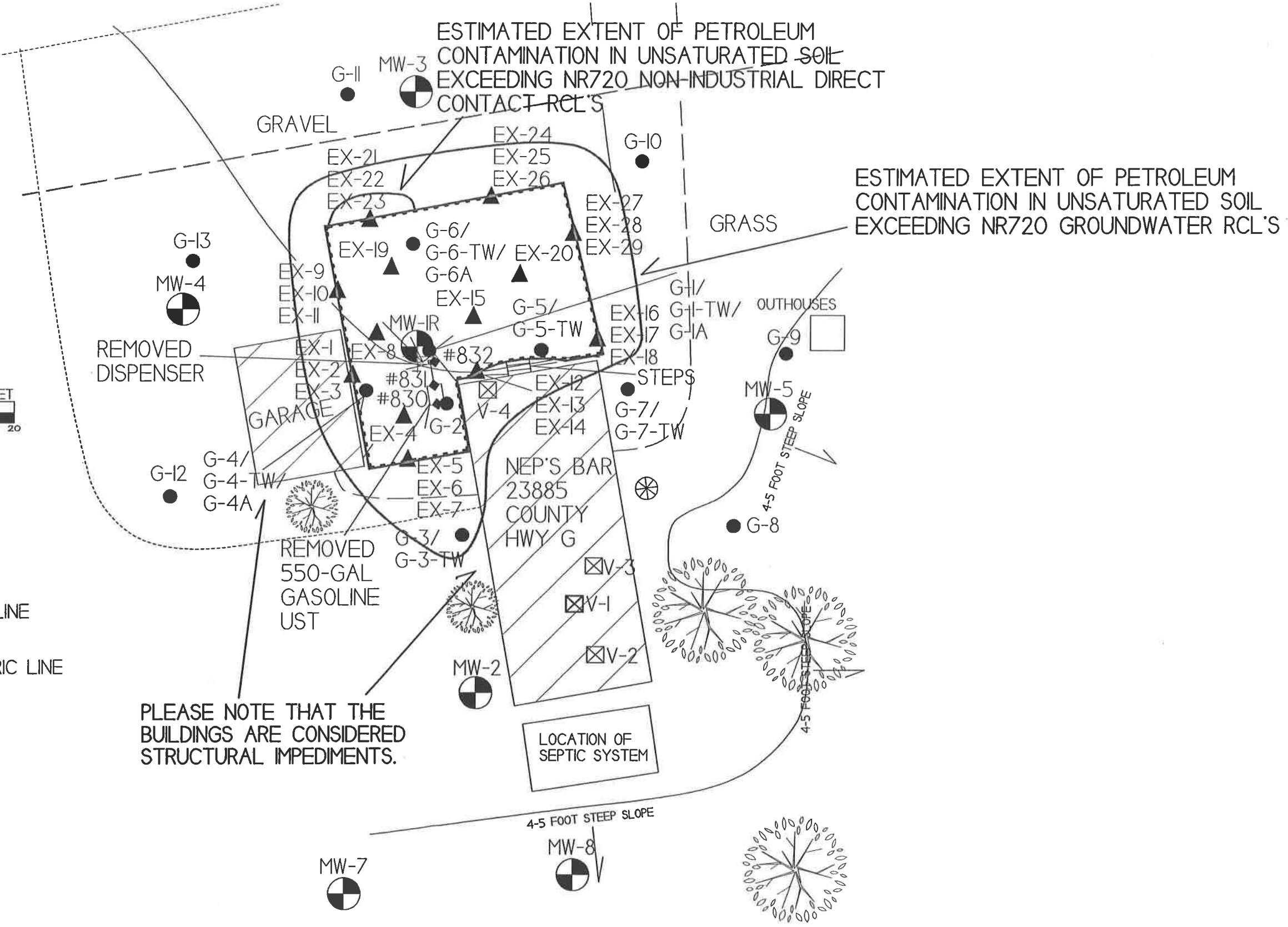
NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

- ◆ - UST CLOSURE SOIL SAMPLING LOCATION
- - GEOPROBE BORING LOCATION
- ⊗ - POTABLE WELL LOCATION
- ⊕ - MONITORING WELL LOCATION
- ⊠ - INDOOR AIR SAMPLE LOCATION
- ⊠ - SUB-SLAB VAPOR SAMPLE LOCATION
- ▲ - SOIL EXCAVATION SAMPLE LOCATION




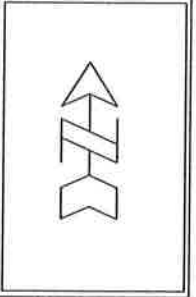
- - BURIED ELECTRIC LINE
- - TELEPHONE
- =====
=====
=====
=====
===== - OVERHEAD ELECTRIC LINE
- - PROPERTY LINE

⊠ - AREA OF SOIL EXCAVATION TO 12 FEET BGS



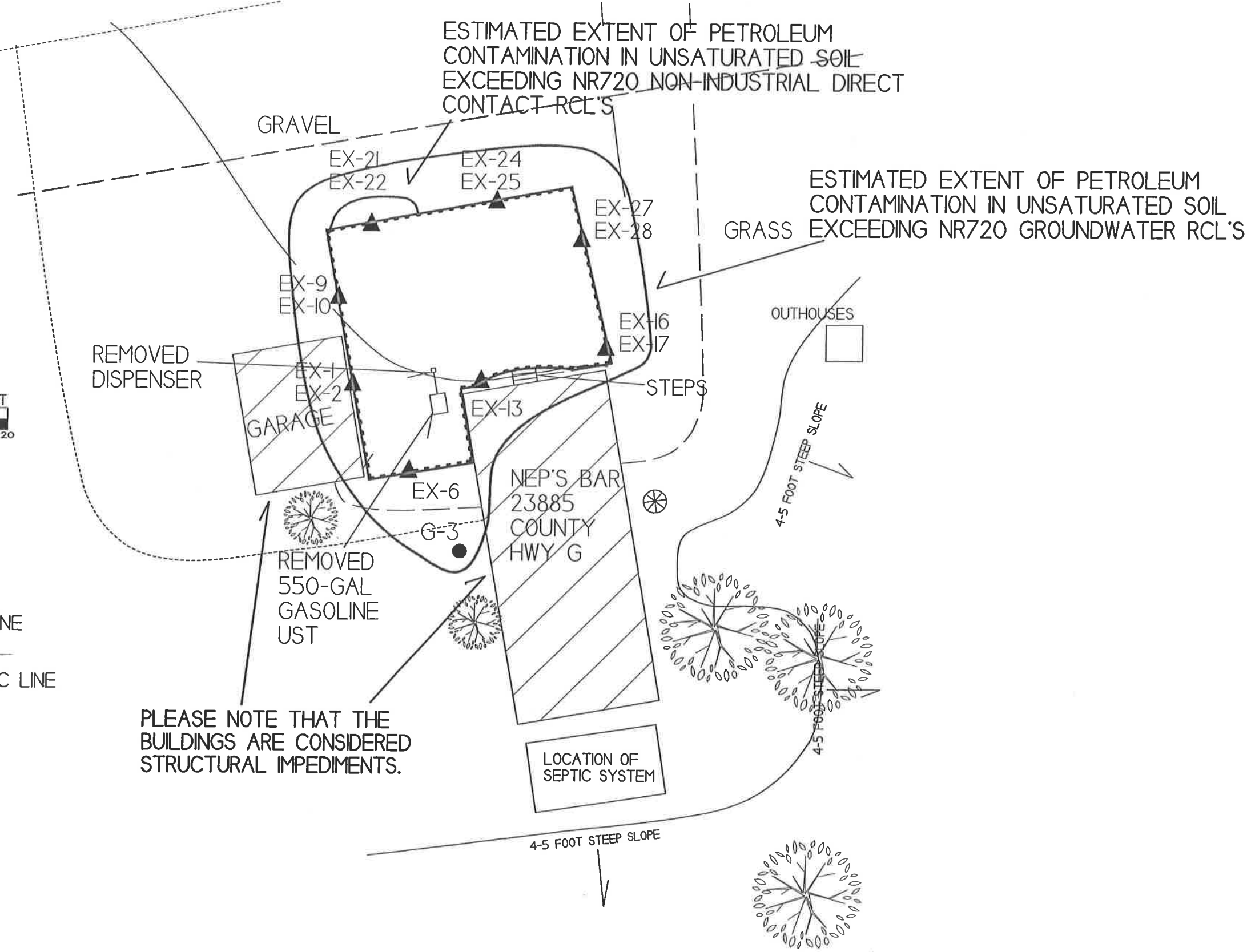
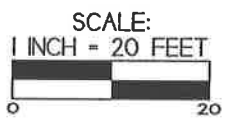
ELL
12/16/19
R
12/16/19

B.2.b RESIDUAL SOIL CONTAMINATION	
NEP'S BAR	
 709 Gilliatte Street, Suite 3 La Crosse, WI 54603 Tel: (608) 781-8879 Fax: (608) 781-8893	MOQUAH, WISCONSIN DRAWN BY: ED DATE: 08/13/2012 UPDATED BY: RW 8/7/2019



NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

- ◆ - UST CLOSURE SOIL SAMPLING LOCATION
- - GEOPROBE BORING LOCATION
- ⊗ - POTABLE WELL LOCATION
- ⊕ - MONITORING WELL LOCATION
- ⊠ - INDOOR AIR SAMPLE LOCATION
- ⊞ - SUB-SLAB VAPOR SAMPLE LOCATION
- ▲ - SOIL EXCAVATION SAMPLE LOCATION
- — — — — - BURIED ELECTRIC LINE
- - - - - - TELEPHONE
- ≡ ≡ ≡ ≡ ≡ ≡ ≡ - OVERHEAD ELECTRIC LINE
- - - - - - PROPERTY LINE
- ⊞ - AREA OF SOIL EXCAVATION TO 12 FEET BGS



B.3.d.1 GEOLOGIC
CROSS SECTION

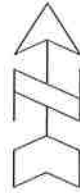
NEP'S BAR

MOQUAH,
WISCONSIN

DRAWN BY: ED
DATE: 08/13/2012
UPDATED BY: RW 8/16/2019

METCO
709 Gillette Street, Suite 3
La Crosse, WI 54603
Tel: (608) 781-8879
Fax: (608) 781-8893

excellence through experience™

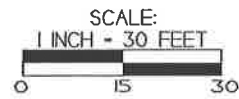


NOTE: INFORMATION BASED ON AVAILABLE
DATA. ACTUAL CONDITIONS MAY DIFFER

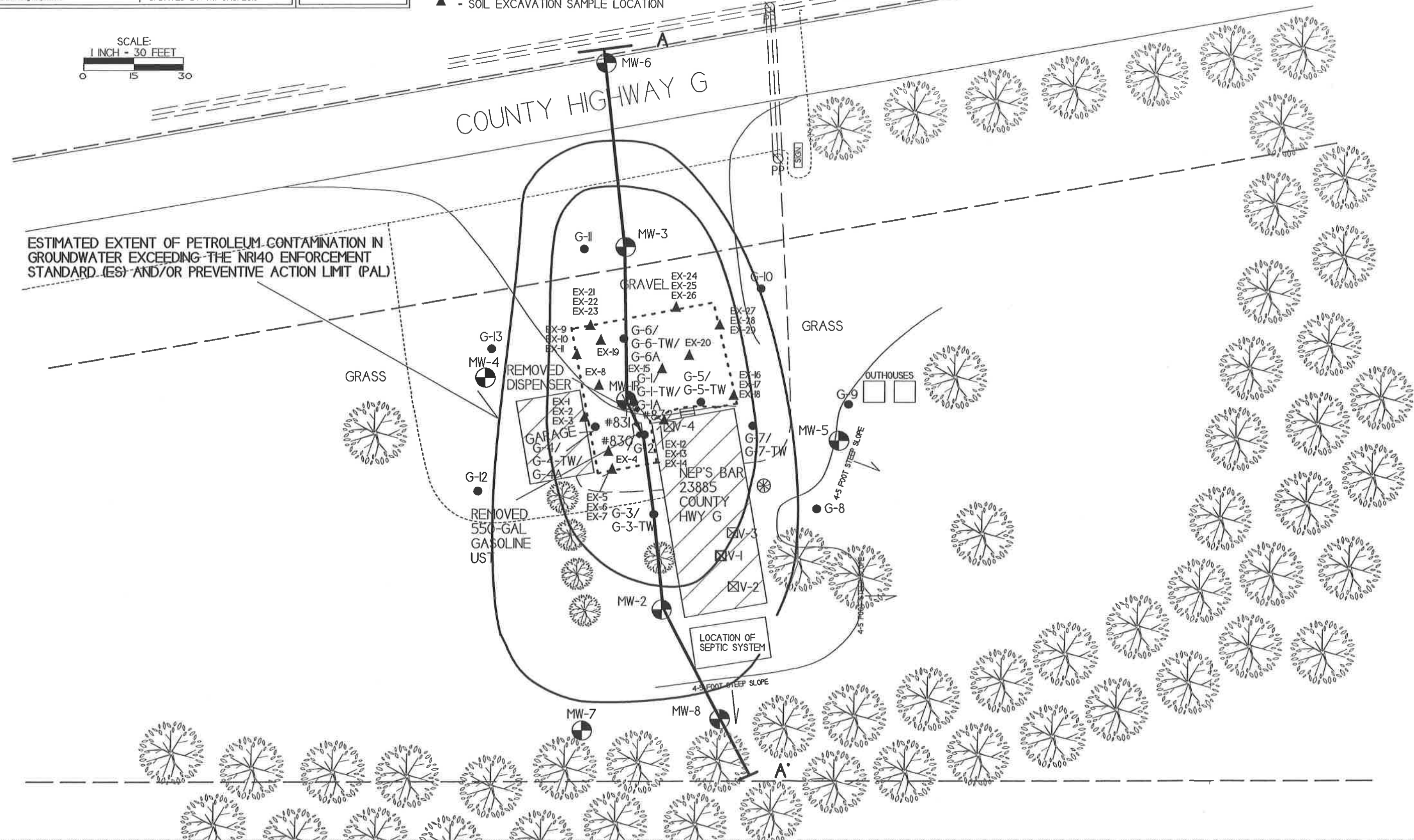
- ◆ - UST CLOSURE SOIL SAMPLING LOCATION
- - GEOPROBE BORING LOCATION
- ⊗ - POTABLE WELL LOCATION
- ⊕ - MONITORING WELL LOCATION
- ⊠ - INDOOR AIR SAMPLE LOCATION
- ⊞ - SUB-SLAB VAPOR SAMPLE LOCATION
- ▲ - SOIL EXCAVATION SAMPLE LOCATION

--- - AREA OF SOIL EXCAVATION

- - BURIED ELECTRIC LINE
- - - - TELEPHONE
- ==== OVERHEAD ELECTRIC LINE
- ==== PROPERTY LINE



ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN
GROUNDWATER EXCEEDING THE NR140 ENFORCEMENT
STANDARD (ES) AND/OR PREVENTIVE ACTION LIMIT (PAL)



B.3.d.2 GEOLOGIC CROSS-SECTION FIGURE

NEP'S BAR



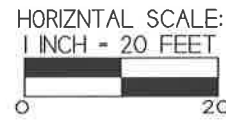
709 Gillette St, Suite 3
La Crosse, WI 54603
Tel: (608) 781-8879
Fax: (608) 781-8893

MOQUAH, WISCONSIN

DRAWN BY: JJ

DATE: 11/03/2014

UPDATED BY: RW 8/12/2019



INFORMATION BASED ON AVAILABLE DATA.
ACTUAL CONDITIONS MAY DIFFER

SOIL SAMPLE RESULTS ARE PRESENTED
IN PARTS PER MILLION (PPM)

GROUNDWATER SAMPLE RESULTS ARE
PRESENTED IN PARTS PER BILLION (PPB)

NOTE: ONLY SOIL AND GROUNDWATER
EXCEEDANCES HAVE BEEN DOCUMENTED
ON THE MAP. SEE DATA TABLES AND/OR
LABORATORY REPORTS FOR ALL RESULTS

NOTE: SOIL AND GROUNDWATER SAMPLE
DATA IS BASED ON LABORATORY RESULTS
FROM SAMPLES COLLECTED DURING THE:
GEOPROBE PROJECT - (9/17-20/2012)
DRILLING PROJECT - (9/25/2013)
GROUNDWATER SAMPLING - (11/05/2018)

- - GEOPROBE BORING LOCATION
- - GEOPROBE BORING SAMPLING LOCATION
- ⊙ - MONITORING WELL LOCATION
- ⊕ - MONITORING WELL SAMPLING LOCATION
- ◆ - UST CLOSURE SOIL SAMPLING LOCATION
- ▼ - WATERTABLE

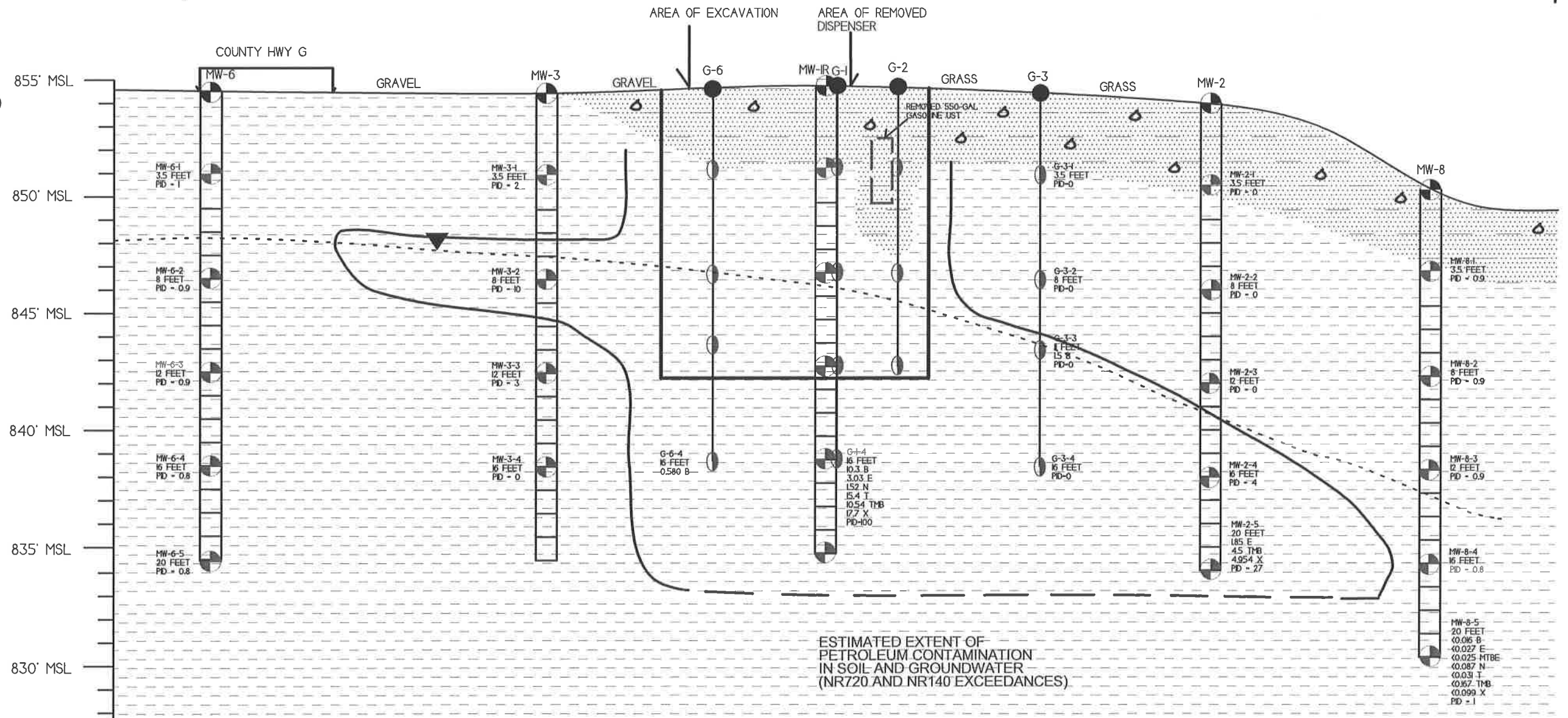
- PID - PHOTO IONIZATION DETECTOR
- PVOC - PETROLEUM VOLATILE ORGANIC COMPOUNDS
- B - BENZENE
- DCA - 1,2-DICHLOROETHANE
- E - ETHYLBENZENE
- MTBE - METHYL TERT-BUTYL ETHER
- N - NAPHTHALENE
- T - TOLUENE
- TMB - TRIMETHYLBENZENE
- X - XYLENE

A
NORTH

A'
SOUTH

RED-TAN-GRAY VERY FINE-COARSE GRAINED SAND TO CLAYEY SAND WITH SOME GRAVEL (FILL)

RED CLAY



ESTIMATED EXTENT OF
PETROLEUM CONTAMINATION
IN SOIL AND GROUNDWATER
(NR20 AND NR140 EXCEEDANCES)

MW-6
0.22 B
0.25 DCA
0.26 E
0.28 MTBE
0.1 N
0.19 T
0.43 TMB
0.72 X

MW-3
0.25 DCA
0.55 E
0.28 MTBE
0.1 N
0.21 T
0.43 TMB
0.72 X

G-6
DRY

MW-R
6.600 B
25 DCA
700 E
0.4 MTBE
1.6 N
3.200 T
1.020 TMB
2.530 X

G-1
19.700 B
2.80 EB
3.70 N
2.100 T
3.300 TMB
13.00 X

G-2
3.140 B
2.270 EB
4.70 N
6.500 T
2.540 TMB
1.30 X

G-3
DRY

MW-2
2.96 B
0.25 DCA
5.2 E
0.28 MTBE
0.1 N
0.19 T
5.57 TMB
2.530 X

MW-8
0.22 B
0.25 DCA
0.26 E
0.28 MTBE
0.1 N
0.19 T
0.43 TMB
0.72 X

B.3.b GROUNDWATER ISOCONCENTRATION (11/5/18)

NEP'S BAR



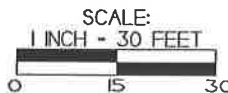
MOQUAH, WISCONSIN

DRAWN BY: ED
DATE: 06/13/2012
UPDATED BY: RW 8/7/2019



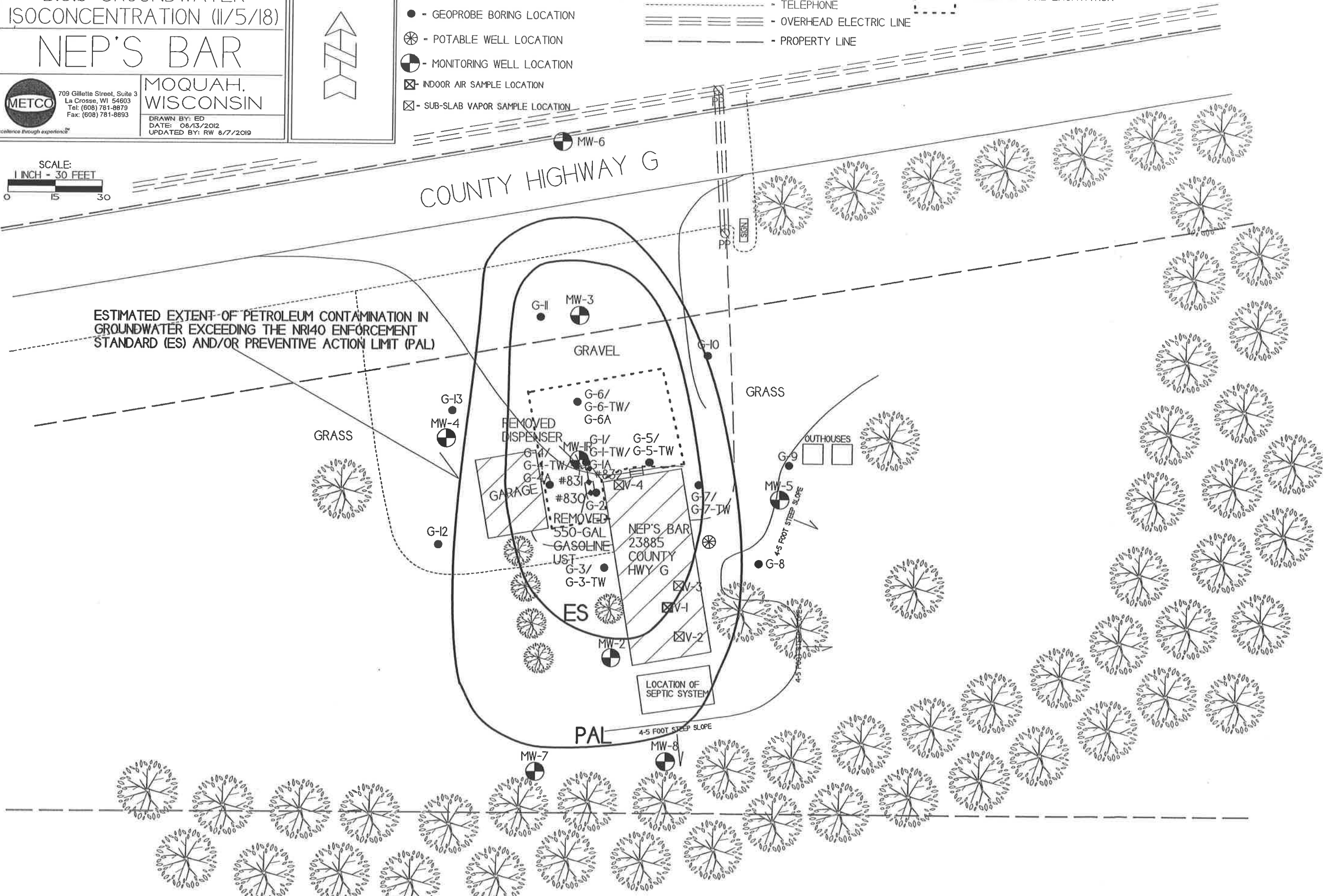
NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

- ◆ - UST CLOSURE SOIL SAMPLING LOCATION
- - GEOPROBE BORING LOCATION
- ⊗ - POTABLE WELL LOCATION
- ⊙ - MONITORING WELL LOCATION
- ⊠ - INDOOR AIR SAMPLE LOCATION
- ⊡ - SUB-SLAB VAPOR SAMPLE LOCATION
- - BURIED ELECTRIC LINE
- - - - TELEPHONE
- ==== OVERHEAD ELECTRIC LINE
- - PROPERTY LINE
- ⬜ - AREA OF SOIL EXCAVATION



COUNTY HIGHWAY G

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN GROUNDWATER EXCEEDING THE NR140 ENFORCEMENT STANDARD (ES) AND/OR PREVENTIVE ACTION LIMIT (PAL)

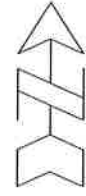


B.3.c GROUNDWATER FLOW DIRECTION (11/5/18)

NEP'S BAR

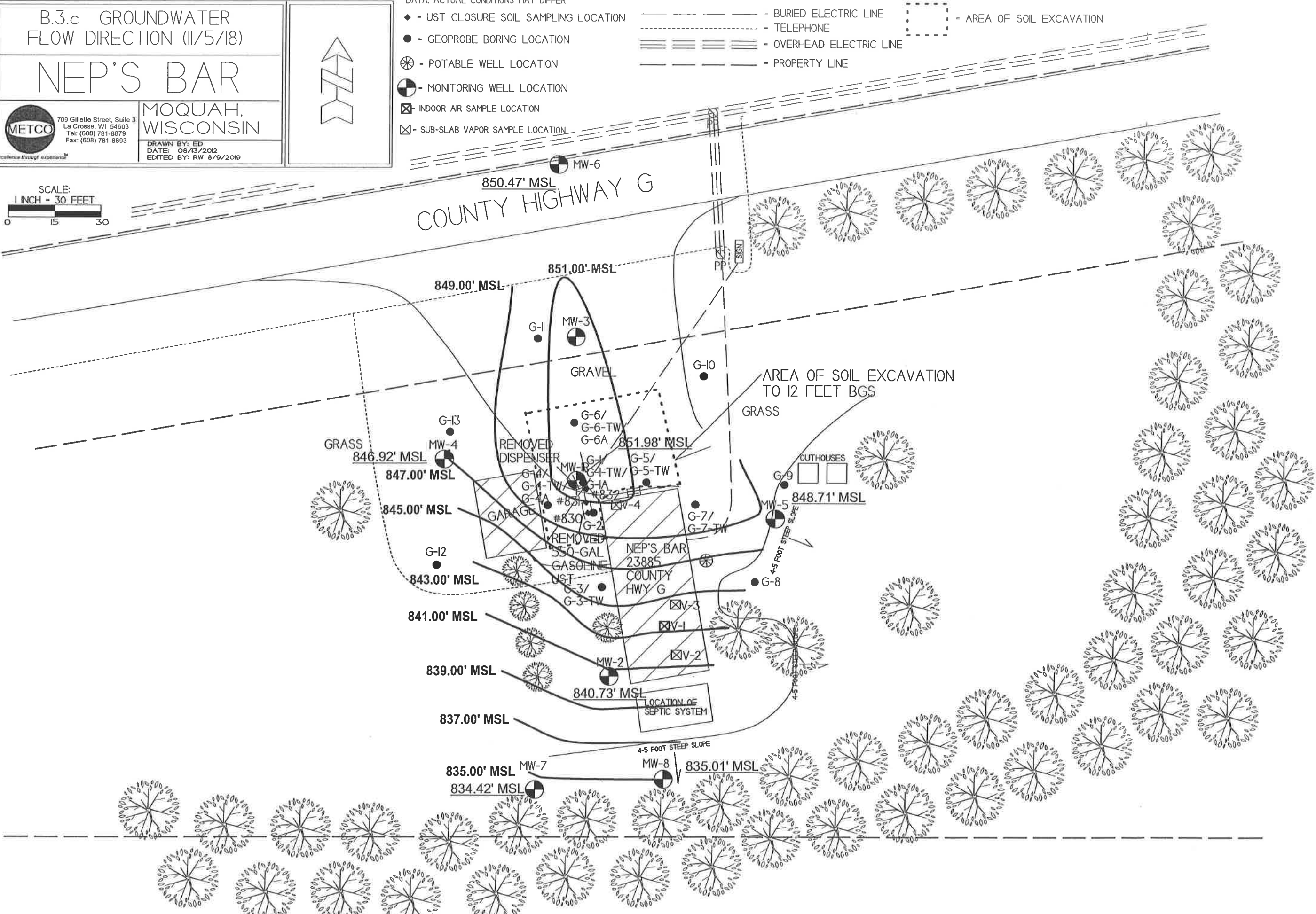
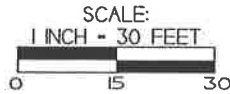
MOQUAH, WISCONSIN

DRAWN BY: ED
DATE: 08/13/2012
EDITED BY: RW 8/9/2019



NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

- ◆ - UST CLOSURE SOIL SAMPLING LOCATION
- - GEOPROBE BORING LOCATION
- ⊗ - POTABLE WELL LOCATION
- ⊙ - MONITORING WELL LOCATION
- ⊠ - INDOOR AIR SAMPLE LOCATION
- ⊡ - SUB-SLAB VAPOR SAMPLE LOCATION
- - BURIED ELECTRIC LINE
- - - - TELEPHONE
- ==== OVERHEAD ELECTRIC LINE
- - - - PROPERTY LINE
- ⊡ - AREA OF SOIL EXCAVATION

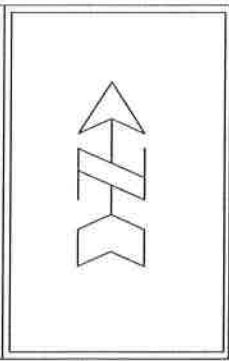


B.3.d
MONITORING WELLS
NEP'S BAR

MOQUAH,
WISCONSIN

METCO
709 Gillette Street, Suite 3
La Crosse, WI 54603
Tel: (608) 781-8879
Fax: (608) 781-8893

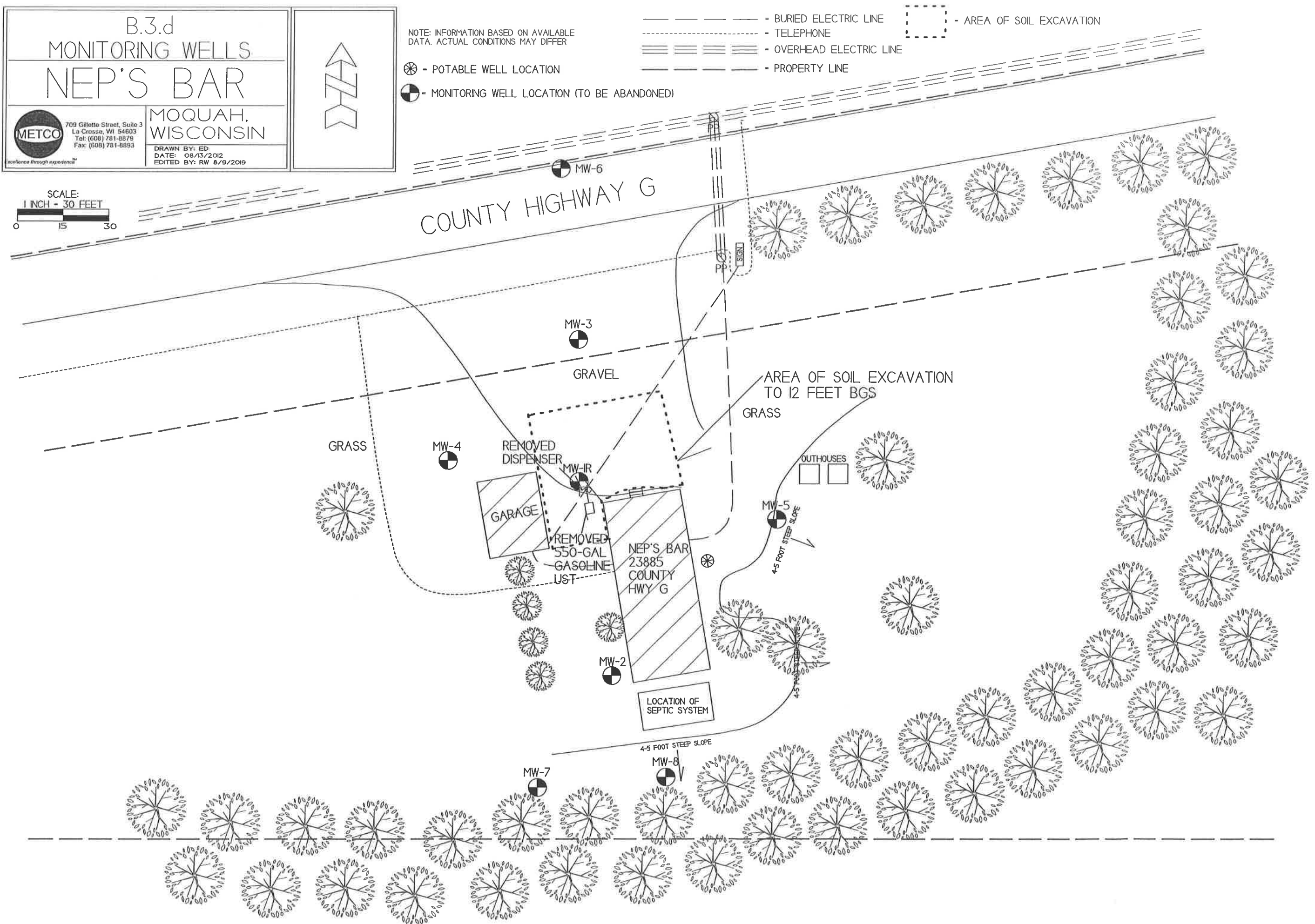
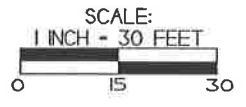
DRAWN BY: ED
DATE: 08/13/2012
EDITED BY: RW 8/9/2019



NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

- ⊗ - POTABLE WELL LOCATION
- ⊙ - MONITORING WELL LOCATION (TO BE ABANDONED)

- - BURIED ELECTRIC LINE
- - - - TELEPHONE
- ==== OVERHEAD ELECTRIC LINE
- - - - PROPERTY LINE
- - AREA OF SOIL EXCAVATION

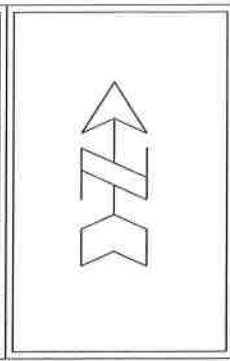


B.4.a VAPOR INTRUSION MAP

NEP'S BAR



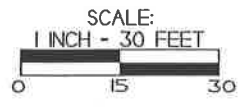
MOQUAH, WISCONSIN
 DRAWN BY: ED
 DATE: 08/13/2012
 EDITED BY: RW 8/9/2019



NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

- ☒ INDOOR AIR SAMPLE LOCATION
- ☒ SUB-SLAB VAPOR SAMPLE LOCATION
- ⊗ POTABLE WELL LOCATION

- BURIED ELECTRIC LINE
- - - TELEPHONE
- ==== OVERHEAD ELECTRIC LINE
- - - - - PROPERTY LINE
- ⬡ AREA OF SOIL EXCAVATION



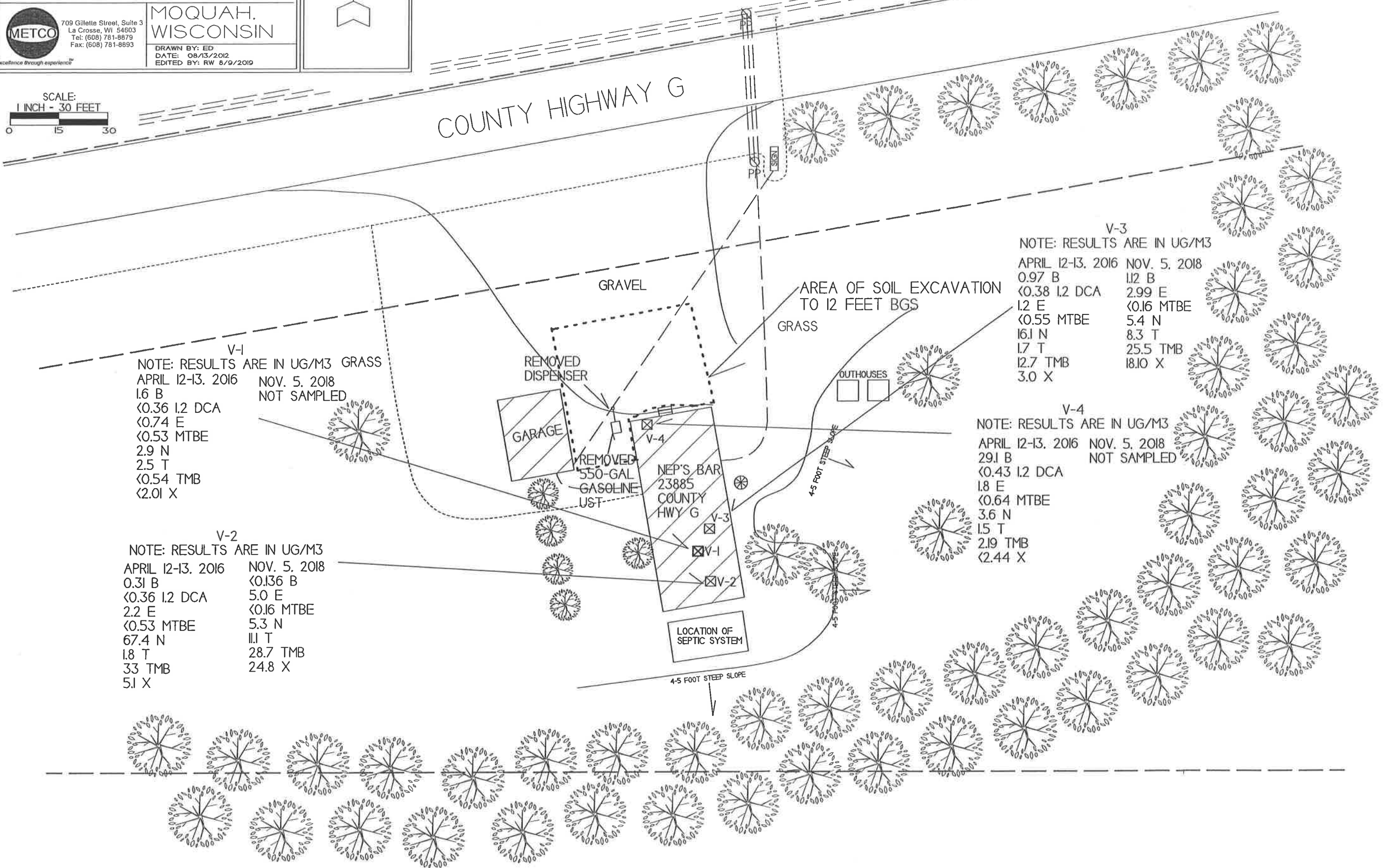
COUNTY HIGHWAY G

V-1
 NOTE: RESULTS ARE IN UG/M3 GRASS
 APRIL 12-13, 2016 NOV. 5, 2018
 1.6 B NOT SAMPLED
 <0.36 I.2 DCA
 <0.74 E
 <0.53 MTBE
 2.9 N
 2.5 T
 <0.54 TMB
 <2.01 X

V-2
 NOTE: RESULTS ARE IN UG/M3
 APRIL 12-13, 2016 NOV. 5, 2018
 0.31 B <0.136 B
 <0.36 I.2 DCA 5.0 E
 2.2 E <0.16 MTBE
 <0.53 MTBE 5.3 N
 67.4 N 11.1 T
 1.8 T 28.7 TMB
 33 TMB 24.8 X
 5.1 X

V-3
 NOTE: RESULTS ARE IN UG/M3
 APRIL 12-13, 2016 NOV. 5, 2018
 0.97 B 1.12 B
 <0.38 I.2 DCA 2.99 E
 1.2 E <0.16 MTBE
 <0.55 MTBE 5.4 N
 16.1 N 8.3 T
 1.7 T 25.5 TMB
 12.7 TMB 18.10 X
 3.0 X

V-4
 NOTE: RESULTS ARE IN UG/M3
 APRIL 12-13, 2016 NOV. 5, 2018
 29.1 B NOT SAMPLED
 <0.43 I.2 DCA
 1.8 E
 <0.64 MTBE
 3.6 N
 1.5 T
 2.19 TMB
 <2.44 X



4-5 FOOT STEEP SLOPE

LOCATION OF SEPTIC SYSTEM

NEP'S BAR
 23885
 COUNTY HWY G

GARAGE

REMOVED DISPENSER

REMOVED 550-GAL GASOLINE UST

OUTHOUSES

AREA OF SOIL EXCAVATION TO 12 FEET BGS

GRASS

GRAVEL

200
12/16/19

R
12/16/19

B.5. Structural Impediment Photos



Photo #1: On site buildings (bar and garage) looking south.

ESP
12/16/19

12/16/19

B.5. Structural Impediment Photos



Photo #2: On site buildings (bar and garage) looking southeast

208
12/14/19

12/16/19

B.5. Structural Impediment Photos



Photo #3: On site building (bar) looking southwest.

Attachment C/Documentation of Remedial Action

C.1 Site Investigation documentation – All other site investigation activities are documented in the following reports:

- Site Investigation Report – December, 2014
- Letter Report - October, 2016
- Letter Report - March, 2018
- Groundwater Monitoring Report – January, 2019

C.2 Investigative waste

C.3 Provide a description of the methodology used along with all supporting documentation if the Residual Contaminant Levels are different than those contained in the Department's RCL Spreadsheet available at: <http://dnr.wi.gov/topic/brownfields.Professionals.html> - Residual Contaminant Levels (RCLs) were established in accordance with NR 720.10 and NR 720.12. Soil RCL for the protection of the groundwater pathway and for non-industrial direct contact were taken from the RR programs RCL spreadsheet.

C.4 Construction documentation – No remedial systems were installed.

C.5 Decommissioning of Remedial Systems – No remedial systems were installed.

C.6 Other – Not Applicable

C.2 Investigative Waste

Ashland Construction Company, Inc.
1721 West 3rd Street
P.O. Box 231
Ashland WI 54806
715-682-4884

Service Invoice

Invoice#: 21056

Date: 11/20/2017

License:

Billed To: NEPS SUTARIK - P.R.
C/O: METCO
709 GILLETTE STREET, SUITE 3
LA CROSSE WI 54603

Project: CONTRACT
NEPS BAR
MOQUAH WI

Date	Description	Ticket #	Quantity	Unit	Unit Price	Ext Price	Sales Tax
11/17/2017	Mobilization		1.00	EACH	500.000	500.00	N
11/17/2017	Excavate Contaminated Soil		1,143.43	TON	6.500	7,432.30	N
11/17/2017	Haul & Disposal of Contaminated Soil		1,143.43	TON	38.760	44,319.35	N
11/17/2017	Backfill material & compacted		888.50	TON	10.500	9,329.25	N
11/17/2017	Gravel & compacted		153.60	TON	18.000	2,764.80	N

Per contract

A service charge of 18.00% per annum will be charged on all amounts overdue on regular statement dates.

Thank you for your prompt payment!

Non-Taxable Amount:	64,345.70
Taxable Amount:	0.00
Sales Tax:	0.00
Amount Due	64,345.70



Vonco V Waste Management Campus
 100 West Gary Street
 Duluth, MN 55808
 Permit: SW 536

001456 - Ashland Construction Co Inc					
Date	Ticket	Customer	Truck	Material	Tons
11/15/2017	294791	17-161-I Former Nep's Bar	PAP9537	Contaminated Soil Tons	21.35
11/15/2017	294793	17-161-I Former Nep's Bar	TS46832	Contaminated Soil Tons	17.76
11/15/2017	294794	17-161-I Former Nep's Bar	PAR4606	Contaminated Soil Tons	22.03
11/15/2017	294795	17-161-I Former Nep's Bar	PAR4603	Contaminated Soil Tons	21.17
11/15/2017	294796	17-161-I Former Nep's Bar	PAP9534	Contaminated Soil Tons	20.49
11/15/2017	294798	17-161-I Former Nep's Bar	PAP9538	Contaminated Soil Tons	20.82
11/15/2017	294806	17-161-I Former Nep's Bar	PAN1943	Contaminated Soil Tons	22.83
11/15/2017	294808	17-161-I Former Nep's Bar	PAP8484	Contaminated Soil Tons	22.08
11/15/2017	294813	17-161-I Former Nep's Bar	TS46832	Contaminated Soil Tons	20.90
11/15/2017	294817	17-161-I Former Nep's Bar	PAP9537	Contaminated Soil Tons	21.71
11/15/2017	294819	17-161-I Former Nep's Bar	PAR4606	Contaminated Soil Tons	22.08
11/15/2017	294824	17-161-I Former Nep's Bar	PAR4603	Contaminated Soil Tons	19.98
11/15/2017	294829	17-161-I Former Nep's Bar	PAP9534	Contaminated Soil Tons	20.87
11/15/2017	294830	17-161-I Former Nep's Bar	PAP9538	Contaminated Soil Tons	21.50
11/15/2017	294833	17-161-I Former Nep's Bar	PAN1943	Contaminated Soil Tons	19.55
11/16/2017	294836	17-161-I Former Nep's Bar	PAN1943	Contaminated Soil Tons	21.14
11/16/2017	294837	17-161-I Former Nep's Bar	PAR4606	Contaminated Soil Tons	23.76
11/16/2017	294838	17-161-I Former Nep's Bar	PAR4603	Contaminated Soil Tons	20.76
11/16/2017	294839	17-161-I Former Nep's Bar	PAP9535	Contaminated Soil Tons	21.07
11/16/2017	294840	17-161-I Former Nep's Bar	PAP8484	Contaminated Soil Tons	20.72
11/16/2017	294841	17-161-I Former Nep's Bar	PAP9537	Contaminated Soil Tons	20.53
11/16/2017	294842	17-161-I Former Nep's Bar	PAP9534	Contaminated Soil Tons	21.91
11/16/2017	294848	17-161-I Former Nep's Bar	TS46832	Contaminated Soil Tons	20.19
11/16/2017	294849	17-161-I Former Nep's Bar	PAR4693	Contaminated Soil Tons	18.56
11/16/2017	294850	17-161-I Former Nep's Bar	PAP0921	Contaminated Soil Tons	20.80
11/16/2017	294863	17-161-I Former Nep's Bar	PAN1943	Contaminated Soil Tons	22.84
11/16/2017	294865	17-161-I Former Nep's Bar	PAP9537	Contaminated Soil Tons	21.61
11/16/2017	294866	17-161-I Former Nep's Bar	PAR4603	Contaminated Soil Tons	20.50
11/16/2017	294870	17-161-I Former Nep's Bar	PAR4606	Contaminated Soil Tons	21.31
11/16/2017	294871	17-161-I Former Nep's Bar	PAP9535	Contaminated Soil Tons	21.02
11/16/2017	294873	17-161-I Former Nep's Bar	PAP9534	Contaminated Soil Tons	20.70
11/16/2017	294874	17-161-I Former Nep's Bar	TS46832	Contaminated Soil Tons	20.91
11/16/2017	294875	17-161-I Former Nep's Bar	PAR4693	Contaminated Soil Tons	21.09
11/16/2017	294876	17-161-I Former Nep's Bar	PAP0921	Contaminated Soil Tons	20.88
11/16/2017	294885	17-161-I Former Nep's Bar	PAN1943	Contaminated Soil Tons	22.21
11/16/2017	294887	17-161-I Former Nep's Bar	PAP9537	Contaminated Soil Tons	21.48



Vonco V Waste Management Campus
 100 West Gary Street
 Duluth, MN 55808
 Permit: SW 536

<i>001456 - Ashland Construction Co Inc</i>					
Date	Ticket	Customer	Truck	Material	Tons
11/16/2017	294889	17-161-I Former Nep's Bar	PAR4606	Contaminated Soil Tons	22.65
11/16/2017	294890	17-161-I Former Nep's Bar	PAP9534	Contaminated Soil Tons	21.24
11/16/2017	294892	17-161-I Former Nep's Bar	PAR4603	Contaminated Soil Tons	22.36
11/16/2017	294894	17-161-I Former Nep's Bar	PAP9535	Contaminated Soil Tons	21.19
11/17/2017	294895	17-161-I Former Nep's Bar	PAN1943	Contaminated Soil Tons	22.09
11/17/2017	294896	17-161-I Former Nep's Bar	PAR4693	Contaminated Soil Tons	20.92
11/17/2017	294897	17-161-I Former Nep's Bar	PAP0921	Contaminated Soil Tons	20.50
11/17/2017	294899	17-161-I Former Nep's Bar	PAP8484	Contaminated Soil Tons	20.70
11/17/2017	294900	17-161-I Former Nep's Bar	PAR4603	Contaminated Soil Tons	21.77
11/17/2017	294906	17-161-I Former Nep's Bar	PAP9534	Contaminated Soil Tons	21.37
11/17/2017	294907	17-161-I Former Nep's Bar	PAP9535	Contaminated Soil Tons	21.76
11/17/2017	294908	17-161-I Former Nep's Bar	PAR4606	Contaminated Soil Tons	21.96
11/17/2017	294909	17-161-I Former Nep's Bar	TS46832	Contaminated Soil Tons	20.59
11/17/2017	294911	17-161-I Former Nep's Bar	PAP9537	Contaminated Soil Tons	21.65
11/17/2017	294921	17-161-I Former Nep's Bar	PAP0921	Contaminated Soil Tons	20.63
11/17/2017	294923	17-161-I Former Nep's Bar	PAP8484	Contaminated Soil Tons	20.20
11/17/2017	294925	17-161-I Former Nep's Bar	PAR4693	Contaminated Soil Tons	21.40
11/17/2017	294926	17-161-I Former Nep's Bar	TS46832	Contaminated Soil Tons	21.34
				Total Tons	1,143.43
				Total Loads	54

Attachment D/Maintenance Plan(s)

D.1 Descriptions of maintenance action(s) required for maximizing effectiveness of the engineered control, vapor mitigation system, feature or other action for which maintenance is required via cap maintenance plan.

D.2 Location map(s)

D.3 Photographs

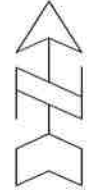
D.4 Inspection log

D.2
LOCATION MAP
NEP'S BAR

MOQUAH, WISCONSIN

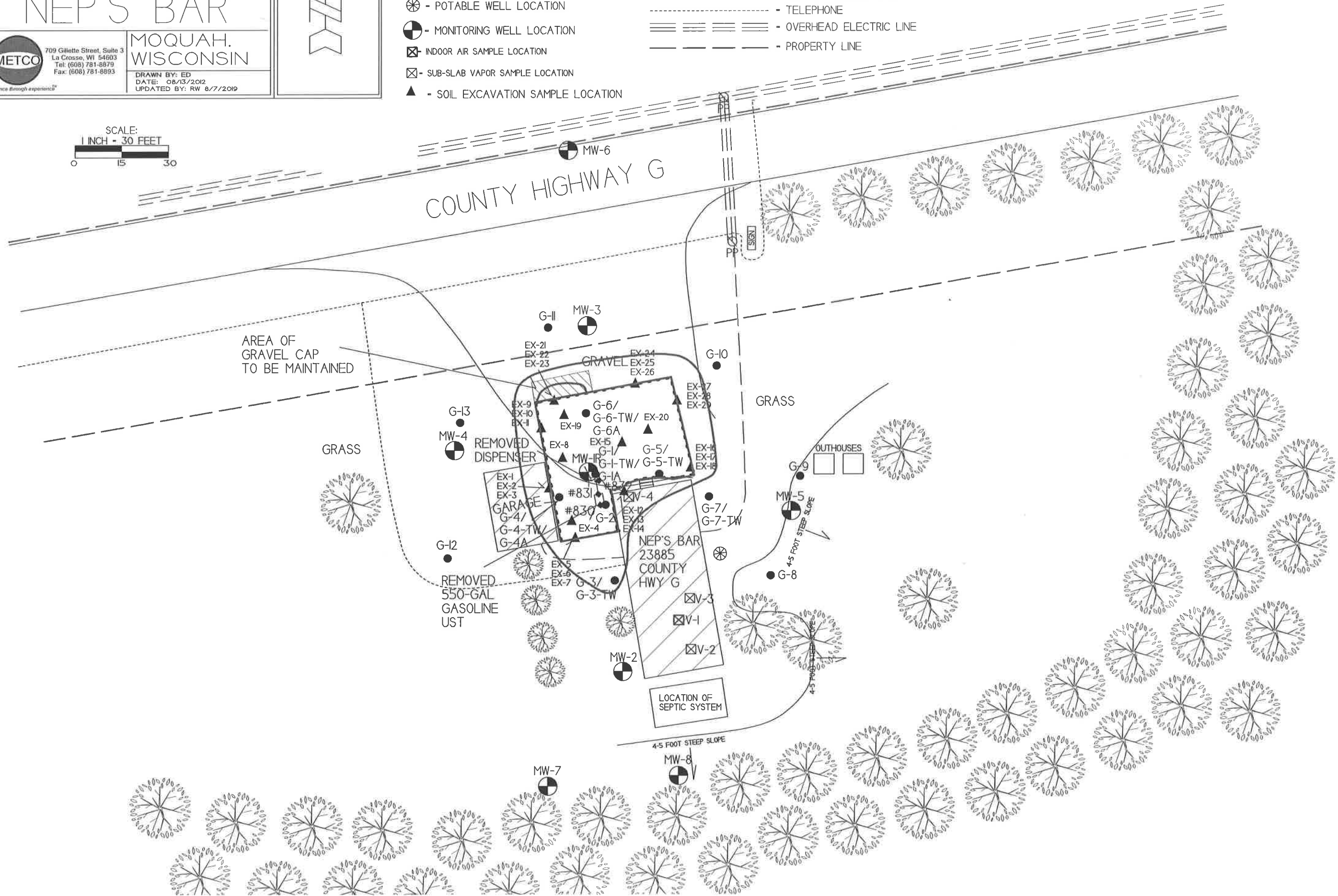
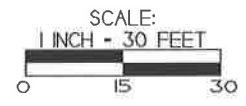
METCO
709 Gillette Street, Suite 3
La Crosse, WI 54603
Tel: (608) 781-8879
Fax: (608) 781-8893
excellence through experience

DRAWN BY: ED
DATE: 08/13/2012
UPDATED BY: RW 8/7/2019



NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

- ◆ - UST CLOSURE SOIL SAMPLING LOCATION
- - GEOPROBE BORING LOCATION
- ⊗ - POTABLE WELL LOCATION
- ⊙ - MONITORING WELL LOCATION
- ⊠ - INDOOR AIR SAMPLE LOCATION
- ⊞ - SUB-SLAB VAPOR SAMPLE LOCATION
- ▲ - SOIL EXCAVATION SAMPLE LOCATION
- ⋯ - AREA OF SOIL EXCAVATION
- — — — — - BURIED ELECTRIC LINE
- - - - - - TELEPHONE
- =====
=====
===== - OVERHEAD ELECTRIC LINE
- - - - - - PROPERTY LINE



D.1 Description of Maintenance Action(s)

CAP MAINTENANCE PLAN

Property Located at:
23885 County Highway G
Ashland WI, 54806

WDNR BRRTS# 03-04-000980

TAX KEY# 27494

Introduction

This document is the Maintenance Plan for a gravel cap at the above-referenced property in accordance with the requirements of s. NR 724.13(2), Wisconsin Administrative Code. The maintenance activities relate to the existing gravel cap which addresses or occupies the area over the contaminated soil exceeding the NR720 Direct Contact Standards.

More site-specific information about this property may be found in:

- The case file in the DNR Northern Region office
- BRRTS on the Web (DNR's internet based data base of contaminated sites):
<http://dnr.wi.gov/botw/SetUpBasicSearchForm.do>
- GIS Registry PDF file for further information on the nature and extent of contamination and
- The DNR project manager for Bayfield County.

Description of Contamination

Soil contaminated by petroleum is located at a depth of 3-9.5 feet below ground surface. Groundwater contaminated by petroleum is located at a depth of 1.6-17.3 feet below ground surface. The extent of the soil and groundwater contamination is shown on Attachment D.2.

Description of the Cap to be maintained

The cap consists of 6 inches of gravel located to the north of the on-site building. The Cap area is shown on Attachment D.2.

Cover Barrier Purpose

D.1 Description of Maintenance Action(s)

The gravel cap over the contaminated soil and groundwater serves 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.

Annual Inspection

The gravel cap overlying the contaminated soil and as depicted in Attachment D.2 will be inspected once a year, normally in the spring after all snow and ice is gone, for deterioration and other potential problems that can cause exposure to underlying soils. The inspections will be performed by the property owner or their designated representative. The inspections will be performed to evaluate damage due to settling, exposure to the weather, wear from traffic, increasing age and other factors. Any area where soils have become or are likely to become exposed will be documented.

A log of the inspections and any repairs will be maintained by the property owner and is included as Form 4400-305 Continuing Obligations and Maintenance 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 kept at the address of the property owner and available for submittal or inspection by Wisconsin Department of Natural Resources ("WDNR") representatives upon their request.

Note: The WDNR may, in some instances, require in the case closure letter that the inspection log be submitted at least annually after every inspection. If the case closure letter requires that, then a copy of the inspection log must be submitted to the WDNR at least annually after every inspection.

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 or larger resurfacing or construction operations. In the event that necessary maintenance activities expose the underlying soil, the owner must inform maintenance workers of the direct contact exposure hazard and provide them with appropriate personal protection equipment ("PPE"). The owner must also sample any soil that is excavated from the site prior to disposal to ascertain if contamination remains. The soil must be treated, stored and disposed of by the owner in accordance with applicable local, state, and federal law.

In the event the gravel cap overlying the contaminated soil is removed or replaced, the replacement barrier must be equally impervious. Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in this Maintenance Plan unless indicated otherwise by the WDNR or its successor.

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

Prohibition of Activities and Notification of DNR Prior to Actions Affecting a Cover or Cap

D.1 Description of Maintenance Action(s)

The following activities are prohibited on any portion of the property where the cap is required as shown on the attached map, unless prior written approval has been obtained from the Wisconsin Department of Natural Resources: 1) removal of the existing barrier; 2) replacement with another barrier; 3) excavating or grading of the land surface; 4) filling on capped or paved areas; 5) plowing for agricultural cultivation; 6) construction or placement of a building or other structure; or 7) changing the use or occupancy of the property to a residential exposure setting, which may include certain uses, such as single or multiple family residences, a school, day care, senior center, hospital, or similar residential exposure settings.

If removal, replacement or other changes to a cover, or a building which is acting as a cover, are considered, the property owner will contact DNR at least 45 days before taking such an action, to determine whether further action may be necessary to protect human health, safety, or welfare or the environment, in accordance with s. NR 727.07, Wis. Adm. Code.

Amendment or Withdrawal of Maintenance Plan

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

Contact Information

October 2018

Current Site Contact:

Michele Sutarik
213 13th Ave East
Ashland, WI 54806

Signature: 
(DNR may request signature of affected property owners, on a case-by-case basis)

Consultant:

METCO
Ron Anderson
709 Gillette Street, Suite 3
La Crosse, WI 54603
(608) 781-8879

WDNR:

Carrie Stoltz
107 Suttleff Avenue
Rhineland, WI 54501

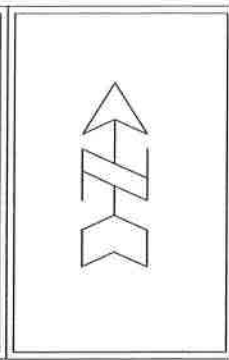
D.2
LOCATION MAP
NEP'S BAR

709 Gillette Street, Suite 3
La Crosse, WI 54603
Tel: (608) 781-8879
Fax: (608) 781-8893

METCO
Excellence through experience

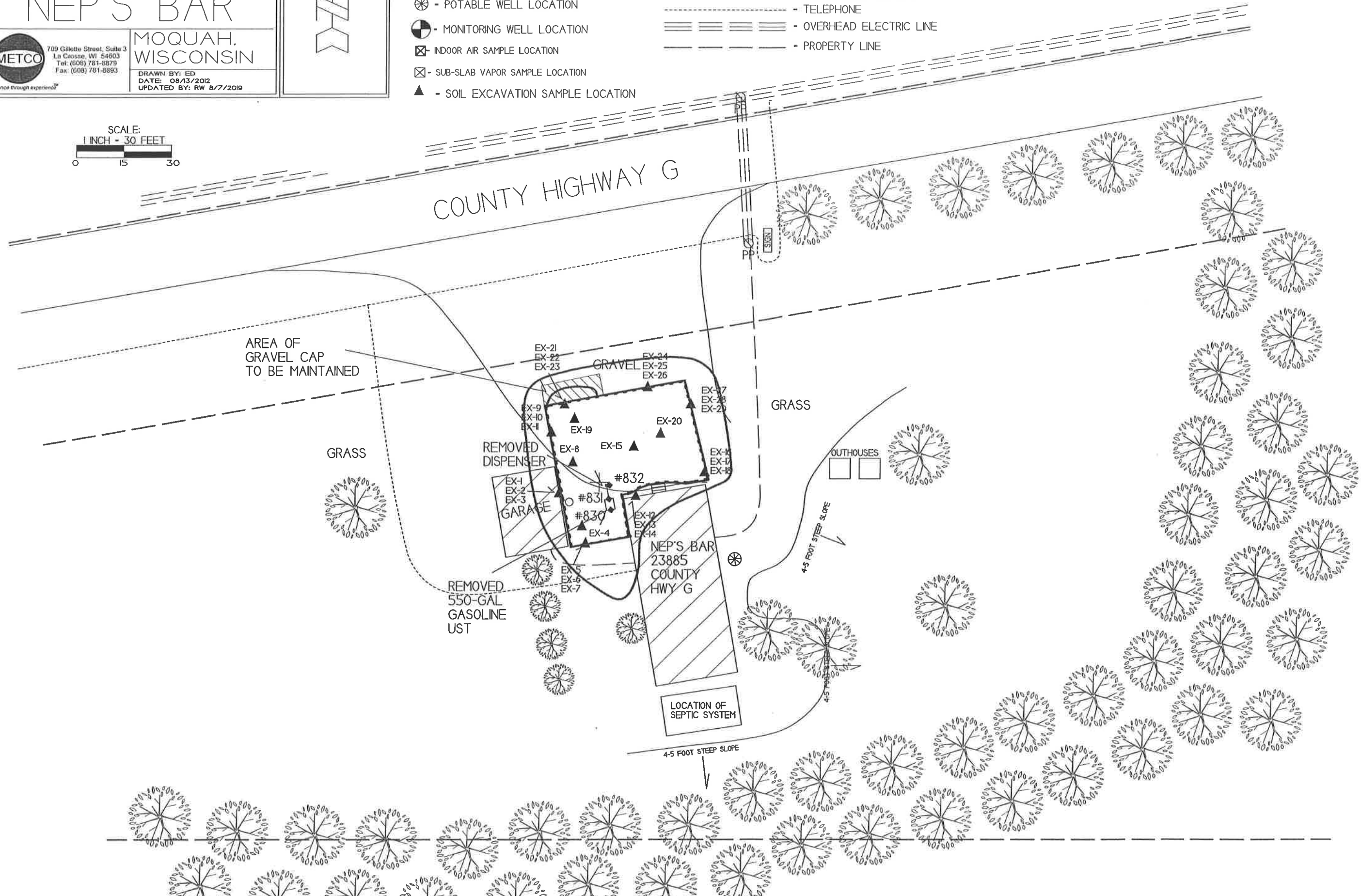
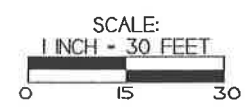
MOQUAH,
WISCONSIN

DRAWN BY: ED
DATE: 08/13/2012
UPDATED BY: RW 8/7/2019



NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

- ◆ - UST CLOSURE SOIL SAMPLING LOCATION
- - GEOPROBE BORING LOCATION
- ⊗ - POTABLE WELL LOCATION
- ⊙ - MONITORING WELL LOCATION
- ⊠ - INDOOR AIR SAMPLE LOCATION
- ⊡ - SUB-SLAB VAPOR SAMPLE LOCATION
- ▲ - SOIL EXCAVATION SAMPLE LOCATION
- - AREA OF SOIL EXCAVATION
- - BURIED ELECTRIC LINE
- - - - TELEPHONE
- ==== OVERHEAD ELECTRIC LINE
- - PROPERTY LINE



D.3. Photographs



Image looking south



Image looking southeast



Image looking southwest

APPROXIMATE AREAS

D.H. Inspection Log

Directions: In accordance with s. NR 727.05 (1) (b) 3., Wis. Adm. Code, use of this form for documenting the inspections and maintenance of certain continuing obligations is required. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.]. When using this form, identify the condition that is being inspected. See the closure approval letter for this site for requirements regarding the submittal of this form to the Department of Natural Resources. A copy of this inspection log is required to be maintained either on the property, or at a location specified in the closure approval letter. Do NOT delete previous inspection results. This form was developed to provide a continuous history of site inspection results. The Department of Natural Resources project manager is identified in the closure letter. The project manager may also be identified from the database, BRRTS on the Web, at <http://dnr.wi.gov/botw/SetUpBasicSearchForm.do>, by searching for the site using the BRRTS ID number, and then looking in the "Who" section.

Activity (Site) Name Neps Bar (former)	BRRTS No. 03-04-000980
--	----------------------------------

Inspections are required to be conducted (see closure approval letter):

annually
 semi-annually
 other – specify _____

When submittal of this form is required, submit the form electronically to the DNR project manager. An electronic version of this filled out form, or a scanned version may be sent to the following email address (see closure approval letter):

Inspection Date	Inspector Name	Item	Describe the condition of the item that is being inspected	Recommendations for repair or maintenance	Previous recommendations implemented?	Photographs taken and attached?
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N

Attachment E/Monitoring Well Information

All wells have been located and will be properly abandoned upon WDNR granting closure to the site.

Attachment F/Source Legal Documents

F.1 Deed

F.2. Certified Survey Map

F.2.a Certified Survey Map

- Note: Since no certified survey map or plat map exists, we used a property map from Bayfield County GIS website. However, the county GIS maps are not accurate and can be up to 200 feet off. So, METCO modified this map based on information available from current and past property owner and Real Property Lister

F.2.b Correspondence from Bayfield County Real Property Lister

F.3 Verification of Zoning

F.4 Signed Statement

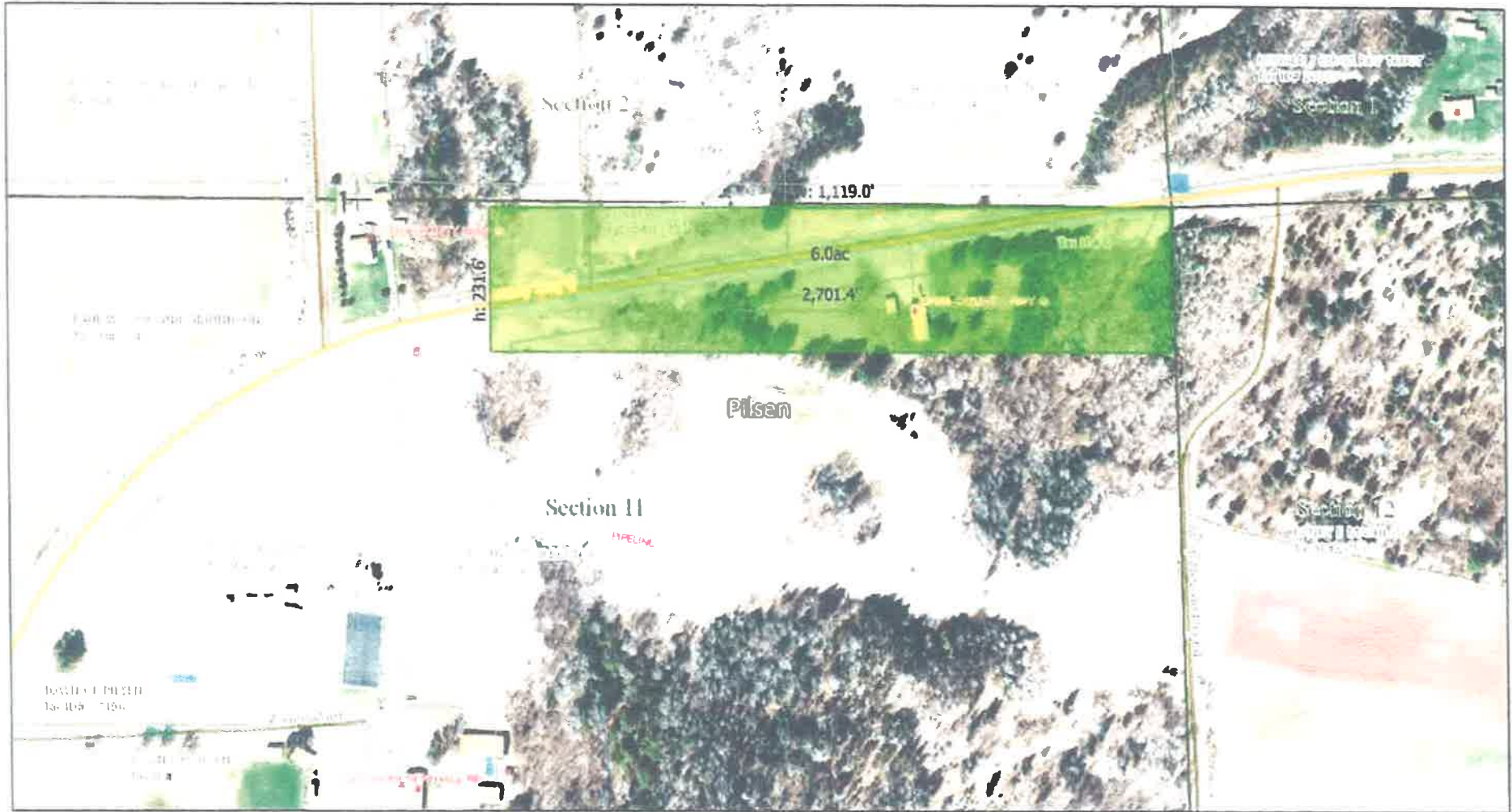
F.I. Deeds

EXHIBIT "A"

- Parcel 1: The Southeast Quarter of the Southeast Quarter (SE $\frac{1}{4}$ SE $\frac{1}{4}$), Section Six (6), Township Forty-seven (47) North, Range Five (5) West, Town of Eileen, Bayfield County, Wisconsin.
- Parcel 2: The Northeast Quarter of the Southeast Quarter (NE $\frac{1}{4}$ SE $\frac{1}{4}$), Section Six (6), Township Forty-seven (47) North, Range Five (5) West, Town of Eileen, Bayfield County, Wisconsin.
- Parcel 3: The West Half of the Southeast Quarter of the Southwest Quarter (W $\frac{1}{2}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$), Section Five (5), Township Forty-seven (47) North, Range Five (5) West, Town of Eileen, Bayfield County, Wisconsin.
- Parcel 4: The East Ten (10) acres of the Northwest Quarter of the Southeast Quarter (NW $\frac{1}{4}$ SE $\frac{1}{4}$), Section Six (6), Township Forty-seven (47) North, Range Five (5) West, Town of Eileen, Bayfield County, Wisconsin.
- Parcel 5: A parcel of land in the Northeast Quarter of the Northeast Quarter (NE $\frac{1}{4}$ NE $\frac{1}{4}$), Section Eleven (11), Township Forty-seven (47) North, Range Six (6) West, Town of Pilsen, Bayfield County, Wisconsin, described as follows:
- That part of the North Six (6) acres of the Northeast Quarter of the Northeast Quarter (NE $\frac{1}{4}$ NE $\frac{1}{4}$) of said Section Eleven (11), lying South of County Trunk G.

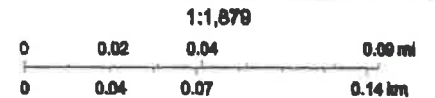
F.2.a Certified Survey Map

Note: County GIS map modified by METCO



10/23/2018, 11:42:51 AM

- | | | | |
|---|---|---|---|
| <input type="checkbox"/> Ashland Co Parcels | <input type="checkbox"/> Approximate Parcel Boundary | <input type="checkbox"/> State | <input type="checkbox"/> Recorded Map |
| <input type="checkbox"/> Douglas Co Parcels | <input type="checkbox"/> Section Lines | <input type="checkbox"/> County | <input type="checkbox"/> Corner Tie Sheets |
| <input type="checkbox"/> Rivers | <input type="checkbox"/> Government Lot | <input type="checkbox"/> Town | <input type="checkbox"/> Section Corner Monument on File |
| <input type="checkbox"/> Lakes | <input type="checkbox"/> Municipal Boundary | <input type="checkbox"/> CFR | <input type="checkbox"/> Section Corner Monument Referenced on Survey |
| <input type="checkbox"/> We Lines | <input type="checkbox"/> Red Cliff Reservation Boundary | <input type="checkbox"/> Private | <input type="checkbox"/> Building Footprint 2008-2018 |
| <input type="checkbox"/> Meander Lines | <input type="checkbox"/> All Roads | <input type="checkbox"/> Survey Maps | <input type="checkbox"/> Changed |
| | <input type="checkbox"/> Federal | <input type="checkbox"/> UnRecorded Map | <input type="checkbox"/> Demolished |



Bayfield County, Bayfield County Land Records

F.2.b Correspondence from Bayfield County Real Property Lister

Robert Wilmoth

From: Pamela Ledin <PLedin@bayfieldcounty.org>
Sent: Wednesday, October 23, 2019 9:24 AM
To: Robert Wilmoth
Subject: RE: Need help identifying property boundary and acreage

Hello Rob,

I as well do not see any neighboring property surveys for the property. I will say that our disclaimer with our GIS parcel map is that parcel lines can be up to 200 feet off. We are constantly working on improving our parcel mapping with new surveys coming in and better section corner control.

It is important to use the current deed to determine acreage as there is no survey and our GIS mapping is not always accurate, and there are occasionally errors in our NOVUS tax database. I pulled the deed, and see that it is parcel #5, described as the land *south of the highway* in the northern 6 acres of the quarter-quarter. Sketching this quick on our GIS web map, this lines up with our current parcel lines for that parcel. The acreage for this parcel is not listed, as the 6 acres is the entire portion described before stating that this parcel lies south of the highway. Describes "that PART of the north 6 acres".

As we have it mapped, seeing that it fits well with the deed description, somewhere closer to the 1 acre I am assuming is more accurate for the property acreage, but we still can't say what the acreage actually is. This is a case where we would certainly recommend a survey to determine the true boundary lines, seeing that there is the building/boundary line issue and no neighboring surveys.

I hope that this helps, if you have any other questions just let me know!

Thanks,
Pam

Parcel 5: A parcel of land in the Northeast Quarter of the Northeast Quarter (NE $\frac{1}{4}$ NE $\frac{1}{4}$), Section (11), Township Forty-seven (47) North, Range Six (6) West, Town of Pilsen, Bayfield County, WI described as follows:

That part of the North Six (6) acres of the Northeast Quarter of the Northeast Quarter (NE $\frac{1}{4}$ NE $\frac{1}{4}$) Section Eleven (11), lying South of County Trunk G.

F.2.b Correspondence from Bayfield County Real Property Lister

Pam Ledin

Real Property Lister

Bayfield County Land Records Department

pledin@bayfieldcounty.org

Land Records Dept.: (715) 373-6156

Direct line: (715) 373-3427

From: Robert Wilmoth <robertw@metcohq.com>
Sent: Wednesday, October 23, 2019 8:27 AM
To: Pamela Ledin <PLedin@bayfieldcounty.org>
Subject: Need help identifying property boundary and acreage

Hello

My Name is Rob Wilmoth and I work for an environmental consulting company called METCO. We are trying to close an old LUST site at 23885 County Highway G and we need help on where the property boundaries are located. The DNR said you could help us with that. The county GIS site shows the property boundary cutting through the middle of the on-site building and that seems very odd and doesn't make a lot of sense. We couldn't find a certified surveyed map or plat map of this property or neighboring properties to show property boundaries.

Along with this we need to know how many acres the property is as well. The deed shows 6 acres, the county GIS and Novus website shows 2 recorded acres and 1 calculated acre, and the Uniform Residential Appraisal Report shows 1 acre.

Any information that you could give us would be greatly appreciated.

If there is anymore information that you need let me know at robertw@metcohq.com or you can call (608) 781-8879.

Thank you for your time,



Rob Wilmoth

METCO – Hydrogeologist

robertw@metcohq.com / 608.781.8879

709 Gillette Street - Sulte 3, La Crosse WI 54603

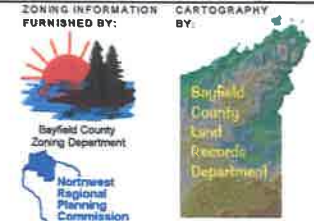
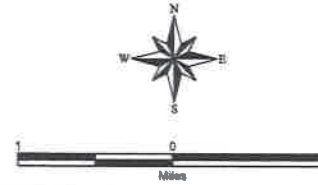
www.metcohq.com

F.3. Verification of Zoning

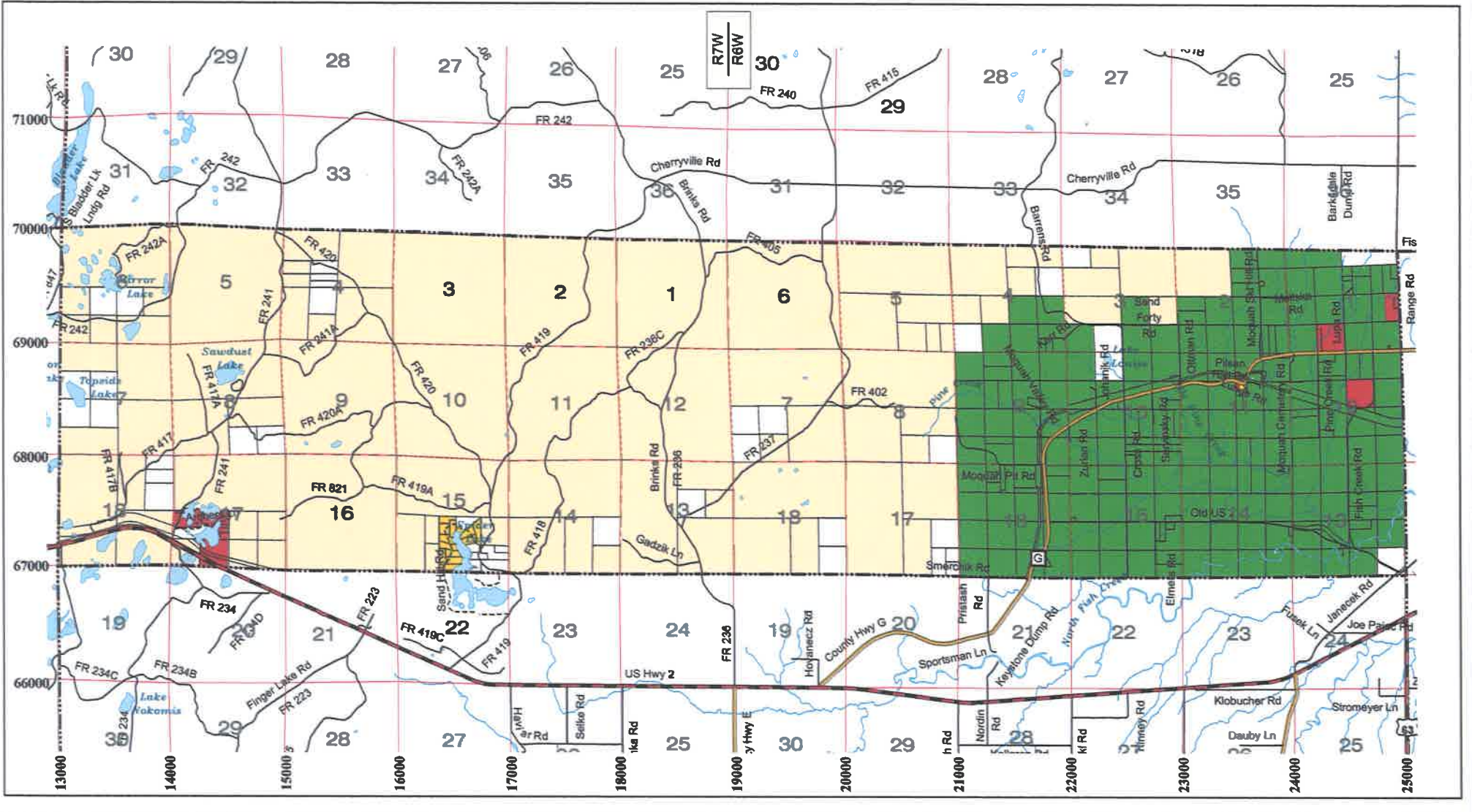


- Roads**
- Federal Highway
 - State Highway
 - County Road
 - Town Road
 - Private Road
- Other Symbols**
- MCD Boundary
 - Section Lines
 - Parcels
 - 16000 Address Grid
 - Streams
 - Lakes
- County Zoning Districts**
- (R1) - Residential - 1
 - (R2) - Residential - 2
 - (R3) - Residential - 3
 - (R4) - Residential - 4
 - (C) - Commercial
 - (I) - Industrial
 - (F1) - Forestry - 1
 - (F2) - Forestry - 2
 - (A1) - Agricultural - 1
 - (A2) - Agricultural - 2
 - (W) - Conservancy
 - (R-RB) - Residential - Recreational Business

Town of Pilsen Zoning Districts



The Zoning Districts portrayed on this map were derived from the Official Bayfield County Zoning District Map maintained by the Zoning Department. Bayfield County makes no warranty with respect to accuracy or completeness of this map and assumes no liability for its use or misuse. This map was last updated on August 28, 2002.



F.4. Signed Statement

WDNR BRRTS Case #: 03-04-000980

WDNR Site Name: Neps Bar

Geographic Information System (GIS) Registry of Closed Remediation Sites

In compliance with the revisions to the NR 700 rule series requiring certain closed sites to be listed on the Geographic Information System (GIS) Registry of Closed Remediation Sites (Registry) effective Nov., 2001, I have provided the following information.

To the best of my knowledge the legal descriptions provided and attached to this statement are complete and accurate.

Responsible Party:

THOMAS SUTARIK
(print name/title)

Thomas Sutarik 7-17-2019
(signature) (date)

Attachment G/Notifications to Owners of Affected Properties

G.A. – Notification to Bayfield County of contamination in right-of-way of County Highway G.

G.B. – Notification to Current Property Owner at 23885 County Highway G.

G.1 Deed – No deeded properties have been impacted.

G.2 Certified Survey Map – No deeded properties have been impacted.

G.3 Verification of Zoning – No deeded properties have been impacted.

G.4 Signed Statement – No deeded properties have been impacted.

G.A. - Notification to Bayfield County of contamination in
Right-of-way of County Highway G.

**Notification of Continuing Obligations
and Residual Contamination**

Form 4400-286 (9/15)

C. I. Page

The affected property is:

- the source property (the source of the hazardous substance discharge), but the property is not owned by the person who conducted the cleanup (a deeded property)
- a deeded property affected by contamination from the source property
- a right-of-way (ROW)
- a Department of Transportation (DOT) ROW

Include this completed page as an attachment with all notifications provided under sections A and B.

Contact Information

Responsible Party: The person responsible for sending this form, and for conducting the environmental investigation and cleanup is:

Responsible Party Name

Contact Person Last Name Sutarik	First Thomas	MI	Phone Number (include area code) (715) 746-2225
-------------------------------------	-----------------	----	--

Address 25850 County Highway G	City Ashland	State WI	ZIP Code 54806
-----------------------------------	-----------------	-------------	-------------------

E-mail msutarik@larsonjuhl.com

Name of Party Receiving Notification:

Business Name, if applicable: Bayfield Highway Commissioner

Title Mr.	Last Name Johanik	First Paul	MI	Phone Number (include area code) (715) 373-6115
--------------	----------------------	---------------	----	--

Address 311 1st Ave E	City Washburn	State WI	ZIP Code 54891
--------------------------	------------------	-------------	-------------------

Site Name and Source Property Information:

Site (Activity) Name Neps Bar (Former)

Address 23885 CTH G	City Ashland	State WI	ZIP Code 54806
------------------------	-----------------	-------------	-------------------

DNR ID # (BRRTS#) 03-04-000980	(DATCP) ID #
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Contacts for Questions:

If you have any questions regarding the cleanup or about this notification, please contact the Responsible Party identified above, or contact:

Environmental Consultant: METCO

Contact Person Last Name Anderson	First Ron	MI	Phone Number (include area code) (608) 781-8879
--------------------------------------	--------------	----	--

Address 709 Gillette St., Ste. #3	City La Crosse	State WI	ZIP Code 54603
--------------------------------------	-------------------	-------------	-------------------

E-mail rona@metcohq.com

Department Contact:

To review the Department's case file, or for questions on cleanups or closure requirements, contact:

Department of: Natural Resources (DNR)

Address 2501 Golf Course Rd	City Ashland	State WI	ZIP Code 54806
--------------------------------	-----------------	-------------	-------------------

Contact Person Last Name Saari	First Chris	MI	Phone Number (include area code) (715) 685-2920
-----------------------------------	----------------	----	--

E-mail (Firstname.Lastname@wisconsin.gov) Christopher.Saari@wisconsin.gov

Section B: ROW Notification: Residual Contamination and/or Continuing Obligations - Non-DOT ROWs

KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

311 1st Ave E
Washburn, WI, 54891

Dear Mr. Johanik:

I am providing this notification to inform you of the location and extent of contamination remaining in a right-of-way for which you are responsible, and of certain long-term responsibilities (continuing obligations) for which county of Bayfield may become responsible. I investigated a release of:

Petroleum from a LUST

on 23885 CTH G , Ashland, WI, 54806 that has shown that contamination

has migrated into the right-of-way for which county of Bayfield is responsible.

I have responded to the release, and will be requesting that the Department of Natural Resources (DNR) grant case closure. Closure means that the DNR will not be requiring any further investigation or cleanup action to be taken. However, continuing obligations may be imposed as a condition of closure approval.

You have 30 days to comment on the proposed closure request:

The DNR will not review my closure request for at least 30 days after the date of this letter. As an affected right-of-way holder, you have a right to contact the DNR to provide any technical information that you may have that indicates that closure should not be granted for this site. If you would like to submit any information to the DNR that is relevant to this closure request, you should mail that information to the DNR contact: 2501 Golf Course Rd, Ashland, WI, 54806, or at Christopher.Saari@wisconsin.gov.

Residual Contamination:

Groundwater Contamination:

Groundwater contamination originated at the property located at: 23885 CTH G , Ashland, WI, 54806 .

The levels of
Benzene

contamination in the groundwater on your property are above the state groundwater enforcement standards found in ch. NR 140, Wis. Adm. Code.

If residual soil or groundwater contamination is likely to affect water collected in a pit/trench that requires dewatering, a general permit for Discharge of Contaminated Groundwater from Remedial Action Operations may be needed. If you or any other person plan to conduct utility or building construction for which dewatering will be necessary, you or that person must contact the DNR's Water Quality Program, and if necessary, apply for the necessary discharge permit. Additional information regarding discharge permits is available at <http://dnr.wi.gov/topic/wastewater/GeneralPermits.html>.

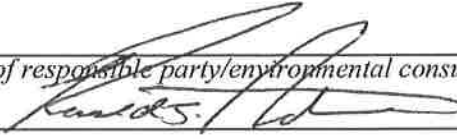
Continuing Obligations on the Right-of-Way (ROW) : As part of the response actions, I am proposing that the following continuing obligations be used at the affected ROW. If my closure request is approved, you will be responsible for the following continuing obligations:

GIS Registry and Well Construction Requirements:

If this site is closed, all properties within the site boundaries where contamination remains, or where a continuing obligation is applied, will be listed on the Bureau for Remediation and Redevelopment Tracking System (BRRTS) on the Web, at <http://dnr.wi.gov/topic/Brownfields/clean.html>. Inclusion on this database provides public notice of remaining contamination and of any continuing obligations. Documents can be viewed on this database, and include final closure letters, site maps and any applicable maintenance plans. The location of the site may also be viewed on the Remediation and Redevelopment Sites Map (RR Sites Map), on the "GIS Registry" layer, at the same internet address listed above.

DNR approval prior to well construction or reconstruction is required for all sites included in the GIS Registry, in accordance with s. NR 812.09 (4) (w), Wis. Adm. Code. This requirement applies to private drinking water wells and high capacity wells. Special well construction standards may be necessary to protect the well from the remaining contamination. Well drillers need to first obtain approval from a regional water supply specialist in DNR's Drinking Water and Groundwater Program. The well construction application, form 3300-254, is on the internet at <http://dnr.wi.gov/topic/wells/documents/3300254.pdf>.

If you have any questions regarding this notification, I can be reached at: (608) 781-8879
rona@metcohq.com

<i>Signature of responsible party/environmental consultant for the responsible party</i> 	Date Signed 8/9/19
---	-----------------------

Attachments
Contact Information
Legal Description for each Parcel:

G.A. - Notification to
 Bayfield County of
 continuation is right
 of way of County
 Highway 6.

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Bayfield Highway Commissioner
 Paul Jofanik
 311 1st Ave. E.
 Washburn, WI 54891



9590 9403 0958 5223 6283 71

7015 1660 0000 4342 8964

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 Addressee
[Handwritten Signature]

B. Received by (Printed Name) *Jacob Brandt S*

C. Date of Delivery *8/3/19*

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
- Adult Signature
 - Adult Signature Restricted Delivery
 - Certified Mail®
 - Certified Mail Restricted Delivery
 - Collect on Delivery
 - Collect on Delivery Restricted Delivery
 - Registered Mail
 - Registered Mail Restricted Delivery (over \$500)
 - Priority Mail Express®
 - Registered Mail™
 - Registered Mail Restrict Delivery
 - Return Receipt for Merchandise
 - Signature Confirmation™
 - Signature Confirmation Restricted Delivery

G.B - Notification to Current Property Owner at 23885 County Highway G.

Notification of Continuing Obligations and Residual Contamination

Form 4400-286 (9/15)

C. I. Page

The affected property is:

- the source property (the source of the hazardous substance discharge), but the property is not owned by the person who conducted the cleanup (a deeded property)
- a deeded property affected by contamination from the source property
- a right-of-way (ROW)
- a Department of Transportation (DOT) ROW

Include this completed page as an attachment with all notifications provided under sections A and B.

Contact Information

Responsible Party: The person responsible for sending this form, and for conducting the environmental investigation and cleanup is:

Responsible Party Name Thomas Sutarik

Contact Person Last Name Sutarik	First Thomas	MI	Phone Number (include area code) (715) 746-2225
Address 25850 County Highway G	City Ashland	State WI	ZIP Code 54806
E-mail			

Name of Party Receiving Notification:

Business Name, if applicable:

Title Ms.	Last Name Sutarik	First Michele	MI	Phone Number (include area code) (715) 292-3409
Address 213 13th Avenue East	City Ashland	State WI	ZIP Code 54806	

Site Name and Source Property Information:

Site (Activity) Name Neps Bar

Address 23885 County Highway G	City Ashland	State WI	ZIP Code 54806
DNR ID # (BRRTS#) 03-04-000980	(DATCP) ID #		

Contacts for Questions:

If you have any questions regarding the cleanup or about this notification, please contact the Responsible Party identified above, or contact:

Environmental Consultant: METCO Inc

Contact Person Last Name Powell	First Jason	MI	Phone Number (include area code) (608) 781-8879
Address 709 Gillette St., Ste #3	City La Crosse	State WI	ZIP Code 54603
E-mail jasonp@metcohq.com			

Department Contact:

To review the Department's case file, or for questions on cleanups or closure requirements, contact:

Department of: Natural Resources (DNR)

Address 2501 Golf Course Rd	City Ashland	State WI	ZIP Code 54806
Contact Person Last Name Saari	First Chris	MI	Phone Number (include area code) (715) 685-2920
E-mail (Firstname.Lastname@wisconsin.gov) Christopher.Saari@wisconsin.gov			

G.B-

Section A: Deeded Property Notification: Residual Contamination and/or Continuing Obligations

KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

25850 County Highway G
Ashland, WI, 54806

Dear Ms. Sutarik:

I am providing this letter to inform you of the location and extent of contamination remaining on your property, and of certain long-term responsibilities (continuing obligations) for which you may become responsible.

I have investigated a release of:

Gasoline

on 23885 County Highway G, Ashland, WI, 54806 that has shown that contamination remains on this source property. I have responded to the release and will be requesting that the Department of Natural Resources (DNR) grant case closure. Closure means that the DNR will not be requiring any further investigation or cleanup action to be taken. However, continuing obligations may be imposed as a condition of closure approval.

You have 30 days to comment on the attached legal description of your property and on the proposed closure request:

Please review the enclosed legal description of your property, and notify Jason Powell at 709 Gillette St., Ste #3, La Crosse, WI, 54603 within the next 30 days if the legal description is incorrect.

The DNR will not review my closure request for at least 30 days after the date of receipt of this letter. As an affected property owner, you have a right to contact the DNR to provide any technical information that you may have that indicates that closure should not be granted for this site. If you would like to submit any information that is relevant to this closure request, or if you want to waive the 30 day comment period, you should mail that information to the DNR contact: 2501 Golf Course Rd, Ashland, WI, 54806, or at Christopher.Saari@wisconsin.gov.

Your Long-Term Responsibilities as a Property Owner and Occupant:

The responses included

Soil Excavation and Groundwater Monitoring

The continuing obligations I am proposing that affect your property are listed below, under the heading **Continuing Obligations**. Under s. 292.12 (5), Wis. Stats., current and future owners and occupants of this property are responsible for complying with continuing obligations imposed as part of an approved closure.

The fact sheet "Continuing Obligations for Environmental Protection" (DNR publication RR 819) has been included with this letter, to help explain the responsibilities you may have for maintenance of a certain continuing obligation, the limits of any liability for investigation and cleanup of contamination, and how these differ. If the fact sheet is lost, you may obtain copies at <http://dnr.wi.gov/files/PDF/pubs/rr/RR819.pdf>.

Contract for responsibility for continuing obligation:

Before I request closure, I will need to inform the DNR as to whom will be responsible for the continuing obligation/s on your property.

Thomas Sutarik is the responsible party.

Under s. 292.12, Wis. Stats., the responsibility for maintaining all necessary continuing obligations for your property will fall on you or any subsequent property owner, unless another person has a legally enforceable responsibility to comply with the requirements of the final closure letter. If you need more time to finalize an agreement on the responsibility for the continuing obligations on your Property, you may request additional time from the DNR contact identified in **Contact Information**.

(Note: Future property owners would need to negotiate a new agreement.)

G.B.

Remaining Contamination:

Soil Contamination:

Soil contamination remains at :
In the area of the former UST and dispenser.

The remaining contaminants include:

Benzene, Ethylbenzene, Naphthalene, Toluene, Trimethylbenzenes, and Xylene.

at levels which exceed the soil standards found in ch. NR 720, Wis. Adm. Code. The following steps have been taken to address any exposure to the remaining soil contamination.

All remaining contamination will be address via natural attenuation and the cap maintenance plan.

Groundwater Contamination:

Groundwater contamination originated at the property located at 23885 County Highway G, Ashland, WI, 54806.

The levels of

Benzene, 1,2-Dichloroethane (DCA), Ethylbenzene, Naphthalene, Toluene, Trimethylbenzenes, and Xylene.

contamination in the groundwater on your property are above the state groundwater enforcement standards found in ch. NR 140, Wis. Adm. Code.

However, the environmental consultants who have investigated this contamination have informed me that this groundwater contaminant plume is stable or receding and will naturally degrade over time. I believe that allowing natural attenuation, or the breakdown of contaminants in groundwater due to naturally occurring processes, to complete the cleanup at this site will meet the case closure requirements of ch. NR 726, Wis. Adm. Code. As part of my request for case closure, I am requesting that the DNR accept natural attenuation as the final remedy for this site.

The following DNR fact sheet (RR 671, "What Landowners Should Know: Information About Using Natural Attenuation to Clean Up Contaminated Groundwater") has been included with this notification, to help explain the use of natural attenuation as a remedy. If the fact sheet is lost, you may obtain a copy at <http://dnr.wi.gov/files/PDF/pubs/tr/RR671.pdf>.

Continuing Obligations on Your Property: As part of the cleanup, I am proposing that the following continuing obligations be used at your property, to address future exposure to residual contamination. If my closure request is approved, you will be responsible for the following continuing obligations.

To construct a new well or to reconstruct an existing well, the property owner at the time of construction or reconstruction will need to obtain prior approval from the DNR. See the paragraph **GIS Registry and Well Construction Requirements**. Typically, this results in casing off a portion of the aquifer during drilling, when needed, to protect the water supply.

Residual Soil Contamination:

If soil is excavated from the areas with residual contamination, the property owner at the time of excavation will be responsible for the following:

- determine if contamination is present
- determine whether the material would be considered solid or hazardous waste
- ensure that any storage, treatment or disposal is in compliance with applicable statutes and rules.

Contaminated soil may be managed in-place, in accordance with ch. NR 718, Wis. Adm. Code, with prior DNR approval. In addition, all current and future property owners and occupants of the property and right-of-way holders need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken during excavation activities to prevent a health threat to humans.

Depending on site-specific conditions, construction over contaminated soils or groundwater may result in vapor migration of contaminants into enclosed structures or migration along 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.

G. B.

Notification of Continuing Obligations and Residual Contamination

Form 4400-286 (9/15)

Page 3 of 3

Maintenance and Audits of Continuing Obligations:

If compliance with a maintenance plan is required as part of a continuing obligation, an inspection log will need to be filled out periodically, and kept available for inspection by the DNR. Submittal of the inspection log may also be required. You will also need to notify any future owners or occupants of this property of the need to maintain the continuing obligation and to document that maintenance in the inspection log. Periodic audits of these continuing obligations may be conducted by the DNR, to ensure that potential exposure to residual contamination is being addressed. The DNR provides notification before conducting site visits as part of the audit.

GIS Registry and Well Construction Requirements:

If this site is closed, all properties within the site boundaries where contamination remains, or where a continuing obligation is applied, will be listed on the Bureau for Remediation and Redevelopment Tracking System (BRRTS) on the Web, at <http://dnr.wi.gov/topic/Brownfields/clean.html>. Inclusion on this database provides public notice of remaining contamination and of any continuing obligations. Documents can be viewed on this database, and include final closure letters, site maps and any applicable maintenance plans. The location of the site may also be viewed on the Remediation and Redevelopment Sites Map (RR Sites Map), on the "GIS Registry" layer, at the same internet address listed above.

DNR approval prior to well construction or reconstruction is required for all sites included in the GIS Registry, in accordance with s. NR 812.09 (4) (w), Wis. Adm. Code. This requirement applies to private drinking water wells and high capacity wells. Special well construction standards may be necessary to protect the well from the remaining contamination. Well drillers need to first obtain approval from a regional water supply specialist in DNR's Drinking Water and Groundwater Program. The well construction application, form 3300-254, is on the internet at <http://dnr.wi.gov/topic/wells/documents/3300254.pdf>.

Site Closure:

If the DNR grants closure, you will receive a letter which defines the specific continuing obligations on your property. The status of the site (open or closed) may also be checked by searching BRRTS on the Web. You may view or download a copy of the closure letter (sent to the responsible party) from BRRTS on the Web. You may also request a copy of the closure letter from the **responsible party** or by writing to the DNR contact, at Chris Saari, Christopher. Saari@wisconsin.gov, (715) 685-2920. The final closure letter will contain a description of the continuing obligation, any prohibitions on activities and will include any applicable maintenance plan.

If you have any questions regarding this notification, I can be reached at: (608) 781-8879
jasonp@metcohq.com


Signature of responsible party/environmental consultant for the responsible party

Date Signed 11-12-19

Attachments

Contact Information


Legal Description for each Parcel:

Factsheets:

RR 819, Continuing Obligations for Environmental Protection

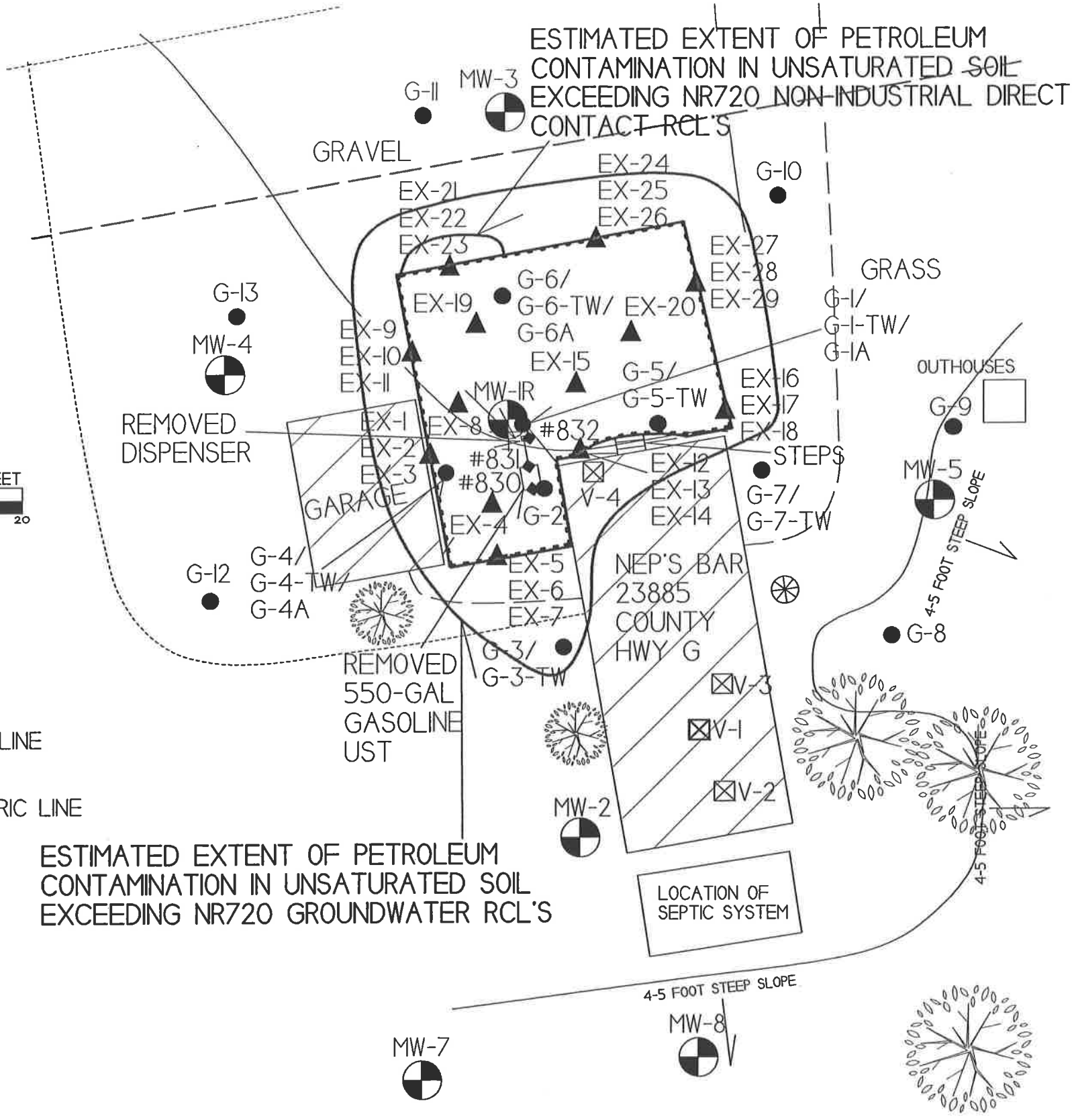
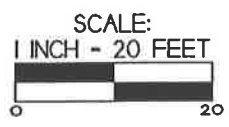
RR 671, What Landowners Should Know: Information About Using Natural Attenuation to Clean Up Contaminated Groundwater

G.B.-

B.2.a	
SOIL CONTAMINATION	
NEP'S BAR	
	MOQUAH, WISCONSIN
709 Gillette Street, Suite 3 La Crosse, WI 54603 Tel: (608) 781-8879 Fax: (608) 781-8893	DRAWN BY: ED DATE: 08/13/2012 UPDATED BY: RW 8/7/2010

NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

- ◆ = UST CLOSURE SOIL SAMPLING LOCATION
- = GEOPROBE BORING LOCATION
- ⊗ = POTABLE WELL LOCATION
- ⊕ = MONITORING WELL LOCATION
- ⊠ = INDOOR AIR SAMPLE LOCATION
- ⊠ = SUB-SLAB VAPOR SAMPLE LOCATION
- ▲ = SOIL EXCAVATION SAMPLE LOCATION
- = BURIED ELECTRIC LINE
- = TELEPHONE
- ==== = OVERHEAD ELECTRIC LINE
- = PROPERTY LINE
- ⊠ = AREA OF SOIL EXCAVATION TO 12 FEET BGS



G.B. -

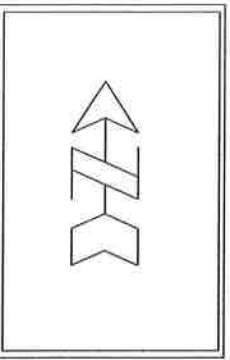
B.3.b GROUNDWATER ISOCONCENTRATION (11/5/18)

NEP'S BAR

METCO
709 Gilotta Street, Suite 3
La Crosse, WI 54603
Tel: (608) 781-8879
Fax: (608) 781-8893

MOQUAH, WISCONSIN

DRAWN BY: ED
DATE: 06/13/2012
UPDATED BY: RW 6/7/2019

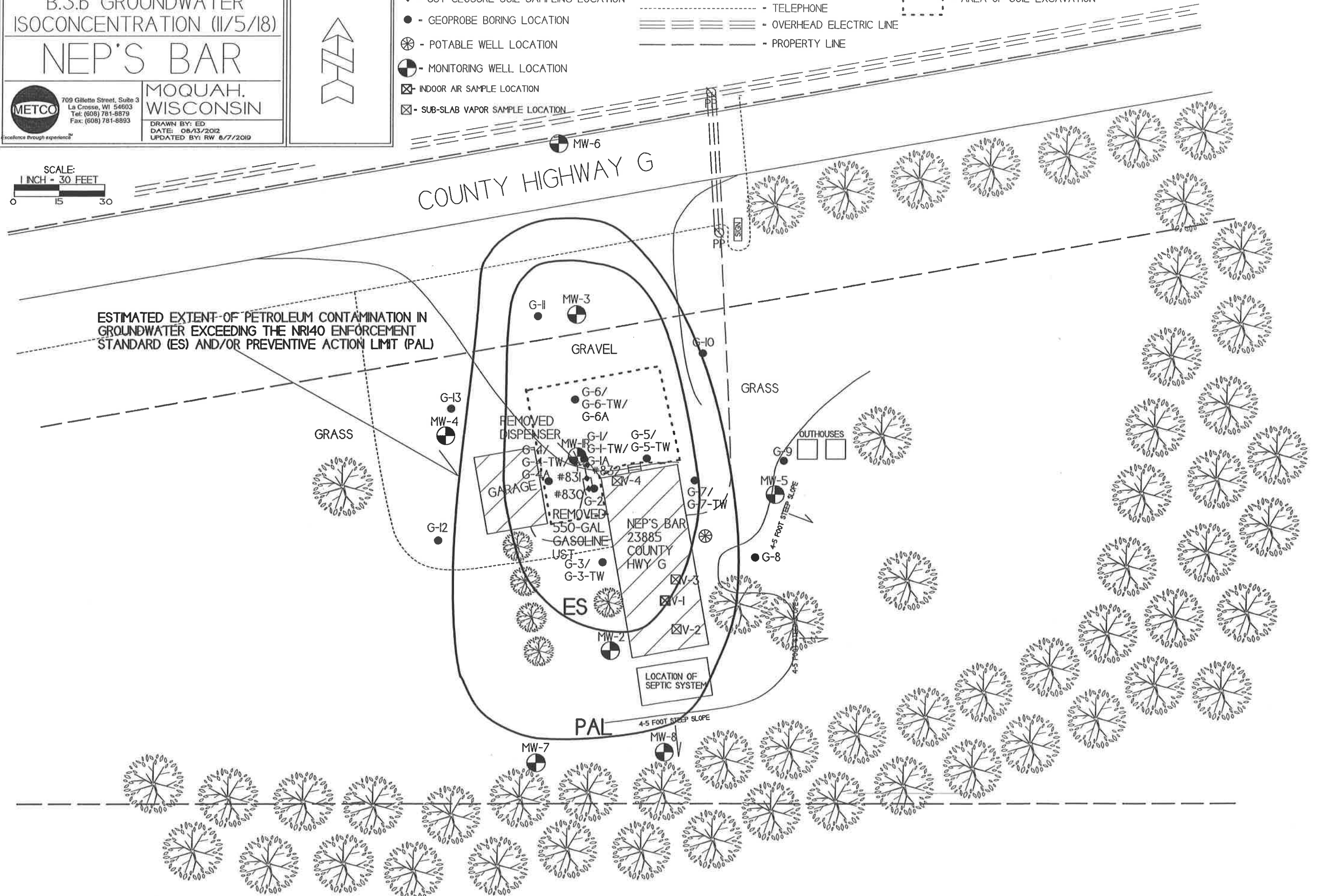
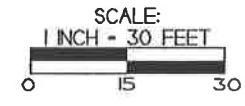


NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

- ◆ - UST CLOSURE SOIL SAMPLING LOCATION
- - GEOPROBE BORING LOCATION
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- ⊕ - MONITORING WELL LOCATION
- ⊠ - INDOOR AIR SAMPLE LOCATION
- ⊡ - SUB-SLAB VAPOR SAMPLE LOCATION

- - - - - BURIED ELECTRIC LINE
- - - - - TELEPHONE
- ==== OVERHEAD ELECTRIC LINE
- - - - - PROPERTY LINE

⊡ - AREA OF SOIL EXCAVATION



G.B. -

Jason Powell

From: Michele Sutarik <msutarik@larsonjuhl.com>
Sent: Wednesday, November 13, 2019 8:57 AM
To: Jason Powell
Subject: RE: Nep's Bar - Notification of Petroleum Contamination to current property owner - Ashland (Moquah), WI
Attachments: Metco Closing Paperwork.pdf

Good Morning Jason,
I have received, reviewed and agreed to this notification document that you sent to me.
I've signed the following paperwork requested.
I am also OK with waiving the 30 day Comment Period.
Please let me know if you will need anything more.
Thanks and have a good day!

Michele Sutarik
800 Sum Road Ashland, WI 54806
Office: 715-685-1270
msutarik@larsonjuhl.com

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From: Jason Powell [mailto:jasonp@metcohq.com]
Sent: Tuesday, November 12, 2019 11:22 AM
To: Michele Sutarik <msutarik@larsonjuhl.com>
Subject: Nep's Bar - Notification of Petroleum Contamination to current property owner - Ashland (Moquah), WI

Michele, attached is the "Notification of Continuing Obligations and Residual Contamination" Form 4400-286 which is required to be sent to you as you are listed as the current property owner and your father is listed as the Responsible Party. If you could review and email me back stating that you have received, reviewed, and agree to the notification and that you are okay with waiving the 30-day comment period I can get this information off to Carrie Stoltz at WDNR and they will then review at the next closure committee meeting.

If you have any questions please call or email.
Thanks,



Jason Powell
METCO - Staff Scientist

Michele Sutarik

To: Stoltz, Carrie R - DNR
Subject: Comment Period

RS
11/14/19

Good Morning Carrie,
I am letting you know that I have received, reviewed and agreed to the notification documents that was sent to me.
I would like to waive the 30 day comment period if possible.
Please let me know if you will need anything more.
Thanks and have a good day.

(LJP)
11/15/19

Michele Sutarik

11-14-19

Michele Sutarik
800 Sum Road Ashland, WI 54806
Office: 715-685-1270
msutarik@larsonjuhl.com

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February 10, 2020

MR PAUL JOHANIK
BAYFIELD COUNTY HIGHWAY COMMISSIONER
311 1ST AVE E
WASHBURN WI 54891

SUBJECT: Notice of Closure Approval with Continuing Obligations for Rights-of-Way Holders for Bayfield County Highway G
Final Case Closure for Nep's Bar, 23885 County Highway G, Ashland, Wisconsin
DNR BRRTS Activity #03-04-000980

Dear Mr. Johanik:

The Department of Natural Resources (DNR) recently approved the completion of environmental work done at the Nep's Bar site. This letter describes how that approval applies to the right-of-way (ROW) of County Highway G. As the right-of-way holder, you are responsible for complying with these continuing obligations for any work you conduct in the right-of-way.

State law directs parties responsible for environmental contamination to take actions to restore the environment and minimize harmful effects. The law allows some contamination to remain in soil and groundwater if it does not pose a threat to public health, safety, welfare or to the environment.

On August 13, 2019, you received information from Jason Powell, METCO, on behalf of Thomas Sutarik, about the petroleum contamination in the ROW from the Nep's Bar site, located at 23885 County Highway G, Ashland, and about the continuing obligations. Continuing obligations are meant to limit exposure to any remaining contamination.

Applicable Continuing Obligations

The continuing obligations that apply to this right-of-way are described below, and are consistent with Wis. Stat. § 292.12, and Wis. Admin. Code ch. NR 700 series.

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

Groundwater contamination greater than enforcement standards is present both on this contaminated property and off this contaminated property, as shown on the attached Figure B.3.b Groundwater Isoconcentration (11/5/18), prepared by METCO and dated August 7, 2019. If you intend to construct a new well, or reconstruct an existing well, you'll need prior DNR approval. Affected right-of-way holders were notified of the presence of groundwater contamination. This continuing obligation also applies to the ROW holders for County Highway G.

Please send written notifications in accordance with the following requirements to:

Department of Natural Resources
Attn: Remediation and Redevelopment Program Environmental Program Associate
107 Sutliff Avenue
Rhineland, Wisconsin 54501

Additional Information

Additional information about this case is available at the DNR's Bureau for Remediation and Redevelopment Tracking System (BRRTS) on the Web at dnr.wi.gov and search "BOTW". Enter 03-04-000980 in the **Activity Number** field in the initial screen, then click on **Search**. Scroll down and click on the **GIS Registry Packet** link for information about the completion of the environmental work. The site may also be seen on the map view, RR Sites Map. RR Sites Map can be found online at dnr.wi.gov and search "WRRD".

If you have any questions regarding this closure decision or anything outlined in this letter, please contact DBNR Project Manager Carrie Stoltz at (715) 365-8942 or at Carrie.Stoltz@Wisconsin.gov. You can also contact me at (715) 685-2920 or by email at Christopher.Saari@wisconsin.gov.

Sincerely,



Christopher A. Saari
Northern Region Team Supervisor
Remediation and Redevelopment Program

Attachments:

- Figure B.3.b Groundwater Isoconcentration (11/5/18), METCO, August 7, 2019
- Continuing Obligations for Environmental Protection, DNR Publication RR-819

cc: Jason Powell/Ron Anderson – METCO (via email)
Thomas Sutarik (via US Mail)
Michele Sutarik (via email)
Carrie Stoltz – DNR Rhinelander (via email)

NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

- ◆ - UST CLOSURE SOIL SAMPLING LOCATION
- - GEOPROBE BORING LOCATION
- ⊗ - POTABLE WELL LOCATION
- ⊙ - MONITORING WELL LOCATION
- ⊠ - INDOOR AIR SAMPLE LOCATION
- ⊡ - SUB-SLAB VAPOR SAMPLE LOCATION

- - BURIED ELECTRIC LINE
- - - - TELEPHONE
- ==== - OVERHEAD ELECTRIC LINE
- - - - PROPERTY LINE
- - - - AREA OF SOIL EXCAVATION

B.3.b GROUNDWATER ISOCONCENTRATION (11/5/18)

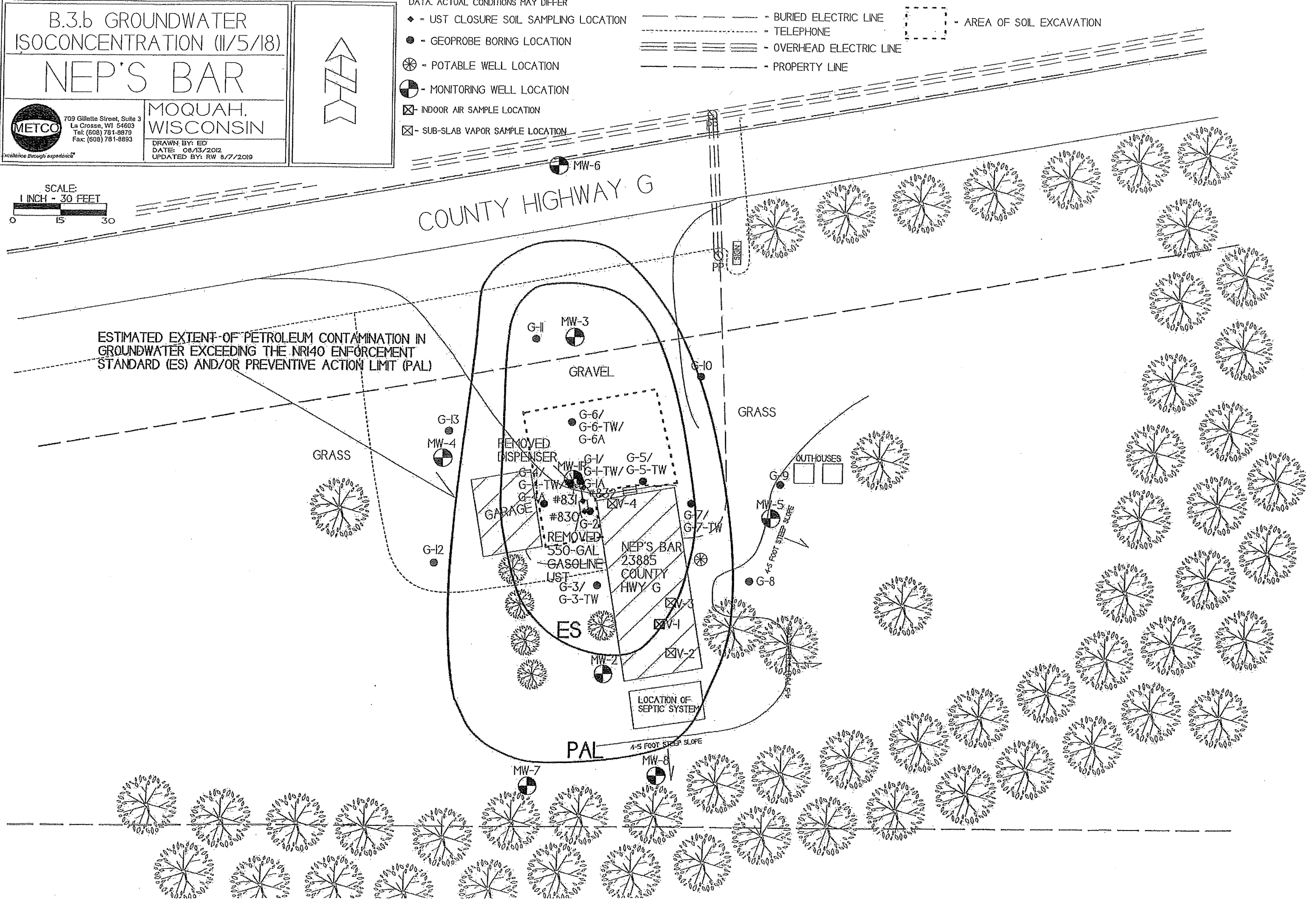
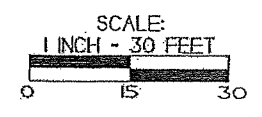
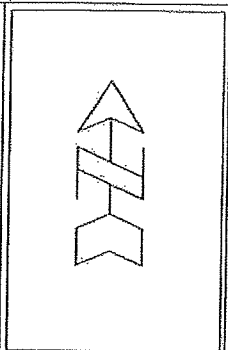
NEP'S BAR

MOQUAH, WISCONSIN

709 Gillette Street, Suite 3
La Crosse, WI 54603
Tel: (608) 781-8979
Fax: (608) 781-8993

METCO
Scale: 1 inch through experience

DRAWN BY: ED
DATE: 08/13/2012
UPDATED BY: RW 8/7/2019



ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN GROUNDWATER EXCEEDING THE NR140 ENFORCEMENT STANDARD (ES) AND/OR PREVENTIVE ACTION LIMIT (PAL)

PAL 4-5 FOOT STEEP SLOPE

LOCATION OF SEPTIC SYSTEM

NEP'S BAR
23885
COUNTY
HWY G

REMOVED
550-GAL
GASOLINE
UST

GARAGE

REMOVED
DISPENSER

GRAVEL

GRASS

GRASS

OUTHOUSES

MW-7

MW-8

MW-5

MW-4

MW-3

MW-6

COUNTY HIGHWAY G

G-12

G-13

G-1

G-10

G-6/
G-6-TW/
G-6A

G-1/
G-1-TW/
G-5-TW

G-4/
G-4-TW/
G-4A

#831
#830

G-2/
G-2-TW

G-3/
G-3-TW

G-7/
G-7-TW

G-8

G-9

ES

IV-4

IV-3

IV-2

IV-1

IV-2

IV-3

IV-4

IV-5

IV-6

IV-7

IV-8

IV-9

IV-10

IV-11

IV-12

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IV-24

IV-25

IV-26

IV-27

IV-28

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