State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
Baldwin Service Center
890 Spruce Street
Baldwin, WI 54002

Scott Walker, Governor
Daniel L. Meyer, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

WISCONSIN
DEPT. OF NATURAL RESOURCES

January 4, 2019

Jessica Amberg
N212 Herb Ave.
Spring Valley, WI 54767

KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

SUBJECT: Final Case Closure with Continuing Obligations
Amberg Oil Tank Farm, 511 1st Ave W, Menomonie WI
DNR BRRTS Activity #: 02-17-152462

Dear Ms. Amberg:

The Department of Natural Resources (DNR) considers Amberg Oil Tank Farm site closed, with continuing obligations. No further investigation or remediation is required at this time. However, you, future property owners and occupants 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 to anyone who purchases, rents or leases this property from you. Certain continuing obligations also apply to affected property owners or 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 chs. NR 726 and 727, Wis. Adm. Code. The West Central Region Closure Committee reviewed the request for closure on December 6, 2018. The West Central Region Closure Committee reviewed this environmental remediation case for compliance with state laws and standards.

This former petroleum bulk facility has soil and groundwater contamination from historical activities at the site. A site investigation has been completed and the petroleum tanks have been removed. The conditions of closure and continuing obligations required were based on the property being used for commercial or industrial purposes.

Continuing Obligations

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

- Groundwater contamination is present at or above ch. NR 140 enforcement standards.
- Residual soil contamination exists that must be properly managed should it be excavated or removed.

The 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 at http://dnr.wi.gov/files/PDF/pubs/rr/RR819.pdf.

DNR Database

This site will be included on the Bureau for Remediation and Redevelopment Tracking System (BRRTS) on the Web (BOTW) at dnr.wi.gov and search "WRRD", 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 s. NR 812.09 (4) (w), Wis. Adm. Code. 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 Baldwin Service Center, at 890 Spruce St. Baldwin, WI. This letter and information that was submitted with your closure request application, including any maps, can be found as a PDF on BOTW.

Closure Conditions

Compliance with the requirements of this letter is a responsibility to which you and any subsequent property owners must adhere. DNR staff will conduct periodic prearranged inspections to ensure that the conditions included in this letter are met. If these requirements are not followed, the DNR may take enforcement action under s. 292.11, Wisconsin Statutes 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: Patrick Collins
890 Spruce St.
Baldwin, WI 54002

Residual Groundwater Contamination (chs. NR 140 and 812, Wis. Adm. Code)
Groundwater contamination greater than enforcement standards is present both on this contaminated property and off this contaminated property, as shown on the attached map; Groundwater Isoconcentration, B.3.b, 1/24/2017. If you intend to construct a new well, or reconstruct an existing well, you'll need prior DNR approval. Affected property owners were notified of the presence of groundwater contamination. This continuing obligation also applies to the ROW holders for 503 1st Ave. West, Menomonie

Residual Soil Contamination (ch. NR 718, or ch. 289, Stats.; chs. 500 to 536, Wis. Adm. Code)
Soil contamination remains from the ROW near the loading rack, north including the area where the above ground storage tanks were located, as indicated on the attached map; Residual Soil Contamination, B.2.b, 1/24/2017. If soil in the specific locations described above is excavated in the future, the property owner at the time of excavation must sample and analyze the excavated soil to determine if contamination remains. If sampling confirms that contamination is present, the property owner at the time of excavation will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. Contaminated soil may be managed in accordance with ch. NR 718, Wis. Adm. Code, with prior DNR approval. This continuing obligation also applies to the ROW holders for 503 1st Ave. West, Menomonie, WI.

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

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

PECFA Reimbursement

Section 101.143, Wis. Stats., 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 program 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 within180 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 s. NR 727.13, Wis. Adm. Code, 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 s. 292.15, Wis. Stats, 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 Patrick Collins at 715 684-2914 ext.117, or at Patrick.Collins@Wisconsin.gov

Sincerely,

Dave Rozeboom
West Central Region Team Supervisor
Remediation & Redevelopment Program

Attachments:
- Groundwater Isoconcentration, B.3.b, 1/24/2017
- Remaining Soil Contamination, B.2.b, 1/24/2017

cc: Ron Anderson - METCO

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

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.		
02-17-152462			
Parcel ID No.			
1725122813270020001			
FID No.	**WTM Coordinates**		
	X	Y	
617062490	367160	491674	
BRRTS Activity (Site) Name	**WTM Coordinates Represent:**		
Amberg Oil Tank Farm	☒ Source Area ☐ Parcel Center		
Site Address	**City**	**State**	**ZIP Code**
511 1st Avenue W	Menomonie	WI	54751
Acres Ready For Use			
0.25			

Responsible Party (RP) Name			
Estate of Steve Amberg			
Company Name			
Mailing Address	**City**	**State**	**ZIP Code**
Phone Number	**Email**		

☒ 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, Suite 3	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:

   ☒ $1,050 Closure Fee

   ☒ $350 Database Fee for Groundwater or Monitoring Wells (Not Abandoned)

   ☒ $300 Database Fee for Soil

   Total Amount of Payment $ $1,700.00

   ☐ 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 Amberg Oil Tank Farm property, 511 1st Avenue W, is located at the SE 1/4, NE 1/4, Section 27, Township 28 North, Range 13 West, in the City of Menomonie, Dunn County, Wisconsin. The subject property is bound by 1st Avenue West to the south, the Red Cedar River to the north and west, and an industrial property (503 1st Avenue W) to the east.

B. Prior and current site usage: Specifically describe the current and historic occupancy and types of use.
A bulk petroleum storage facility operated on the property from at least the 1930s until the1980s. The property has been vacant since the 1980s. In 1985, five above ground storage tanks (ASTs) were removed from the subject property. The ASTs consisted of two 6,000-gallon leaded gasoline, two 6,000-gallon fuel oil, and one 6,000-gallon diesel.

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 City of Menomonie zoning map the subject property and the properties to the east and south are all zoned I-3 (General Industrial District). The land to the west and north, along the Red Cedar River, is zoned C (Open Development Conservancy District).

D. Describe how and when site contamination was discovered.
On April 13, 1995, Cedar Corporation conducted a Phase 1 Investigation for Hunt-Wesson Foods. During the Phase 1 Investigation, three soil borings (B-1, B-2, and B-3) were completed on the Amberg Oil property. Two soil samples were collected from each soil boring for laboratory analysis (DRO, GRO, VOC, Lead, and Cadmium). Petroleum compounds were detected in four of the soil samples and subsequently 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 AST systems that existed on the subject property.

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 listings 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 listings for any of the properties directly adjacent to the subject property.

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.
Unconsolidated materials in the area of the investigation generally consist of the following in downward stratigraphic order:

- A tan to gray very fine to coarse grained sand with varying amounts of gravel was encountered from ground surface to depths ranging from 7 to 10 feet bgs.

- A tan to gray to red weathered sandstone was encountered at depths ranging from 7 to 9.5 feet bgs and extending to 9 to 10 feet bgs.

ii. Describe the composition, location and lateral extent, and depth of fill or waste deposits on the site.
Fill materials were not encountered during the site investigation.

iii. Describe the depth to bedrock, bedrock type, competency and whether or not it was encountered during the investigation.
Competent sandstone bedrock appears to exist at depths ranging from 9 to 10 feet bgs based on the Geoprobe boring refusal depths.

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 subject property is covered in tall grass, brush, and trees except for the on-site building, located in the southeast corner of the property, and an area of gravel extending to the south and west of the on-site building. Please see the

Detailed Site Map for current ground surface covers.

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 Geoprobe project, groundwater exists at approximately 7.5 to 8 feet bgs depending on boring location. The stratigraphic units where watertable was found consists of a fine to coarse grained sand with varying amounts of gravel or weathered sandstone to competent sandstone. Free product was not encountered in any of the soil borings.

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

Monitoring wells were not installed as art of this site investigation. Based on data from the GIS Registry for the nearby closed Hunt Wesson MGP Coal Gas Plant Menomonie ERP site (BRRTS# 02-17-000328), the regional groundwater flow appears to be towards the west to slightly southwest.

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

Monitoring wells were not installed as part of this site investigation, however based on the soil boring logs, it appears that the watertable is located within a very fine to coarse grained sand with varying amounts of gravel. Book values for the hydraulic conductivity of sand range from 1X10-3 cm/sec to 1X10-1 cm/sec. Based on April 9, 2003 Groundwater Flow Map for the nearby closed Hunt Wesson MGP Coal Gas Plant Menomonie ERP site (BRRTS# 02-17-000328), the hydraulic gradient for this site is approximately 8.57X10-2. Using the above values and assuming 30% porosity the groundwater flow velocity for this site appear to range from 90 to 9010 m/year for the unconsolidated materials.

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 the City of Menomonie municipal water system. No municipal or private potable wells are known to exist within 1,200 feet of the subject property.

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 April 13, 1995, Cedar Corporation conducted a Phase 1 Investigation for Hunt-Wesson Foods. During the Phase 1 Investigation, three soil borings (B-1, B-2, and B-3) were completed on the Amberg Oil property. Two soil samples were collected from each soil boring for laboratory analysis (DRO, GRO, VOC, Lead, and Cadmium). (Phase 1 Investigation Report, November 1996)

On May 15, 2017, Geiss Soil & Samples, LLC of Merrill, Wisconsin conducted a Geoprobe project under the supervision and direction of METCO personnel. Eighteen Geoprobe borings (G-1 through G-18) were completed with fifty-two soil samples collected for field and/or laboratory analysis (PID, VOC, PVOC, and/or Lead). One soil samples was also submitted for DRO, GRO, TCLP-Benzene and TCLP-Lead analysis Groundwater samples were collected from fifteen Geoprobe borings (G-1 through G-13, G-16, & G-18) for laboratory analysis (PVOC and Naphthalene). (Site Investigation Report, submitted concurrently with this Closure Request)

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.

Unsaturated soil contamination exceeding the NR720 Groundwater RCLs extends beyond the property boundaries into the right-of-way of 1st Avenue W. The area of soil contamination measures approximately 18 feet wide at the property boundary and extends approximately 11 feet into the right-of-way of 1st Avenue W. The soil contamination exists at approximately 7-8 feet bgs in this area.

Groundwater contamination exceeding the NR140 ES extends beyond the property boundaries into the right-of-way of 1st Avenue W. The area of groundwater contamination measures approximately 21 feet wide at the property boundary and extends approximately 10 feet into the right-of-way of 1st Avenue W. The groundwater contamination exists at approximately 7.5-8 feet bgs in this area.

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.

No structural impediments interfered with the completion of the site investigation.

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 RCLs, exists in the area of the former bulk oil tanks and loading area. This irregularly shaped area appears to measure up to 142 feet long, 56 feet wide, and up to 8 feet thick.

No utility lines area known to exist in the area of unsaturated soil contamination.

The extent of unsaturated soil contamination exceeding the NR720 Groundwater RCLs extends beneath the on-site building. However, this is an unoccupied storage building that is elevated approximately 1-1.5 feet above the ground surface with a crawl space below the floor of the structure.

ii. Describe the concentration(s) and types of soil contaminants found in the upper four feet of the soil column.

Unsaturated soil samples exceeding the NR720 Groundwater RCLs within the upper four feet of the soil column remain at the site and include the following sampling locations:

G-10-1 (3.5 feet bgs): 204 ppm Lead.
G-12-1 (3.5 feet bgs): 66.7 ppm Lead.
G-13-1 (3.5 feet bgs): 90.2 ppm Lead.

Unsaturated soil contamination exceeding the NR720 Non-Industrial Direct Contact RCL values does not appear to be present at this site.

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 I-3 - General Industrial District, however non-industrial standards were used for this site.

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.

Dissolved phase contaminant plumes exceeding the NR140 ES and PAL have formed at the watertable in the area of the former loading area (G-1 & G-7) and in the area of the former bulk oil tanks (G-9) and have migrated toward the west. The plume in the area of the former loading area is approximately 40 feet long and 32 feet wide and the plume in the area of the former bulk oil tanks is approximately 22 feet long and 22 feet wide.

The subject property and surrounding properties are all served by the City of Menomonie municipal water system. No municipal or private potable wells are known to exist within 1,200 feet of the subject property.

There are no 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 has never been encountered at this site.

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.

The extent of unsaturated soil contamination exceeding the NR720 Groundwater RCLs and groundwater contamination exceeding the NR140 Enforcement Standards and Preventive Action Limits extends beneath the on-site building. However, this is an unoccupied storage building that is elevated approximately 1-1.5 feet above the ground surface with a crawl space below the floor of the structure.

Vapor intrusion into the on-site structure does not appear to be a risk at this site for the following reasons:
1) Soil contamination in the area of the on-site building exists at approximately 8 feet bgs.
2) Benzene concentrations in groundwater are below the NR140 Preventive Action Limit.
3) Free product has never been encountered at the site.

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).
No indoor air or sub slab vapor samples were collected.

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 the Red Cedar River, which bounds the subject property to the northwest and is located between 40 and 100 feet west to northwest of the former bulk petroleum storage facility. No surface water or sediment samples were collected since it does not appear that the extent of 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.
No remedial actions were conducted.

B. Describe any immediate or interim actions taken at the site under ch NR 708, Wis. Adm. Code.
No immediate or interim actions were conducted.

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.
No remedial actions were conducted.

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 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 RCLs, exists in the area of the former bulk oil tanks and loading area. This irregularly shaped area appears to measure up to 142 feet long, 56 feet wide, and up to 8 feet thick.

Unsaturated soil contamination exceeding the NR720 Groundwater RCLs extends beyond the property boundaries into the right-of-way of 1st Avenue W. The area of soil contamination measures approximately 18 feet wide at the property boundary and extends approximately 11 feet into the right-of-way of 1st Avenue W. The soil contamination exists at approximately 7-8 feet bgs in this area.

Dissolved phase contaminant plumes exceeding the NR140 ES and PAL have formed at the watertable in the area of the former loading area (G-1 & G-7) and in the area of the former bulk oil tanks (G-9) and have migrated toward the west. The plume in the area of the former loading area is approximately 40 feet long and 32 feet wide and the plume in the area of the former bulk oil tanks is approximately 22 feet long and 22 feet wide.

Groundwater contamination exceeding the NR140 ES extends beyond the property boundaries into the right-of-way of 1st Avenue W. The area of groundwater contamination measures approximately 21 feet wide at the property boundary and extends approximately 10 feet into the right-of-way of 1st Avenue W. The groundwater contamination exists at approximately 7.5-8 feet bgs in this area.

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.
No soil samples collected within the upper four feet of the soil column exceeded the NR720 Non-Industrial Direct Contact RCL values.

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.
Unsaturated soil samples exceeding the NR720 Groundwater RCLs remain at the site and include the following sampling locations:

B2 (7.5-9.5 feet bgs): Naphthalene.
G-1-2 (8 feet bgs): Ethylbenzene, Naphthalene, Trimethylbenzenes, and Xylene.
G-6-3 (8.5 feet bgs): Naphthalene.
G-7-3 (8.5 feet bgs): Benzene, Naphthalene, Trimethylbenzenes, and Xylene.
G-9-3 (8.5 feet bgs): Naphthalene and Trimethylbenzenes.
G-10-1 (3.5 feet bgs): Lead.
G-11-3 (10 feet bgs): Naphthalene.
G-12-1 (3.5 feet bgs): Lead.
G-12-3 (8.5 feet bgs): Naphthalene.
G-13-1 (3.5 feet bgs): Lead.
G-17-3 (8.5 feet bgs): Naphthalene.

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.

Any remaining exposure pathways will be addressed via natural attenuation.

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).

Based on the limited extent and degree of groundwater contamination, natural attention appears to be an effective method in reducing contaminant mass and concentration.

J. Identify how all exposure pathways (soil, groundwater, vapor) were removed and/or adequately addressed by immediate, interim and/or remedial action(s).

No immediate, interim, or remedial actions were conducted.

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.

Geoprobe groundwater sample G-1-W showed NR140 ES exceedances for Naphthalene (450 ppb) and Trimethylbenzenes (1,313 ppb). The contaminant concentrations of Ethylbenzene (141 ppb) and Xylene (1,290 ppb) exceeded of the NR140 PAL.

Geoprobe groundwater sample G-7-W showed a NR140 ES exceedance for Trimethylbenzenes (1,113 ppb). The contaminant concentration of Naphthalene (40 ppb) exceeded of the NR140 PAL.

Geoprobe groundwater sample G-9-W showed a NR140 ES exceedance for Naphthalene (156 ppb). The contaminant concentration of Trimethylbenzenes (191 ppb) exceeded of the NR140 PAL.

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.

No indoor air/sub slab vapor samples were collected.

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

Notifications to Owners of Affected Properties (Attachment G)

							Reasons Notification Letter Sent:													
ID	Address of Affected Property	Parcel ID No.	Date of Receipt of Letter	Type of Property Owner	WTMX	WTMY	Residual Groundwater Contamination = or > ES	Residual Soil Contamination Exceeds RCLs	Monitoring Wells: Not Abandoned	Monitoring Wells: Continued Monitoring	Cover/Barrier/Engineered Control	Structural Impediment	Industrial RCLs Met/Applied	Vapor Mitigation System(VMS)	Dewatering System Needed for VMS	Compounds of Concern in Use	Commercial/Industrial Vapor Exposure Assumptions Applied	Residual Volatile Contamination Poses Future Risk of Vapor Intrusion	Site Specification Situation
A	1st Avenue West	Right-of-way	07/26/2018	ROWH	367163	491652	X	X											
B																			
C																			
D																			

Signatures and Findings for Closure Determination

Check the correct box for this case closure request, and have either a professional engineer or a hydrogeologist, as defined in ch. NR 712, Wis. Adm. Code, sign this document.

☒ A response action(s) for this site addresses groundwater contamination (including natural attenuation remedies).

☐ The response action(s) for this site addresses media other than groundwater.

Engineering Certification

I _____ 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 case closure request has been prepared by me or prepared under my supervision 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 case closure request is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code. Specifically, with respect to compliance with the rules, in my professional opinion a site investigation has been conducted in accordance with ch. NR 716, Wis. Adm. Code, and all necessary remedial actions have been completed in accordance with chs. NR 140, NR 718, NR 720, NR 722, NR 724 and NR 726, Wis. Adm. Codes."

Printed Name | Title

Signature | Date | P.E. Stamp and Number

Hydrogeologist Certification

I Ronald J. Anderson hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this case closure request is correct and the document was prepared by me or prepared by me or prepared under my supervision and, in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code. Specifically, with respect to compliance with the rules, in my professional opinion a site investigation has been conducted in accordance with ch. NR 716, Wis. Adm. Code, and all necessary remedial actions have been completed in accordance with chs. NR 140, NR 718, NR 720, NR 722, NR 724 and NR 726, Wis. Adm. Codes."

Ronald J. Anderson
Printed Name

Senior Hydrogeologist/Project Manager
Title

Ronald J. Anderson PG
Signature

8/14/18
Date

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 - No vapor samples were assessed as part of the site investigation.

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

A.6 Water Level Elevations – Monitoring wells were not installed as part of this site investigation.

A.7 Other

A.1 Groundwater Analytical Table
(Geoprobe)
Amberg Oil Tank Farm BRRTS #02-17-152462

Sample ID	Date	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
G-1-W	05/15/17	0.31	*141*	<0.82	**450**	39	**1313**	*1290*
G-2-W	05/15/17	<0.17	<0.2	<0.82	<2.17	5.0	<2.05	<1.95
G-3-W	05/15/17	<0.85	<1	<4.1	<10.85	4.8	<10.25	<9.75
G-4-W	05/15/17	<0.17	<0.2	<0.82	<2.17	3.4	<2.05	<1.95
G-5-W	05/15/17	<0.85	<1	<4.1	<10.85	<3.35	<10.25	<9.75
G-6-W	05/15/17	<0.17	<0.2	<0.82	<2.17	2.96	<2.05	<1.95
G-7-W	05/15/17	<1.7	48	<8.2	*40*	<6.7	**1113**	324
G-8-W	05/15/17	<0.17	<0.2	<0.82	<2.17	<0.67	1.92-2.83	<1.95
G-9-W	05/15/17	<0.17	21.6	<0.82	**156**	<0.67	*191*	18.57
G-10-W	05/15/17	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
G-11-W	05/15/17	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
G-12-W	05/15/17	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
G-13-W	05/15/17	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
G-14-W	05/15/17	NO RECOVERY						
G-15-W	05/15/17	NO RECOVERY						
G-16-W	05/15/17	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
G-17-W	05/15/17	NO RECOVERY						
G-18-W	05/15/17	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
ENFORCE MENT STANDARD ES = Bold		**5**	**700**	**60**	**100**	**800**	**480**	**2000**
PREVENTIVE ACTION LIMIT PAL = Italics		*0.5*	*140*	*12*	*10*	*160*	*96*	*400*

NS = Not Sampled
(ppb) = parts per billion (ppm) = parts per million
DRO = Diesel Range Organics
GRO = Gasoline Range Organics

A.2 Soil Analytical Results Table
Amberg Oil Tank Farm BRRTS #02-17-152462

																DIRECT CONTACT PVOC & PAH COMBINED		
Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naph-thalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppb)	Exeedance Count	Hazard Index	Cumulative Cancer Risk
B1	5-7	U	04/19/95	NM	12.5	<10	<10	<0.025	<0.025	NS	<0.050	<0.025	NS	NS	<0.025	SEE VOC SHEET			
B1	7.5-9.5	U	04/19/95	NM	8.8	<10	<10	<0.025	<0.025	NS	0.099	<0.025	NS	NS	<0.025	SEE VOC SHEET			
B2	5-7	U	04/19/95	NM	5.3	220	<10	<0.025	<0.025	NS	<0.050	<0.025	NS	NS	<0.025	SEE VOC SHEET			
B2	7.5-9.5	U	04/19/95	NM	7.1	860	110	<0.025	<0.025	NS	**0.22**	<0.025	NS	NS	<0.025	SEE VOC SHEET			
B3	5-7	U	04/19/95	NM	6.2	54	<10	<0.025	<0.025	NS	<0.050	<0.025	NS	NS	<0.025	SEE VOC SHEET			
B3	7.5-9.5	U	04/19/95	NM	4.6	3200	46	<0.025	<0.025	NS	<0.050	<0.025	NS	NS	<0.025	SEE VOC SHEET			
G-1-1	3.5	U	05/15/17	2.90	2.46	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS	0	0.0001	1.4E-08
G-1-2	8.0	U	05/15/17	369.00	10.7	364	960	<0.030	**4.0**	<0.5	**12.6**	<0.32	**72**	**24**	**38.2**	TCLP LEAD <0.1 TCLP BENZENE <0.05 SEE VOC SHEET			
G-1-3	10.0	U	05/15/17	165.00	NOT SAMPLED											NS			
G-2-1	3.5	U	05/15/17	1.10	2.31	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS	0		
G-2-2	8.0	U	05/15/17	1.80	NOT SAMPLED											NS			
G-2-3	8.5	U	05/15/17	27.00	NS	NS	NS	<0.025	<0.025	<0.025	0.050	<0.025	0.050	0.032	<0.075	NS			
G-3-1	3.5	U	05/15/17	5.60	2.87	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS	0		
G-3-2	7.0	U	05/15/17	8.20	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-3-3	9.0	U	05/15/17	10.40	NOT SAMPLED											NS			
G-4-1	3.5	U	05/15/17	12.30	2.74	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS	0		
G-4-2	7.5	U	05/15/17	5.70	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-4-3	10.0	U	05/15/17	6.40	NOT SAMPLED											NS			
G-5-1	3.5	U	05/15/17	5.30	11.1	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS	0	0.0008	1.4E-07
G-5-2	8.0	U	05/15/17	4.10	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-5-3	10.0	U	05/15/17	5.10	NOT SAMPLED											NS			
G-6-1	3.5	U	05/15/17	9.50	3.52	NS	NS	<0.025	<0.025	<0.025	0.094	0.032	0.0254	<0.025	0.102	NS	0	0.0035	5.3E-07
G-6-2	8.0	U	05/15/17	5.70	NOT SAMPLED											NS			
G-6-3	8.5	U	05/15/17	21.00	NS	NS	NS	<0.025	0.067	<0.025	**7.7**	<0.025	0.43	0.91	0.250	NS			
G-7-1	3.5	U	05/15/17	5.40	2.93	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS	0		
G-7-2	8.0	U	05/15/17	4.70	NOT SAMPLED											NS			
G-7-3	8.5	U	05/15/17	330.00	NS	NS	NS	**0.48**	0.82	<0.25	**4.6**	<0.25	**31**	**14**	**4.38**	NS			
G-8-1	3.5	U	05/15/17	8.20	NOT SAMPLED											NS	0		
G-8-2	8.0	U	05/15/17	3.60	NOT SAMPLED											NS			
G-8-3	10.0	U	05/15/17	4.80	NOT SAMPLED											NS			
G-9-1	3.5	U	05/15/17	5.90	4.77	NS	NS	<0.025	0.0254	<0.025	0.06	<0.025	<0.025	<0.025	<0.075	NS	0	0.0034	6.2E-07
G-9-2	8.0	U	05/15/17	5.30	NOT SAMPLED											NS			
G-9-3	8.5	U	05/15/17	129.00	NS	NS	NS	<0.125	<0.125	<0.125	3.2	0.131	**2.15**	**1.61**	0.665	NS			
G-10-1	3.5	U	05/15/17	3.30	**204**	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS	0	0.5100	
G-10-2	8.0	U	05/15/17	6.20	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-10-3	10.0	U	05/15/17	5.00	NOT SAMPLED											NS			
G-11-1	NO RECOVERY															NS			
G-11-2	NO RECOVERY															NS			
G-11-3	10.0	U	05/15/17	114.00	NS	NS	NS	<0.125	<0.125	<0.125	**6.0**	0.16	0.52	0.71	0.561	NS			
G-12-1	3.5	U	05/15/17	2.00	**66.7**	NS	NS	<0.025	<0.025	<0.025	0.094	<0.025	<0.025	<0.025	<0.075	NS	0	0.1720	9.1E-07
G-12-2	8.0	U	05/15/17	5.00	NOT SAMPLED											NS			
G-12-3	8.5	U	05/15/17	19.00	NS	NS	NS	<0.025	<0.025	<0.025	**0.93**	<0.025	<0.025	<0.025	<0.075	NS			
G-13-1	3.5	U	05/15/17	1.40	**90.2**	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS	0	0.2255	1.2E-08
G-13-2	8.0	U	05/15/17	1.80	NOT SAMPLED											NS			
G-13-3	8.5	U	05/15/17	1.30	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-14-1	3.5	U	05/15/17	2.10	NOT SAMPLED											NS	0		
G-14-2	8.0	U	05/15/17	1.60	NOT SAMPLED											NS			
G-14-3	10.0	U	05/15/17	1.10	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-15-1	3.5	U	05/15/17	3.00	NOT SAMPLED											NS	0		
G-15-2	8.0	U	05/15/17	3.60	NOT SAMPLED											NS			
G-15-3	9.0	U	05/15/17	2.30	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-16-1	3.5	U	05/15/17	1.60	NOT SAMPLED											NS	0		
G-16-2	8.0	U	05/15/17	1.10	NOT SAMPLED											NS			
G-16-3	10.0	U	05/15/17	1.20	NOT SAMPLED											NS			
G-17-1	3.5	U	05/15/17	1.50	NOT SAMPLED											NS	0		
G-17-2	8.0	U	05/15/17	1.80	NOT SAMPLED											NS			
G-17-3	8.5	U	05/15/17	495.00	NS	NS	NS	<0.025	0.037	<0.025	**3.3**	0.047	0.54	0.33	0.232	NS			
G-18-1	3.5	U	05/15/17	2.60	NOT SAMPLED											NS	0		
G-18-2	8.0	U	05/15/17	3.00	NOT SAMPLED											NS			
G-18-3	9.0	U	05/15/17	2.40	NOT SAMPLED											NS			
Groundwater RCL					**27**	-	-	**0.00512**	**1.57**	**0.027**	**0.6582**	**1.11**	**1.38**		**3.96**	-			
Non-Industrial Direct Contact RCL					**400**	-	-	**1.6**	**8.02**	**63.8**	**5.52**	**818**	**219**	**182**	**260**	-		1.00E+00	1.00E-05
Industrial Direct Contact RCL					**(800)**	-		**(7.07)**	**(35.4)**	**(282)**	**(24.1)**	**(818)**	**(219)**	**(182)**	**(258)**	-		1.00E+00	1.00E-05
Soil Saturation Concentration (C-sat)*					-	-	-	**1820***	**480***	**8870***	-	**818***	**219***	**182***	**258***	-			

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(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance
Bold & Asteric * = C-sat Exceedance
Italics = Industrial Direct Contact RCL
NS = Not Sampled
NM = Not Measured
(ppm) = parts per million
ND = No Detects
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
(PAH)
Amberg Oil Tank Farm BRRTS #02-17-152462

																					DIRECT CONTACT PVOC & PAH COMBINED		
Sample	Depth (feet)	Saturation U/S	Date	Acenaph-thene (ppm)	Acenaph-thylene (ppm)	Anthracene (ppm)	Benzo(a) anthracene (ppm)	Benzo(a) pyrene (ppm)	Benzo(b) fluoranthene (ppm)	Benzo(g,h,I) perylene (ppm)	Benzo(k) fluoranthene (ppm)	Chrysene (ppm)	Dibenzo(a,h) anthracene (ppm)	Fluoranthene (ppm)	Fluorene (ppm)	Indeno(1,2,3-cd) pyrene (ppm)	1-Methyl-naphthalene (ppm)	2-Methyl-naphthalene (ppm)	Naph-thalene (ppm)	Phenan-threne (ppm)	Pyrene (ppm)	Exeedance Count	Hazard Index	Cumulative Cancer Risk
G-1-1	3.5	U	05/15/17	<0.0151	<0.0159	0.141	0.0164	<0.0113	<0.013	0.0159	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	0.0164	<0.0153	0.0125	<0.0153	0	0.0001	1.4E-08
G-2-1	3.5	U	05/15/17	<0.0151	<0.0159	<0.0109	<0.0116	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0		
G-3-1	3.5	U	05/15/17	<0.0151	<0.0159	<0.0109	<0.0116	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0		
G-4-1	3.5	U	05/15/17	<0.0151	<0.0159	<0.0109	<0.0116	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0		
G-5-1	3.5	U	05/15/17	<0.0151	<0.0159	<0.0109	0.0176	0.0119	0.0189	0.0216	<0.0147	0.0207	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	0.0191	<0.0153	0.0307	0.0241	0	0.0008	1.4E-07
G-6-1	3.5	U	05/15/17	<0.0151	0.0172	0.0203	0.038	0.032	0.049	0.053	<0.0147	0.053	0.0137	0.037	<0.0179	0.0298	0.153	0.203	0.094	0.133	0.06	0	0.0035	5.3E-07
G-7-1	3.5	U	05/15/17	<0.0151	<0.0159	<0.0109	<0.0116	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0		
G-9-1	3.5	U	05/15/17	<0.0151	0.0291	0.0164	0.034	0.038	0.058	0.094	0.0191	0.04	0.0163	0.0293	<0.0179	0.047	0.197	0.206	0.06	0.078	0.048	0	0.0034	6.2E-07
G-10-1	3.5	U	05/15/17	<0.0151	<0.0159	<0.0109	<0.0116	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0	0.5100	
G-12-1	3.5	U	05/15/17	<0.0151	0.03	0.0219	0.046	0.064	0.074	0.128	0.0182	0.062	0.0192	0.045	<0.0179	0.064	0.159	0.24	0.094	0.113	0.079	0	0.1720	9.1E-07
G-13-1	3.5	U	05/15/17	<0.0151	<0.0159	<0.0109	0.0139	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0	0.2255	1.2E-08
Groundwater RCL				---	---	**197**	---	**0.47**	**0.4793**	---	---	**0.145**	---	**88.8**	**14.8**	---	---	---	**0.6582**	---	**54.5**			
Non-Industrial Direct Contact RCL				**3590**	---	**17900**	**1.140**	**0.1150**	**1.150**	---	**11.50**	**115**	**0.1150**	**2390**	**2390**	**1.150**	**17.6**	**239**	**5.52**	---	**1790**		**1.00E+00**	**1.00E-05**
Industrial Direct Contact RCL				**(45200)**	---	**(100000)**	**(20.8)**	**(2.11)**	**(21.1)**	---	**(211)**	**(2110)**	**(2.11)**	**(30100)**	**(30100)**	**(21.1)**	**(72.7)**	**(3010)**	**(24.1)**	---	**(22600)**			
Soil Saturation Concentration (C-sat)*				---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			

Bold = Groundwater RCL Exceedance
Bold & Underline = Non Industrial Direct Contact RCL Exceedance
(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance
Bold &Asteric * = C-sat Exceedance
Italics = Industrial Direct Contact RCL
NS = Not Sampled
(ppm) = parts per million
PAH = Polynuclear Aromatic Hydrocarbons
PID = Photoionization Detector
VOC's = Volatile Organic Compounds

NM = Not Measured
ND = No Detects

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
Amberg Oil Tank Farm BRRTS #02-17-152462

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naph-thalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppb)	DIRECT CONTACT PVOC & PAH COMBINED: Exeedance Count	Hazard Index	Cumulative Cancer Risk
B2	7.5-9.5	U	04/19/95	NM	7.1	860	110	<0.025	<0.025	NS	**0.22**	<0.025	NS	NS	<0.025	SEE VOC SHEET			
G-1-2	8.0	U	05/15/17	369.00	10.7	364	960	<0.030	**4.0**	<0.5	**12.6**	<0.32	**72**	**24**	**38.2**	TCLP LEAD <0.1 TCLP BENZENE <0.05 SEE VOC SHEET			
G-6-3	8.5	U	05/15/17	21.00	NS	NS	NS	<0.025	0.067	<0.025	**7.7**	<0.025	0.43	0.91	0.250	NS			
G-7-3	8.5	U	05/15/17	330.00	NS	NS	NS	**0.48**	0.82	<0.25	**4.6**	<0.25	**31**	**14**	**4.38**	NS			
G-9-3	8.5	U	05/15/17	129.00	NS	NS	NS	<0.125	<0.125	<0.125	**3.2**	0.131	**2.15**	**1.61**	0.665	NS			
G-10-1	3.5	U	05/15/17	3.30	**204**	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS	0	0.5100	
G-11-3	10.0	U	05/15/17	114.00	NS	NS	NS	<0.125	<0.125	<0.125	**6.0**	0.16	0.52	0.71	0.561	NS			
G-12-1	3.5	U	05/15/17	2.00	**66.7**	NS	NS	<0.025	<0.025	<0.025	0.094	<0.025	<0.025	<0.025	<0.075	NS	0	0.1720	9.1E-07
G-12-3	8.5	U	05/15/17	19.00	NS	NS	NS	<0.025	<0.025	<0.025	**0.93**	<0.025	<0.025	<0.025	<0.075	NS			
G-13-1	3.5	U	05/15/17	1.40	**90.2**	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS	0	0.2255	1.2E-08
G-17-3	8.5	U	05/15/17	495.00	NS	NS	NS	<0.025	0.037	<0.025	**3.3**	0.047	0.54	0.33	0.232	NS			
Groundwater RCL					**27**	-	-	**0.00512**	**1.57**	**0.027**	**0.6582**	**1.11**	**1.38**		**3.96**	-			
Non-Industrial Direct Contact RCL					**400**	-	-	**1.6**	**8.02**	**63.8**	**5.52**	**818**	**219**	**182**	**260**	-		1.00E+00	1.00E-05
Industrial Direct Contact RCL					**(800)**	-		**(7.07)**	**(35.4)**	**(282)**	**(24.1)**	**(818)**	**(219)**	**(182)**	**(258)**	-		1.00E+00	1.00E-05
Soil Saturation Concentration (C-sat)*					-	-	-	**1820***	**480***	**8870***	-	**818***	**219***	**182***	**258***	-			

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Bold & Asteric * = C-sat Exceedance
Italics = Industrial Direct Contact RCL
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NM = Not Measured
(ppm) = parts per million
ND = No Detects
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)
Note: Non-Industrial RCLs apply to this site.

A.3 Residual Soil Contamination Table
(PAH)
Amberg Oil Tank Farm BRRTS #02-17-152462

																					DIRECT CONTACT PVOC & PAH COMBINED		
Sample	Depth (feet)	Saturation U/S	Date	Acenaph-thene (ppm)	Acenaph-thylene (ppm)	Anthracene (ppm)	Benzo(a) anthracene (ppm)	Benzo(a) pyrene (ppm)	Benzo(b) fluoranthene (ppm)	Benzo(g,h,i) perylene (ppm)	Benzo(k) fluoranthene (ppm)	Chrysene (ppm)	Dibenzo(a,h) anthracene (ppm)	Fluoranthene (ppm)	Fluorene (ppm)	Indeno(1,2,3-cd) pyrene (ppm)	1-Methyl-naphthalene (ppm)	2-Methyl-naphthalene (ppm)	Naph-thalene (ppm)	Phenan-threne (ppm)	Pyrene (ppm)	Exeedance Count	Hazard Index	Cumulative Cancer Risk
G-10-1	3.5	U	05/15/17	<0.0151	<0.0159	<0.0109	<0.0116	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0	0.5100	
G-12-1	3.5	U	05/15/17	<0.0151	0.03	0.0219	0.046	0.064	0.074	0.128	0.0182	0.062	0.0192	0.045	<0.0179	0.064	0.159	0.24	0.094	0.113	0.079	0	0.1720	9.1E-07
G-13-1	3.5	U	05/15/17	<0.0151	<0.0159	<0.0109	0.0139	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0	0.2255	1.2E-08
Groundwater RCL				---	---	**197**	---	**0.47**	**0.4793**	---	---	**0.145**	---	**88.8**	**14.8**	---	---	---	**0.6582**	---	**54.5**			
Non-Industrial Direct Contact RCL				**3590**	---	**17900**	**1.140**	**0.1150**	**1.150**	---	**11.50**	**115**	**0.1150**	**2390**	**2390**	**1.150**	**17.6**	**239**	**5.52**	---	**1790**		**1.00E+00**	**1.00E-05**
Industrial Direct Contact RCL				**(45200)**	---	**(100000)**	**(20.8)**	**(2.11)**	**(21.1)**	---	**(211)**	**(2110)**	**(2.11)**	**(30100)**	**(30100)**	**(21.1)**	**(72.7)**	**(3010)**	**(24.1)**	---	**(22600)**			
Soil Saturation Concentration (C-sat)*				---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			

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VOC's = Volatile Organic Compounds

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A.7 Other

Amberg Oil Tank Farm

Hydraulic Conductivity Calculations

Book Values for Sand

	cm/s	m/yr
K (low)	1.0E-03	315.36
K (high)	1.0E-01	31536.00

Date	Elv. (High)	Elv. (Low)	Distance (ft)	Hyd Grad (I)
04/09/2003	806.00	782.00	280	8.57E-02

	K (m/yr)	I	n	Flow Velocity (m/yr)
K (low)	315.36	0.0857142	0.3	90
K (high)	31536	0.0857142	0.3	9010

Attachment B/Maps, Figures, and Photos

B.1 Location Maps

B.1.a Location Map

B.1.b Detailed Site Map

B.1.c RR Sites Map

B.2 Soil Figures

B.2.a Soil Contamination

B.2.b Residual Soil Contamination

B.3 Groundwater Figures

B.3.a Geologic Cross-Section Figure(s)

B.3.b Groundwater Isoconcentration

B.3.c Groundwater Flow Direction – Monitoring wells were not installed as art of this site investigation. Based on data from the GIS Registry for the nearby closed Hunt Wesson MGP Coal Gas Plant Menomonie ERP site (BRRTS# 02-17-000328), the regional groundwater flow appears to be towards the west to slightly southwest.

B.3.d Monitoring Wells

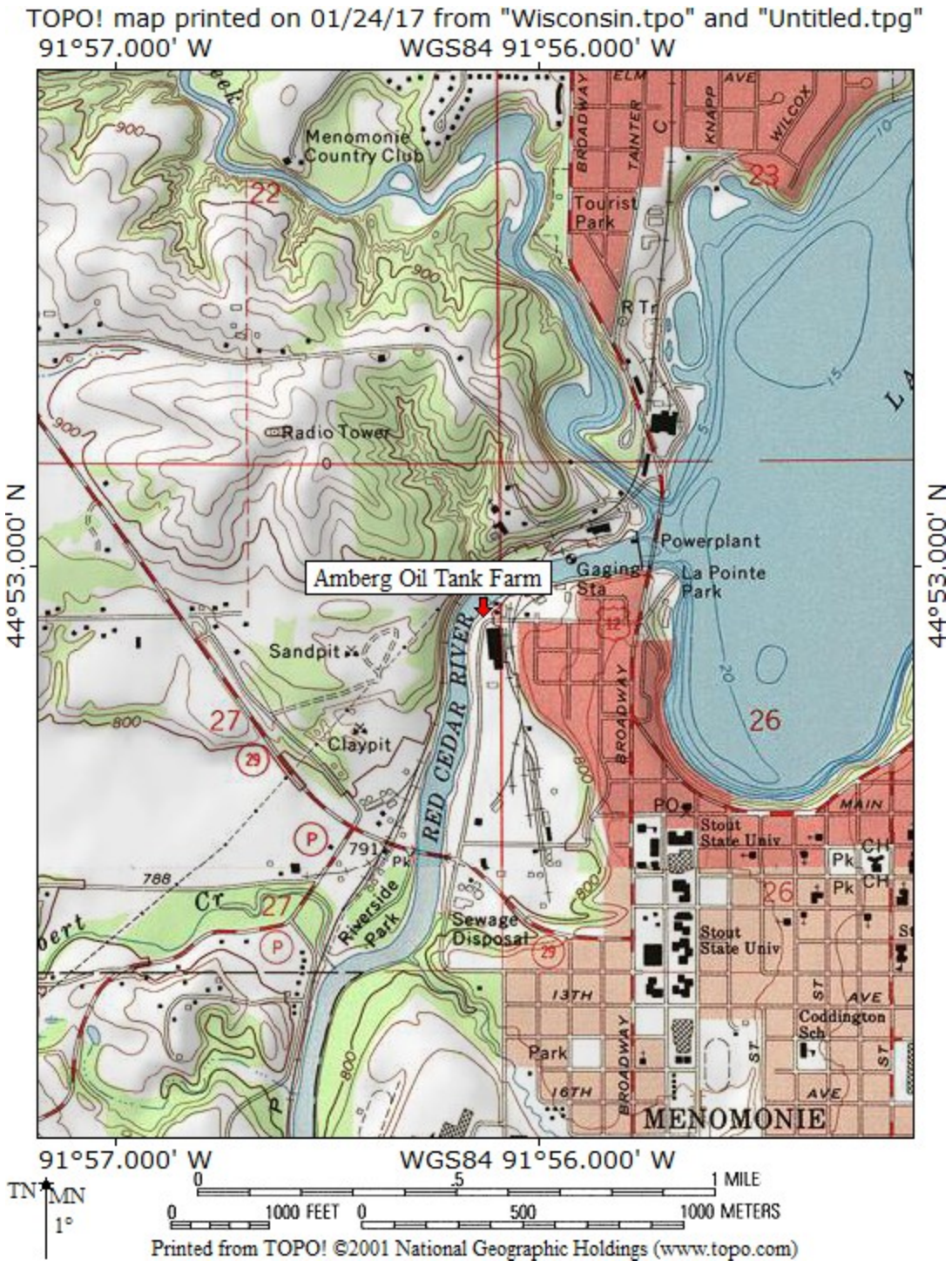
B.4 Vapor Maps and Other Media

B.4.a Vapor Intrusion Map - No vapor samples were assessed as part of the site investigation.

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.



B.1.a LOCATION MAP CONTOUR INTERVAL 20 FEET
AMBERG OIL TANK FARM – MENOMONIE, WI
SEAMLESS USGS TOPOGRAPHIC MAPS ON CD-ROM

B.I.b DETAILED SITE MAP

AMBERG OIL TANK FARM

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

MENOMONIE, WISCONSIN
DRAWN BY: ED
DATE: 01/24/2007

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

KEY TO FORMER TANK SYSTEM
A - OIL PUMP HOUSE - 1951 SANBORN MAP
B - BULK OIL TANK - 1951 SANBORN MAP
C - OIL WHAREHOUSE - 1951 SANBORN MAP
D - BULK OIL TANK - 1972 AERIAL PHOTO

- WATER LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- NATURAL GAS LINE
- BURIED ELECTRIC LINE
- TELEPHONE/FIBER OPTIC LINE
- PROPERTY BOUNDARY

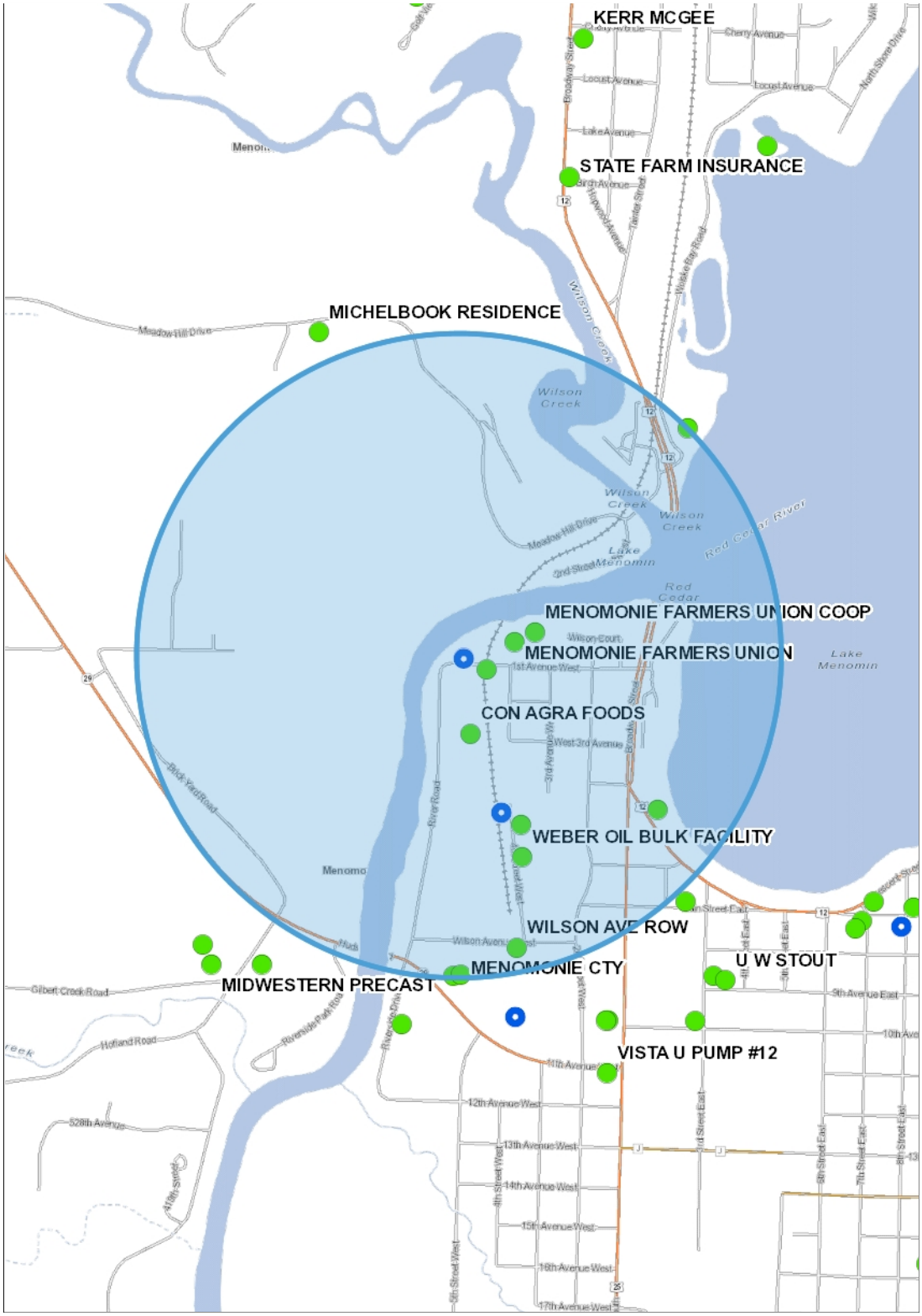
- PIESA SOIL SAMPLE LOCATION (1995)
- ABANDONED MONITORING WELL LOCATION - HUNT WESSON
- MONITORING WELL LOCATION
- SOIL BORING LOCATION

SCALE:
1 INCH = 30 FEET
0 15 30

RED CEDAR RIVER
FLOW
RIVER ROAD
CITY OF MENOMONIE
NO ADDRESS
CONAGRA FOODS
IST AVENUE W
STORAGE BUILDING
503 IST AVENUE W
FORMER COAL STORAGE AREA
EARTHEN BERM
EARTHEN BERM
EARTHEN BERM
GRAVEL
SHED
LOADING AREA
OVERHANG
CONCRETE
GRASS
GRASS
GRAVEL
MW-50
MW-49
MW-51
A
B
C
D
VAN
G-1
G-2
G-3
G-4
G-5
G-6
G-7
G-8
G-9
G-10
G-11
G-12
G-13
G-14
G-15
G-16
G-17
G-18
B-1
B-2
B-3

HUNT WESSON MGP COAL GAS PLANT - MENOMONIE
BRRTS# 02-17-000328

B.1.c. RR Sites Map



Legend

- Open Site (ongoing cleanup)
- Closed Site (completed cleanup)
- Municipality
- State Boundaries
- County Boundaries
- Major Roads
  - Interstate Highway
  - State Highway
  - US Highway
- County and Local Roads
  - County HWY
  - Local Road
- Railroads
- Tribal Lands

0.5 0 Distance / 2 0.5 Miles

1: 15,840

NAD_1983_HARN_Wisconsin_TM

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 aregarding accuracy, applicability for a particular use, completemenss, 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.

Notes

Amberg Oil Tank Farm
511 1st Avenue W
Menomonie, Wisconsin

B.2.a. SOIL CONTAMINATION

AMBERG OIL TANK FARM

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

MENOMONIE, WISCONSIN

DRAWN BY: ED

DATE: 01/24/2017

SCALE:
1 INCH = 30 FEET
0 15 30

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

- ● - PIESA SOIL SAMPLE LOCATION (1995)
- ◔ - ABANDONED MONITORING WELL LOCATION - HUNT WESSON
- ◕ - MONITORING WELL LOCATION
- ✕ - SOIL BORING LOCATION

WATER LINE
SANITARY SEWER LINE
STORM SEWER LINE
NATURAL GAS LINE
BURIED ELECTRICAL LINE
TELEPHONE/FIBER OPTIC LINE
PROPERTY BOUNDARIES (APPROXIMATE)
OVERHEAD UTILITIES

KEY TO FORMER TANK SYSTEM
A - OIL PUMP HOUSE - 1951 SANBORN MAP
B - BULK OIL TANK - 1951 SANBORN MAP
C - OIL WHAREHOUSE - 1951 SANBORN MAP
D - BULK OIL TANK - 1972 AERIAL PHOTO

RED CEDAR RIVER

FLOW

RIVER ROAD

CITY OF MENOMONIE
NO ADDRESS

CONAGRA FOODS

EARTHEN BERM

EARTHEN BERM

EARTHEN BERM

STORAGE BUILDING
503 1ST AVENUE W

FORMER COAL STORAGE AREA

MW-50

MW-49

MW-51

G-1 G-2 G-3 G-4 G-5 G-6 G-7 G-8 G-9 G-10 G-11 G-12 G-13 G-14 G-15 G-16 G-17 G-18

B-2 B-3

A B C D D VAN

GRAVEL

SHED

GRASS

CONCRETE

LOADING AREA

OVERHANG

LH

ESTIMATED EXTENT OF UNSATURATED SOIL CONTAMINATION EXCEEDING THE NR720 GROUNDWATER RCL VALUES

1ST AVENUE W

HUNT WESSON MGP COAL GAS PLANT - MENOMONIE
BRRTS# 02-17-000328

B.2.b. RESIDUAL SOIL CONTAMINATION

AMBERG OIL TANK FARM

MENOMONIE, WISCONSIN

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Fax: (608) 781-8893
Excellence through experience

DRAWN BY: ED
DATE: 01/24/2007

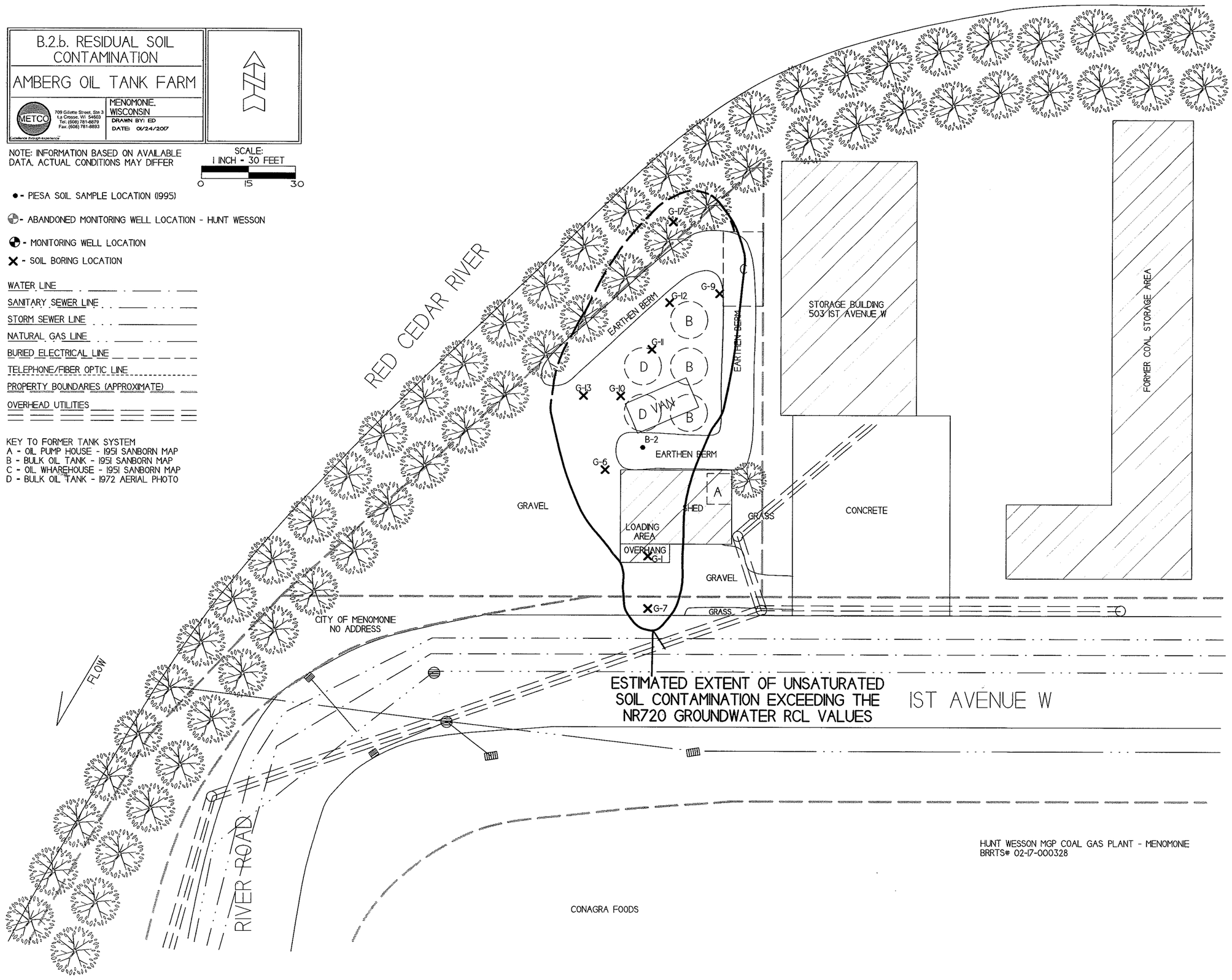
NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

SCALE:
1 INCH = 30 FEET
0 15 30

- ● - PIESA SOIL SAMPLE LOCATION (1995)
- ◍ - ABANDONED MONITORING WELL LOCATION - HUNT WESSON
- ◍ - MONITORING WELL LOCATION
- ✕ - SOIL BORING LOCATION

WATER LINE
SANITARY SEWER LINE
STORM SEWER LINE
NATURAL GAS LINE
BURIED ELECTRICAL LINE
TELEPHONE/FIBER OPTIC LINE
PROPERTY BOUNDARIES (APPROXIMATE)
OVERHEAD UTILITIES

KEY TO FORMER TANK SYSTEM
A - OIL PUMP HOUSE - 1951 SANBORN MAP
B - BULK OIL TANK - 1951 SANBORN MAP
C - OIL WHAREHOUSE - 1951 SANBORN MAP
D - BULK OIL TANK - 1972 AERIAL PHOTO



HUNT WESSON MGP COAL GAS PLANT - MENOMONIE
BRRTS# 02-17-000328

B.3.a. GEOLOGIC CROSS -SECTION FIGURE

AMBERG OIL TANK FARM

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

MENOMONIE.
WISCONSIN
DRAWN BY: ED
DATE: 01/24/2017

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

SCALE:
1 INCH = 30 FEET
0 15 30

● - PIESA SOIL SAMPLE LOCATION (1995)

- ABANDONED MONITORING WELL LOCATION - HUNT WESSON

✕ - SOIL BORING LOCATION

WATER LINE

SANITARY SEWER LINE

STORM SEWER LINE

NATURAL GAS LINE

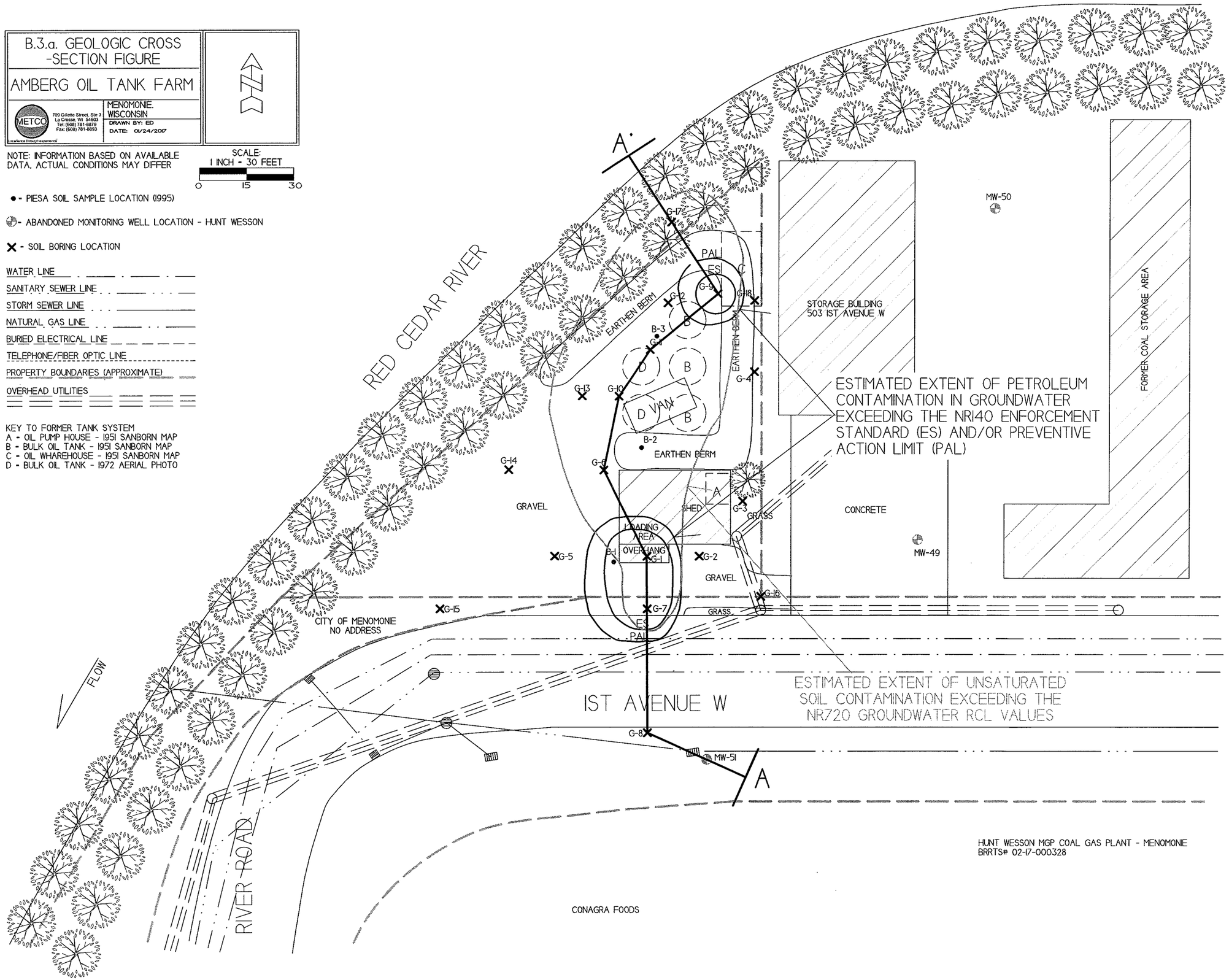
BURIED ELECTRICAL LINE

TELEPHONE/FIBER OPTIC LINE

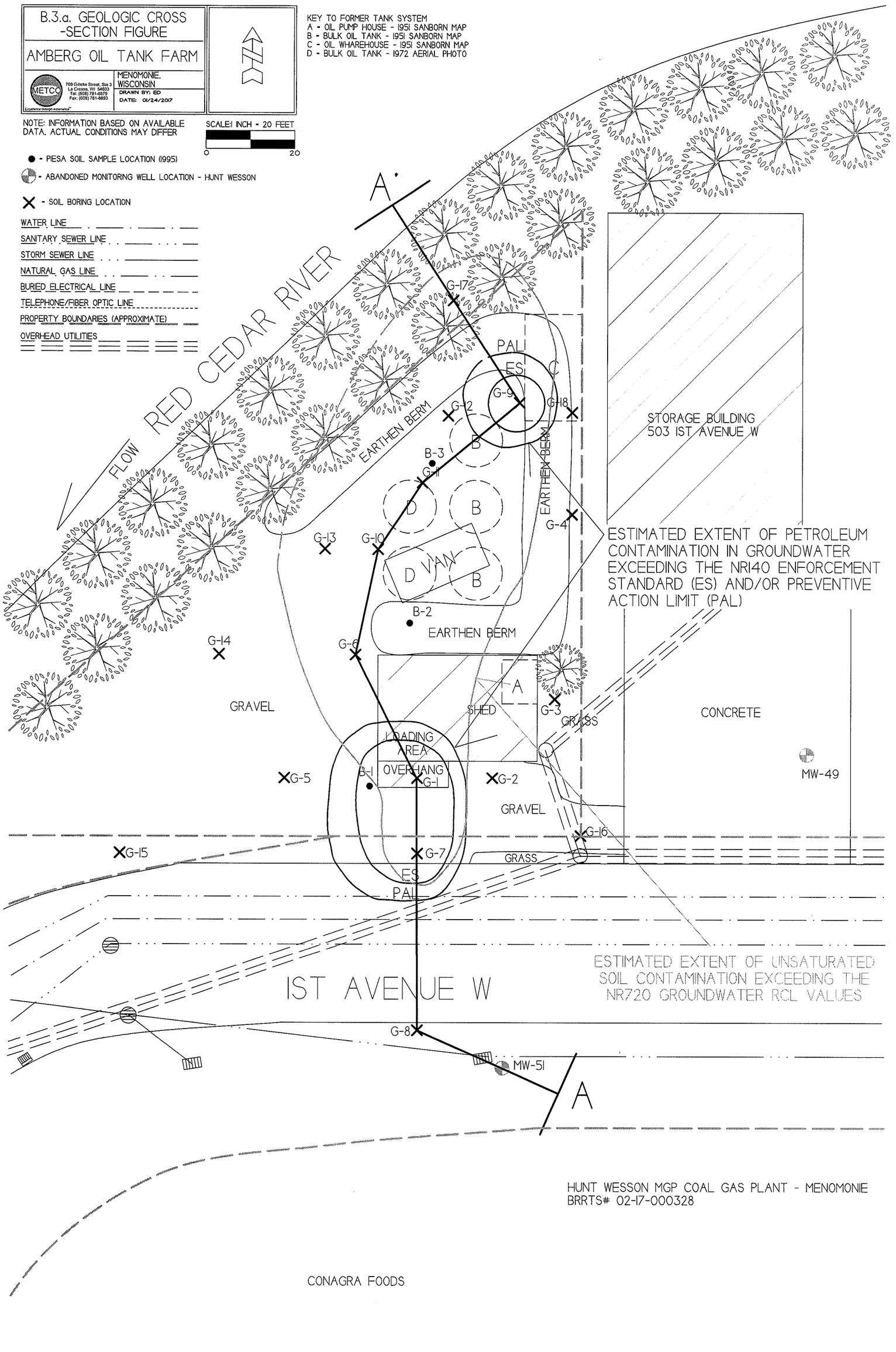
PROPERTY BOUNDARIES (APPROXIMATE)

OVERHEAD UTILITIES

KEY TO FORMER TANK SYSTEM
A - OIL PUMP HOUSE - 1951 SANBORN MAP
B - BULK OIL TANK - 1951 SANBORN MAP
C - OIL WHAREHOUSE - 1951 SANBORN MAP
D - BULK OIL TANK - 1972 AERIAL PHOTO



HUNT WESSON MGP COAL GAS PLANT - MENOMONIE
BRRTS# 02-17-000328


B.3.a. GEOLOGIC CROSS -SECTION FIGURE
AMBERG OIL TANK FARM
METCO
709 Gillette Street, Ste 3
La Crosse, WI 54603
Tel: (608) 781-8870
Fax: (608) 781-8850
"Excellence through experience"
MENOMONIE, WISCONSIN
DRAWN BY: ED
DATE: 01/24/2017
KEY TO FORMER TANK SYSTEM
A - OIL PUMP HOUSE - 1951 SANBORN MAP
B - BULK OIL TANK - 1951 SANBORN MAP
C - OIL WHAREHOUSE - 1951 SANBORN MAP
D - BULK OIL TANK - 1972 AERIAL PHOTO
NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER
SCALE: 1 INCH = 20 FEET
0
20
● - PIESA SOIL SAMPLE LOCATION (1995)
- ABANDONED MONITORING WELL LOCATION - HUNT WESSON
X - SOIL BORING LOCATION
WATER LINE
SANITARY SEWER LINE
STORM SEWER LINE
NATURAL GAS LINE
BURIED ELECTRICAL LINE
TELEPHONE/FIBER OPTIC LINE
PROPERTY BOUNDARIES (APPROXIMATE)
OVERHEAD UTILITIES
A'
A
FLOW
RED CEDAR RIVER
EARTHEN BERM
EARTHEN BERM
EARTHEN BERM
PAL
ES
C
B
B
B
B
D
D VAN
A
STORAGE BUILDING
503 1ST AVENUE W
ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN GROUNDWATER EXCEEDING THE NR140 ENFORCEMENT STANDARD (ES) AND/OR PREVENTIVE ACTION LIMIT (PAL)
G-17
G-9
G-18
G-2
B-3
G-11
G-4
G-13
G-10
B-2
G-14
G-6
G-3
SHED
GRAVEL
GRASS
CONCRETE
LOADING AREA
OVERHANG
B-1
G-1
G-5
G-2
MW-49
GRAVEL
G-16
G-15
G-7
GRASS
ES
PAL
ESTIMATED EXTENT OF UNSATURATED SOIL CONTAMINATION EXCEEDING THE NR720 GROUNDWATER RCL VALUES
1ST AVENUE W
G-8
MW-51
HUNT WESSON MGP COAL GAS PLANT - MENOMONIE
BRRTS# 02-17-000328
CONAGRA FOODS

B.3.a. GEOLOGIC CROSS -SECTION FIGURE(S) (A-A')

AMBERG OIL TANK FARM

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

MENOMONIE, WISCONSIN

DRAWN BY: MM

DATE: 6/21/2017

- ABANDONED MONITORING WELL LOCATION - HUNT WESSON
- SOIL BORING LOCATION
- GEOPROBE SOIL SAMPLING INTERVAL
- WATERTABLE (GEOPROBE PROJECT)
- WATERTABLE (HUNT WESSON ERP SITE)

- TAN TO GRAY VERY FINE TO COARSE GRAINED SAND WITH VARYING AMOUNTS OF GRAVEL
- GRAY TO TAN TO RED WEATHERED SANDSTONE
- SANDSTONE

HORIZONTAL SCALE: 1 INCH = 20 FEET (0 – 20)

VERTICAL SCALE: 1 INCH = 5 FEET (0 – 5)

NOTES:
- 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).
- ONLY ANALYTICAL RSULTS EXCEEDING THE LIMIT OF DETECTION HAVE BEEN DOCUMENTED ON THIS MAP. PLEASE SEE THE DATA TABLES AND/OR LABORATORY REPORTS FOR COMPLETE RESULTS.
- SOIL AND GROUNDWATER SAMPLE DATA IS BASED ON LABORATORY RESULTS FROM SAMPLES COLLECTED DURING THE GEOPROBE PROJECT - (5/15/2017)

PID=PHOTOIONIZATION DETECTOR
PVOC=PETROLEUM VOLATILE ORGANIC COMPOUNDS
PAH=POLYAROMATIC HYDROCARBONS
B=BENZENE
E=ETHYLBENZENE
N=NAPHTHALENE
T=TOLUENE
1,2,4-TMB=1,2,4-TRIMETHYLBENZENE
1,3,5-TMB=1,3,5-TRIMETHYLBENZENE
TMB=TRIMETHYLBENZENES
X=XYLENE
sec-B=sec-BUTYLBENZENE
n-B=n-BUTHYLBENZENE
I=ISOPROPYLTOUENE
p-I=p-ISOPROPYLTOUENE
n-P=n-PROPYLBENZENE

AY=ACENAPHTHYLENE
A=ANTHRACENE
B(a)A=BENZO(a)ANTHRACENE
B(a)P=BENZO(a)PYRENE
B(b)F=BENZO(b)FLUORANTHENE
B(g,h,I)p=BENZO(g,h,I)PERLENE
B(k)F=BENZO(k)FLUORANTHENE
C=CHRYSENE
D(a,h)A=DIBENZO(a,h)ANTHRACENE
F=FLUORANTHENE
I(1,2,3-cd)P=INDENO(1,2,3-cd)PYRENE
1-M=1-METHYLNAPHTHALENE
2-M=2-METHYLNAPHTHALENE
P=PHENANTHRENE
PY=PYRENE
2-M=2-METHYLNAPHTHALENE

A

A'

ESTIMATED EXTENT ON UNSATURATED SOIL CONTAMINATION (BASED ON THE ALL-TIME LOW WATERTABLE) EXCEEDING THE NR720 GROUNDWATER RCL VALUES FOR LEAD ONLY

~802 FEET MSL
~800 FEET MSL
~798 FEET MSL
~796 FEET MSL
~794 FEET MSL
~792 FEET MSL
~790 FEET MSL
~788 FEET MSL
~786 FEET MSL
~784 FEET MSL
~782 FEET MSL
~780 FEET MSL
~778 FEET MSL
~776 FEET MSL

GRASS | MW-51 | GRASS | G-8 | 1ST AVENUE W | G-7 | GRAVEL | OVERHANG | G-1 | ON-SITE BUILDING | GRAVEL | G-6 | TALL GRASS & BRUSH | G-10 | BRUSH & TREES | G-11 | BRUSH & TREES | G-9 | BRUSH & TREES | EARTHEN BERM | G-17 | BRUSH & TREES

FORMER BULK OIL TANK

FORMER BULK OIL TANK

G-8-I (3.5 FEET)
PID=8.2
NOT SAMPLED

G-8-2 (8 FEET)
PID=3.6
NOT SAMPLED

G-8-3 (10 FEET)
PID=4.8
NOT SAMPLED

5/15/2017

6/29/2001
ALL-TIME HIGH WATERTABLE

4/1/2003
ALL-TIME LOW WATERTABLE

G-7-I (3.5 FEET)
PID=5.4
LEAD= 2.93
NO DETECT PVOC OR PAH

G-7-2 (8 FEET)
PID=4.7
NOT SAMPLED

G-7-3 (8.5 FEET)
PID=330
B= 0.48
E= 0.82
N= 4.6
1,2,4-TMB= 31
1,3,5-TMB= 14
X= 4.38

G-1-I (3.5 FEET)
PID=2.9
LEAD= 2.9
A= 0.141
B(a)A= 0.0164
B(a,h)P= 0.0159
2-M= 0.0164

G-1-2 (8 FEET)
PID=3.69
LEAD= 10.7
sec-B= 1.78
n-B= 10
E= 4
I= 1.03
n-I= 0.81
N= 12.6
n-P= 7
1,2,4-TMB= 72
1,3,5-TMB= 24
X= 38.2

G-1-3 (0 FEET)
PID=465
NOT SAMPLED

G-6-I (3.5 FEET)
PID=9.5
LEAD= 3.52
N= 0.094
T= 0.032
1,2,4-TMB= 0.0254
X= 0.102
AY= 0.072
A=0.0203
B(a)A= 0.038
B(a)P= 0.032
B(a,h)P= 0.049
B(g,h,I)P= 0.053
C= 0.053
D(a,h)A= 0.0137
F= 0.087
I(1,2,3-cd)P= 0.0298
1-M= 0.153
2-M= 0.203
P= 0.203
PY=0.06

G-6-2 (8 FEET)
PID=5.7
NOT SAMPLED

G-6-3 (8.5 FEET)
PID=21
E= 0.067
N= 7.7
1,2,4-TMB= 0.43
1,3,5-TMB= 0.91
X= 0.250

G-10-I (3.5 FEET)
PID=3.3
LEAD= 2.04
NO PVOC OR PAH

G-10-2 (8 FEET)
PID=6.20
NO DETECT PVOC OR N

G-10-3 (10 FEET)
PID=5
NOT SAMPLED

G-11-I
NO RECOVERY

G-11-2
NO RECOVERY

G-11-3 (0 FEET)
PID=14
N= 6
T= 0.16
1,2,4-TMB= 0.52
1,3,5-TMB= 0.71
X= 0.561

G-9-I (3.5 FEET)
PID=5.9
LEAD= 4.77
E= 0.0254
N= 0.06
AY= 0.0291
A= 0.0164
B(a)A= 0.034
B(a)P= 0.038
B(b)F= 0.058
B(g,h,I)P= 0.094
B(k)F= 0.0191
C= 0.04
D(a,h)A= 0.0163
F= 0.0293
I(1,2,3-cd)P= 0.047
1-M= 0.197
2-M= 0.206
P= 0.078
PY= 0.048

G-9-2 (8 FEET)
PID=5.3
NOT SAMPLED

G-9-3 (8.5 FEET)
PID=129
N= 3.2
T= 0.13
1,2,4-TMB= 2.15
1,3,5-TMB= 1.61
X= 0.665

G-17-I (3.5 FEET)
PID=4.5
NOT SAMPLED

G-17-2 (8 FEET)
PID=1.8
NOT SAMPLED

G-17-3 (8.5 FEET)
PID=49.3
E= 0.037
N= 1.39
T= 0.047
1,2,4-TMB= 0.54
1,3,5-TMB= 0.33
X= 0.232

ESTIMATED EXTENT ON UNSATURATED SOIL CONTAMINATION (BASED ON THE ALL-TIME LOW WATERTABLE) EXCEEDING THE NR720 GROUNDWATER RCL VALUES

ESTIMATED EXTENT ON PETROLEUM CONTAMINATION IN GROUNDWATER EXCEEDING THE NR140 ENFOCEMENT STANDARDS AND/OR PREVENTIVE ACTION LIMITS

RED CEDAR RIVER

G-8-W
TMB= L92-2.83

G-7-W
E= 48
N= 40
TMB= 113
X= 324

G-1-W
B= 0.31
E= 141
N= 450
T= 39
TMB= 1313
X= 1290

G-6-W
T= 2.96

G-10-W
NO DETECTS PVOC OR N

G-11-W
NO DETECT PVOC OR N

G-9-W
E= 216
N= 156
TMB= 191
X= 18.57

NOT SAMPLED

B.3.b. GROUNDWATER ISOCONCENTRATION

AMBERG OIL TANK FARM

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

MENOMONIE, WISCONSIN
DRAWN BY: ED
DATE: 01/24/2017

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

SCALE:
1 INCH = 30 FEET
0 15 30

- ● - PIESA SOIL SAMPLE LOCATION (1995)
- ⊕ - ABANDONED MONITORING WELL LOCATION - HUNT WESSON
- ⊕ - MONITORING WELL LOCATION
- ✕ - SOIL BORING LOCATION

WATER LINE
SANITARY SEWER LINE
STORM SEWER LINE
NATURAL GAS LINE
BURIED ELECTRICAL LINE
TELEPHONE/FIBER OPTIC LINE
PROPERTY BOUNDARIES (APPROXIMATE)
OVERHEAD UTILITIES

KEY TO FORMER TANK SYSTEM
A - OIL PUMP HOUSE - 1951 SANBORN MAP
B - BULK OIL TANK - 1951 SANBORN MAP
C - OIL WHAREHOUSE - 1951 SANBORN MAP
D - BULK OIL TANK - 1972 AERIAL PHOTO

RED CEDAR RIVER
FLOW
RIVER ROAD
CITY OF MENOMONIE
NO ADDRESS
CONAGRA FOODS
IST AVENUE W
STORAGE BUILDING
503 IST AVENUE W
FORMER COAL STORAGE AREA
EARTHEN BERM
EARTHEN BERM
EARTHEN BERM
GRAVEL
GRAVEL
GRAVEL
CONCRETE
GRASS
GRASS
SHED
LOADING AREA
OVERHANG
PAL
ES
ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN GROUNDWATER EXCEEDING THE NR140 ENFORCEMENT STANDARD (ES) AND/OR PREVENTIVE ACTION LIMIT (PAL)
MW-50
MW-49
MW-51
G-1
G-2
G-3
G-4
G-5
G-6
G-7
G-8
G-9
G-10
G-11
G-13
G-14
G-15
G-16
G-17
G-18
B-1
B-2
B-3
A
B
C
D

HUNT WESSON MGP COAL GAS PLANT - MENOMONIE
BRRTS# 02-17-000328

Attachment C/Documentation of Remedial Action

C.1 Site Investigation Documentation

All site investigation activities are documented in the Site Investigation Report which is being submitted concurrently with this Case Closure Request.

C.2 Investigative Waste – No Investigative waste was generated as part of this site investigation.

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.goc/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

Attachment D/Maintenance Plan(s)

D.1 Description of Maintenance Actions – No maintenance plan is being required.

D.2 Location map(s) – No maintenance plan is being required.

D.3 Photographs – No maintenance plan is being required.

D.4 Inspection log – No maintenance plan is being required.

Attachment E/Monitoring Well Information

Monitoring wells were not installed as part of this site investigation.

Attachment F/Source Legal Documents

F.1 Deed

F.2 Certified Survey Map

F.3 Verification of Zoning

F.4 Signed Statement – Please note: client would not sign at this time.

UNOFFICIAL COPY

Lot 25 Blk. C Riverside Drive Ass't Plat being Pt. SW SW 26-28-13 daf etc
Pt. Lot 2 27-28-13 City

DOCUMENT NO.

401523

STATE BAR OF WISCONSIN FORM 1—1982
WARRANTY DEED

THIS SPACE RESERVED FOR RECORDING DATA

VOL 493 records page 282

F.1 Deed

This Deed, made between Morris A. Brumberg and Fredric S. Bushendorf a/k/a Fredric Bushendorf, as tenants in common, Grantor, and Century Corporation, a duly organized and existing Wisconsin corporation, Grantee,

Witnesseth, That the said Grantor, for a valuable consideration

conveys to Grantee the following described real estate in Dunn County, State of Wisconsin:

See attached Schedule "A".

REC'D March 5, 1993 at 10:35 A.M.
RECORDED: VOL 493 RECORDS PAGE(S) 282-283
James M. Mrdutt
JAMES M. MRDUTT REG. OF DEEDS, DUNN, CO. WI
12.00
RDL $1.50 TF

RETURN TO
Bakke Norman
New Richmond - Jane Erickson

Tax Parcel No:

TRANSFER
$1.50
FEE

This is not homestead property.
(is) (is not)

Together with all and singular the hereditaments and appurtenances thereunto belonging;
And Grantor warrants that the title is good, indefeasible in fee simple and free and clear of encumbrances except municipal zoning ordinances and easements of record.

and will warrant and defend the same.

Dated this 3rd day of March, 19 93

Fredric S. Bushendorf (SEAL)
* Fredric S. Bushendorf a/k/a Fredric Bushendorf (SEAL)
*

X Morris A Brumberg (SEAL)
* Morris A. Brumberg (SEAL)
*

AUTHENTICATION

Signature(s) of Fredric S. Bushendorf a/k/a Fredric Bushendorf

authenticated this 3rd day of March, 19 93

* G. E. Norman
TITLE: MEMBER STATE BAR OF WISCONSIN

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

THIS INSTRUMENT WAS DRAFTED BY
BAKKE NORMAN, S.C.
New Richmond, WI 54017
(Signatures may be authenticated or acknowledged. Both are not necessary.)

ACKNOWLEDGMENT

STATE OF ~~WISCONSIN~~ TEXAS } ss.
Hidalgo County.

Personally came before me this 19th day of February, 19 93 the above named Morris A. Brumberg

to me known to be the person who executed the foregoing instrument and acknowledge the same.

XX Elaine Cowgill

* ELAINE COWGILL Notary Public, Hidalgo County, XXXTX
My Commission is permanent. (If not, state expiration date: ~~May 10, 1995~~ My Exp. JUNE 16, 1995, 19 95)

*Names of persons signing in any capacity should be typed or printed below their signatures.

SCHEDULE "A"

Parcel 1: All that part of Government Lot Two (2) in Section Twenty-seven (27), Township Twenty-eight (28) North Range Thirteen (13) West, CITY OF MENOMONIE, Dunn County, Wisconsin, lying North of the North line of First Avenue, (Formerly Walnut Street), of Menomonie, Dunn County, Wisconsin, and North of said North line extended westerly, and East and South of the Red Cedar River, excepting the East 68 feet thereof and also Excepting a strip of land about 33 links wide along the Southeast bank of said Red Cedar River, said strip of land being more fully described in an affidavit of survey by W.A. Harding dated April 27, 1937 and recorded April 30, 1937, in Volume 23 of Miscellaneous on page 330, Dunn County records.

Parcel 2: That part of Lots 3 and 25, Block C, Riverside Drive Assessment Plat, CITY OF MENOMONIE, Dunn County Wisconsin, being a part of the Southwest Quarter of the Southwest Quarter of Section Twenty-six (26), Township Twenty-eight (28), Range Thirteen (13) West, described as follows:
Commencing at a point on the North line of the Southwest Quarter of the Southwest Quarter of said Section 26 (said North line is also the centerline of Old Highway "29"), 268.5 feet East of the Northwest corner of said forty, said point being on the West line of the railroad right of way as described in Vol. 20 Deeds, page 631 and is also 131.6 feet West of the centerline of the main track of said railroad; thence South 8°50' East 508.7 feet along the West edge of the railroad right of way (said line is also 130 feet distant from the main track of said railroad as measured at right angles thereto) to the Southwest corner of said railroad right of way, said point being also the Southwest corner of that certain parcel of land conveyed by Chicago, Saint Paul, Minneapolis and Omaha Railway Company to Menomonie Farmers Union Cooperative by Quit Claim Deed dated August 8, 1966 and recorded in the Register of Deeds Office for Dunn County, Wisconsin, in Vol. 176 of deeds page 415, and being the point of beginning of the parcel of land herein described; thence North 81°10' East along the South line of said Railroad right of way, a distance of 200 feet; thence South 8°50' East 217.8 feet; thence South 81°10' West 200 feet; thence North 8°50' West 217.8 feet to the place of beginning. County of Dunn, State of Wisconsin.

Document Number	**NOTICE OF LIEN** Wis. Stats. §292.81(3) Title of Document

8069648
Tx:4050842

633476

DUNN COUNTY, WI
REGISTER OF DEEDS
HEATHER M. KUHN

RECORDED ON
02/08/2019 10:51 AM

REC FEE: 30.00
PAGES: 1

As provided by Wis. Stats. ch. 292 and Wis. Admin. Code Ch NR 700, the Department of Natural Resources (department) has incurred the cost for reviewing the case closure request at the following property owned by the Century Corporation and located in Dunn County.

All that part of Government Lot Two (2) in Section Twenty-seven (27), Township Twenty-eight (28) North Range Thirteen (13) West, CITY OF MENOMONIE, Dunn County, Wisconsin, lying North of the North line of First Avenue, (Formerly Walnut Street), of Menomonie, Dunn County, Wisconsin, and North of said North line extended westerly, and East and South of the Red Cedar River, excepting the East 68 feat thereof and also Excepting a strip of land about 33 links wide along the Southeast bank of said Red Cedar River, said strip of land being more fully described in an affidavit of survey by W.A. Harding dated April 27, 1937 and recorded April 30, 1937, in Volume 23 of Miscellaneous on page 330, Dunn County records.

Record this record with the Register of Deeds.
Name and return address:
Jenna Soyer
Fiscal & IT Section Chief
Remediation and Redevelopment Program
PO Box 7921
Madison WI 53707-7921
Phone (608) 267-7562

Parcel # 1725122813270020001

This document was drafted & approved by:
Department of Natural Resources
PO Box 7921
Madison WI 53707-7921

The case closure request review costs ($1,700) incurred by the department constitutes a superior lien on the property as described in Wis. Stats. § 292.81(3). The property remains subject to this superior lien until the case closure request review costs are paid in full to the department. No Interest is recoverable on this superior lien.

The department makes and files this claim for the interest held by the Owner(s) in this property under Wis. Stats. § 292.81(3), Stats. The department certifies that to the best of its knowledge and belief, all information contained in this Notice of Lien is correct, and this superior lien represents a legal encumbrance upon the property. Based on the above information, the department claims a superior lien on all the interest, which the Owner(s) have in the above-described property.

Department of Natural Resources
By:

Jenna Soyer, Fiscal & IT Section Chief
Remediation and Redevelopment Program

AUTHENTICATION OF ACKNOWLEDGMENT

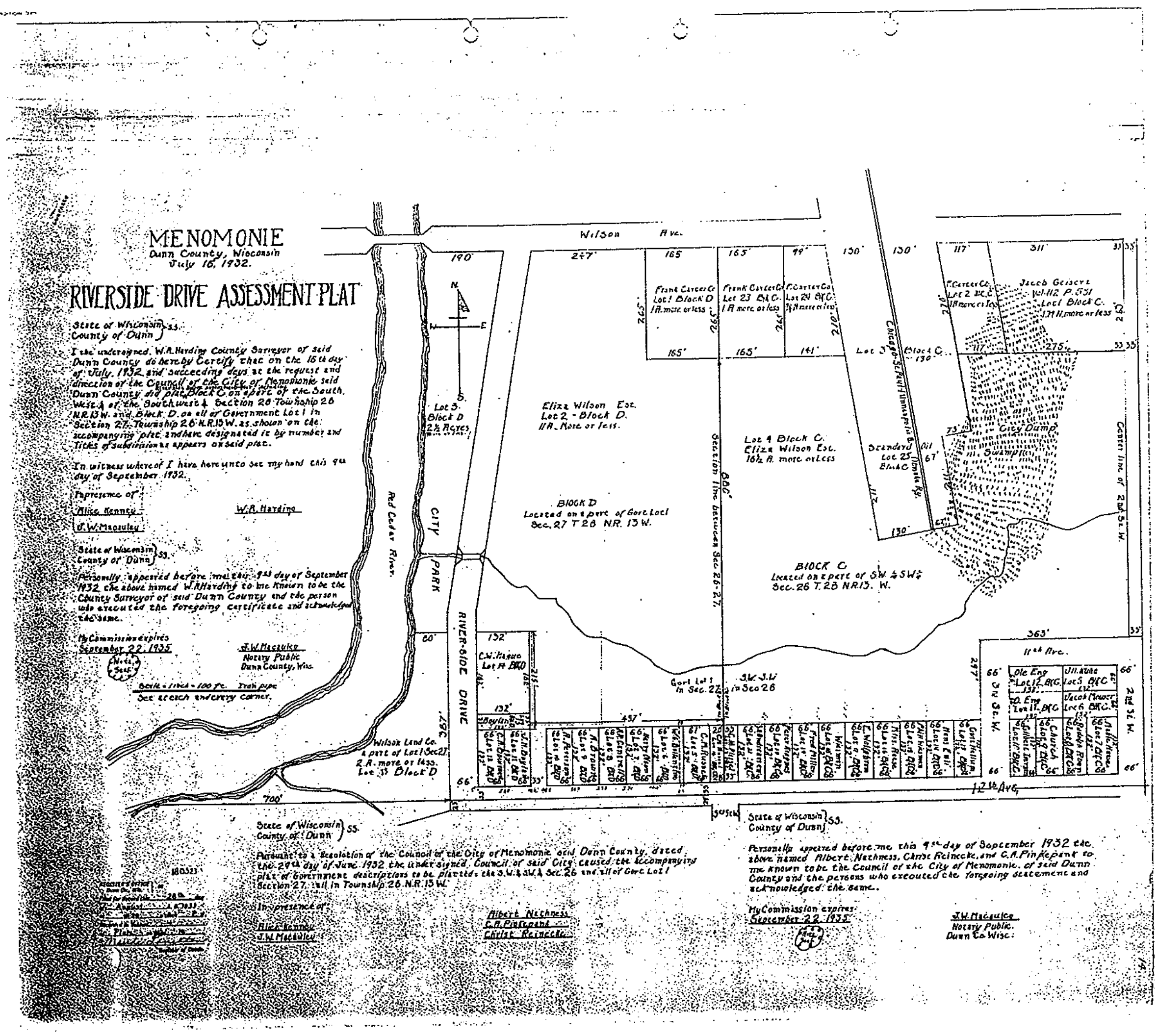
The above named person was sworn to before me this 29th day of January, 2019.

Adrian Herrera

Notary Public
State of Wisconsin, County of Dane
My Commission expires May 5, 2022

ADRIAN HERRERA
Notary Public
State of Wisconsin

F.2 Certified Survey Map



F.4. Signed Statement

WDNR BRRTS Case #: 02-17-152462

WDNR Site Name: Amberg Oil Tank Farm

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:

Estate of Steven E. Amberg
(print name/title)

X Jessica Amberg (POA) 11/21/18
(signature) (date)

Note: To the best of my knowledge, the legal description of the property is correct. To the best of my knowledge, the property was owned by Steven E. Amberg, who was the sole owner of Century Corporation. At the time of his death, Century Corporation was no longer in existence, and to the best of my knowledge Steven E. Amberg was the owner of the property.

Attachment G/Notification to Owners of Affected Properties

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.

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: Estate of Steven Amberg

Contact Person Last Name	First	MI	Phone Number (include area code)

Address	City	State	ZIP Code

E-mail

Name of Party Receiving Notification:

Business Name, if applicable: City of Menomonie

Title	Last Name	First	MI	Phone Number (include area code)
Mr.	Bide	Randy		(715) 232-2207

Address	City	State	ZIP Code
800 Wilson Avenue	Menomonie	WI	54751

Site Name and Source Property Information:

Site (Activity) Name: Amberg Oil Tank Farm (former)

Address	City	State	ZIP Code
511 1st Avenue	Menomonie	WI	54751

DNR ID # (BRRTS#)	(DATCP) ID #
02-17-152462	

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	First	MI	Phone Number (include area code)
Powell	Jason		(608) 781-8879

Address	City	State	ZIP Code
709 Gillette Street, Suite 3	La Crosse	WI	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	City	State	ZIP Code
890 Spruce St.	Baldwin	WI	54002

Contact Person Last Name	First	MI	Phone Number (include area code)
Collins	Patrick		(715) 684-2914

E-mail (Firstname.Lastname@wisconsin.gov): patrick.collins@wisconsin.gov

Notification of Continuing Obligations
and Residual Contamination
Form 4400-286 (9/15)

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

KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

800 Wilson Avenue
Menomonie, WI, 54751

Dear Mr. Eide:

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 city of Menomonie may become responsible. I investigated a release of: petroleum products on 511 1st Avenue, Menomonie, WI, 54751 that has shown that contamination has migrated into the right-of-way for which city of Menomonie 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 DNRcontact: 890 Spruce St., Baldwin, WI, 54002, or at patrick.collins@wisconsin.gov.

Residual Contamination:

Groundwater Contamination:
Groundwater contamination originated at the property located at: 511 1st Avenue, Menomonie, WI, 54751 .

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

Soil Contamination:
Soil contamination remains at:
The area of the former loading rack
The remaining contaminants include :
Benzene, Naphthalene, 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.
Removal of the AST's and associated piping from the subject property.

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:

Residual Soil Contamination:
If soil is excavated from the areas with residual contamination, the right-of-way holder 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 s. NR 718, Wis. Adm. Code, with prior Department approval.

The right-of-way holder needs 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 from ingestion, inhalation or dermal contact.

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

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
jasonp@metcohq.com

X Estate of Steven Ornberg — Jessica Ornberg (POA)

Signature of responsible party/environmental consultant for the responsible party	Date Signed
	2/8/18

Attachments
Contact Information
Legal Description for each Parcel:

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.

1.

City of Menomonie
Randy Eide
800 Wilson Avenue
Menomonie, WI 54751

9590 9403 0958 5223 6296 37

2. Article Number (Transfer from service label)
7015 1660 0000 4343 2831

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
x Jayme Schindler ☐ Agent ☒ Addressee

B. Received by (Printed Name) Jayme Schindler C. Date of Delivery 1/26/18

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
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
Baldwin Service Center
890 Spruce Street
Baldwin, WI 54002

Scott Walker, Governor
Daniel L. Meyer, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

WISCONSIN
DEPT. OF NATURAL RESOURCES

January 4, 2019

City of Menomonie
Attn: Mr. Randy Eide
800 Wilson Ave.
Menomonie, WI 54751

SUBJECT: Notice of Closure Approval with Continuing Obligations for Rights-of-Way Holders for 511 1st Street, Menomonie, WI
Final Case Closure for Amberg Oil Tank Farm,
511 1st Street, Menomonie, WI
DNR BRRTS Activity #: 02-17-152462

Dear Mr. Eide:

The Department of Natural Resources (DNR) recently approved the completion of environmental work done at the Amberg Oil Tank farm site. This letter describes how that approval applies to the right-of-way (ROW) at 511 1st Street. 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 July 26, 2018, the City of Menomonie received information from the estate of Steven Amberg about the petroleum contamination in the ROW from the Amberg Oil Tank Farm site, located at 511 1st Street, 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. § NR 700 series.

Residual Groundwater Contamination (chs. NR 140 and 812, Wis. Adm. Code)
Groundwater contamination greater than enforcement standards is present both on this contaminated property and off this contaminated property, as shown on the attached map; Groundwater Isoconcentration, B.3.b, 1/24/2017. If you intend to construct a new well, or reconstruct an existing well, you'll need prior DNR approval. This continuing obligation also applies to the ROW holders for 511 1st Ave., Menomonie

Residual Soil Contamination (ch. NR 718, or ch. 289, Stats.; chs. 500 to 536, Wis. Adm. Code)
Soil contamination remains from the ROW near the loading rack, north including the area where the above ground storage tanks were located, as indicated on the attached map, Residual Soil Contamination, B.2.b, 1/24/2017. If soil in the specific locations described above is excavated in the future, the property owner at the time of excavation must sample and analyze the excavated soil to

determine if contamination remains. If sampling confirms that contamination is present, the property owner at the time of excavation will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. Contaminated soil may be managed in accordance with ch. NR 718, Wis. Adm. Code, with prior DNR approval. This continuing obligation also applies to the ROW holders for 503 1st Ave. West, Menomonie, WI.

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.

Send all written notifications in accordance with these requirements to Baldwin Service Center, 890 Spruce St., Baldwin, WI, 54022, to the attention of Patrick Collins.

Additional Information

Additional information about this case is available at the DNR's Bureau for Remediation and Redevelopment Tracking System (BRRTS) on the Web (BOTW) at dnr.wi.gov and search "BOTW". Enter 02-17-152462 in the Activity Number field in the initial screen, then click on Search. Scroll down and click on the CO 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".

Please contact Patrick Collins, the DNR project manager, at 715 684-2914 ext.117 or Patrick.Collins@wisconsin.gov with any questions or concerns.

Sincerely,

Dave Rozeboom
West Central Region Team Supervisor
Remediation & Redevelopment Program

Attachments:

- Groundwater Isoconcentration, B.3.b, 1/24/2017
- Remaining Soil Contamination, B.2.b, 1/24/2017

cc: Jessica Amberg,
Ron Anderson, METCO