



March 8, 2019

Mr. John Sigafus
P.O. Box 187
Browntown, WI 53522

KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

SUBJECT: Final Case Closure with Continuing Obligations
Browntown Oil, 303 N. Mill Street, Browntown, Green County, WI
DNR BRRTS Activity #: 03-23-001503

Dear Mr. Sigafus:

The Department of Natural Resources (DNR) considers Browntown Oil closed, with continuing obligations. No further investigation or remediation is required at this time. However, you, future property owners, and occupants of the property must comply with the continuing obligations as explained in the conditions of closure in this letter. Please read over this letter closely to ensure that you comply with all conditions and other on-going requirements. Provide this letter and any attachments listed at the end of this letter to anyone who purchases, rents or leases this property from you.

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 South Central Region (SCR) Closure Committee reviewed the request for closure on October 4, 2018. The DNR Closure Committee reviewed this environmental remediation case for compliance with state laws and standards to maintain consistency in the closure of these cases. A request for remaining actions needed was issued by the DNR on October 15, 2018, and documentation that the conditions in that letter were met was received on January 8, 2019.

This former gas station & automotive repair shop had soil and groundwater contaminated with petroleum volatile organic compounds (PVOCs) from a system of underground petroleum storage tanks. The tank system was removed in 1998 and no other remedial actions were taken to actively address contamination. A pavement and gravel cap will address any potential direct contact exposure to residual soil contamination at this site. The conditions of closure and continuing obligations required were based on the property being used for commercial purposes.

Continuing Obligations

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

- Residual soil contamination exists that must be properly managed should it be excavated or removed.
- An engineered cover must be maintained over contaminated soil and the DNR must be notified and approve any changes to this barrier.

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 online at dnr.wi.gov and search “RR-819”.

DNR Database

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

The DNR’s approval prior to well construction or reconstruction is required in accordance with 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 South Central Regional DNR office, at 3911 Fish Hatchery Road, Fitchburg, WI 53711. This letter and information that was submitted with your closure request application, including any maintenance plan and maps, can be found as a Portable Document Format (PDF) in BOTW.

Prohibited Activities

Certain activities are prohibited at closed sites because maintenance of a barrier is intended to prevent contact with any remaining contamination. When a barrier is required, the condition of closure requires notification of the DNR before making a change, in order to determine if further action is needed to maintain the protectiveness of the remedy employed. The following activities are prohibited on any portion of the property where a pavement and gravel cover is required, as shown on the **attached map** (*Figure D.2. Cap Maintenance Plan, 12/01/2014*), unless prior written approval has been obtained from the DNR:

- removal of the existing barrier or cover;
- replacement with another barrier or cover;
- excavating or grading of the land surface;
- filling on covered or paved areas;
- plowing for agricultural cultivation;
- construction or placement of a building or other structure;

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 and the attached maintenance plan are met. If these requirements are not followed, the DNR may take enforcement action under s. 292.11, Wis. Stats. to ensure compliance with the specified requirements, limitations or other conditions related to the property.

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

Department of Natural Resources
Attn: Remediation and Redevelopment Program Environmental Program Associate
3911 Fish Hatchery Road
Fitchburg, WI 53711

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

Soil contamination remains to the north of the building to the west of the building, as indicated on the **attached map** (*Figure B.2.b. Residual Soil Contamination, 07/15/2011*). If soil in the specific locations described above is excavated in the future, the property owner or right-of-way holder 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 or right-of-way holder at the time of excavation will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. Contaminated soil may be managed in accordance with ch. NR 718, Wis. Adm. Code, with prior DNR approval.

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

Cover or Barrier (s. 292.12 (2) (a), Wis. Stats., s. NR 726.15, s. NR 727.07 Wis. Adm. Code)

The pavement and gravel cover that exists in the location shown on the **attached map** (*Figure D.2. Cap Maintenance Plan, 12/01/2014*) shall be maintained in compliance with **the attached maintenance plan** in order to prevent direct contact with residual soil contamination that might otherwise pose a threat to human health.

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

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

The **attached maintenance plan and inspection log (DNR form 4400-305)** are to be kept up-to-date and on-site. Inspections shall be conducted annually, in accordance with the attached maintenance plan. Submit the inspection log to the DNR only upon request.

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 Project Manager to determine the method for salvaging the equipment.

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

In Closing

Please be aware that the case may be reopened pursuant to 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 Wendy Weihemuller at 608-275-3212, or at Wendy.Weihemuller@wisconsin.gov.

Sincerely,

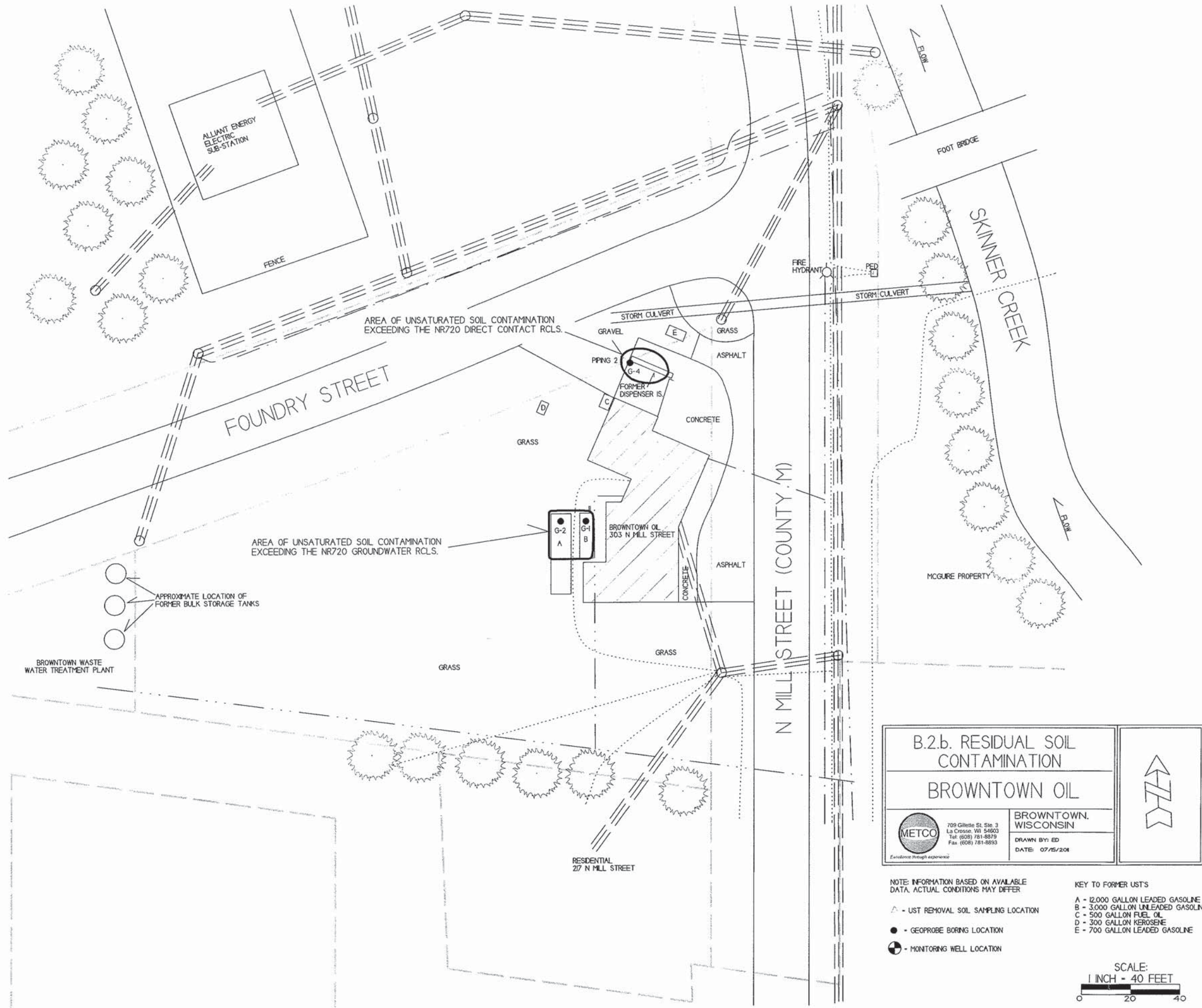


Steve L. Martin
South Central Region Team Supervisor
Remediation & Redevelopment Program

Attachments:

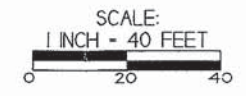
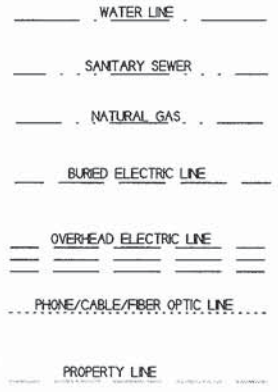
- Residual Soil Contamination, Attachment B.2.b., 07/15/2011
- Cap Maintenance Plan, Attachment D.2., 12/01/2014
- Description of Maintenance Action(s), Attachment D.1., 10/20/2015
- Inspection Log, DNR Form 4400-305

cc: METCO, Attn: Ron Anderson, 709 Gillette St., Suite 3, La Crosse, WI 54603



B.2.b. RESIDUAL SOIL CONTAMINATION BROWNTOWN OIL	
	BROWNTOWN, WISCONSIN <small>709 Gillette St. Ste. 3 La Crosse, WI 54603 Tel: (608) 781-8879 Fax: (608) 781-8893</small>
<small>Drawn By: ED Date: 07/15/201</small>	

- NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER.
- ▲ - UST REMOVAL SOIL SAMPLING LOCATION
 - - GEOPROBE BORING LOCATION
 - ⊕ - MONITORING WELL LOCATION
- KEY TO FORMER USTS
- A - 12,000 GALLON LEADED GASOLINE
 - B - 3,000 GALLON UNLEADED GASOLINE
 - C - 500 GALLON FUEL OIL
 - D - 300 GALLON KEROSENE
 - E - 700 GALLON LEADED GASOLINE



D.1 Description of Maintenance Action(s)

CAP MAINTENANCE PLAN

October 20, 2015

Property Located at:
303 N Mill Street,
Browntown, WI

WDNR BRRTS# 03-23-001503

TAX KEY# 2311001160000

Introduction

This document is the Maintenance Plan for a concrete/gravel cap at the above-referenced property in accordance with the requirements of s. NR 724.13(2), Wisconsin Administrative Code. The maintenance activities relate to the existing cap occupying the area over the contaminated soil on-site.

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

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

Description of Contamination

Soil contaminated by Petroleum Volatile Organic Compounds (PVOCs) is located at a depth of 0-3 feet below ground surface in the area of the former pump island. The extent of the soil contamination is shown on Attachment D.2.

Description of the Cap to be maintained

The Cap consists of concrete (approximately 6 inches thick) and gravel in the area of the former pump island on the northern edge of the on-site building, as shown on Attachment D.2.

Cover Barrier Purpose

The concrete/gravel cap over the contaminated soil serves as a barrier to minimize exposure to soil exceeding NR720 Direct Contact standards. Based on the current and future use of the property, the barrier should function as intended unless disturbed.

Annual Inspection

The concrete/gravel cap overlying the contaminated soil and as depicted in Attachment D.2 will be inspected once a year, normally in the spring after all snow and ice is gone, for deterioration, cracks and other potential problems that can cause exposure to underlying soils through the concrete and gravel. The inspections will be performed by the property owner or their designated representative. The inspections will be performed to evaluate damage due to settling, exposure to the weather, wear from traffic, increasing age and other factors. Any area where soils have become or are likely to become exposed and where infiltration from the surface will not be effectively minimized will be documented. A log of the inspections and any repairs will be maintained by the property owner and is included as Form 4400-305 Continuing Obligations and Maintenance Log. The log will include recommendations for necessary repair of any areas where underlying soils are exposed and where infiltration from the surface will not be effectively minimized. Once repairs are completed, they will be documented in the inspection log. A copy of the inspection log will be kept at the address of the property owner and available for submittal or inspection by Wisconsin Department of Natural Resources ("WDNR") representatives upon their request.

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

Maintenance Activities

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

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

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

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

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

Amendment or Withdrawal of Maintenance Plan

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

Contact Information

October 2015

Current Site Owner and Operator:

John Sigafus
P.O. Box 187
Browntown, WI 53522
(608) 966-3312

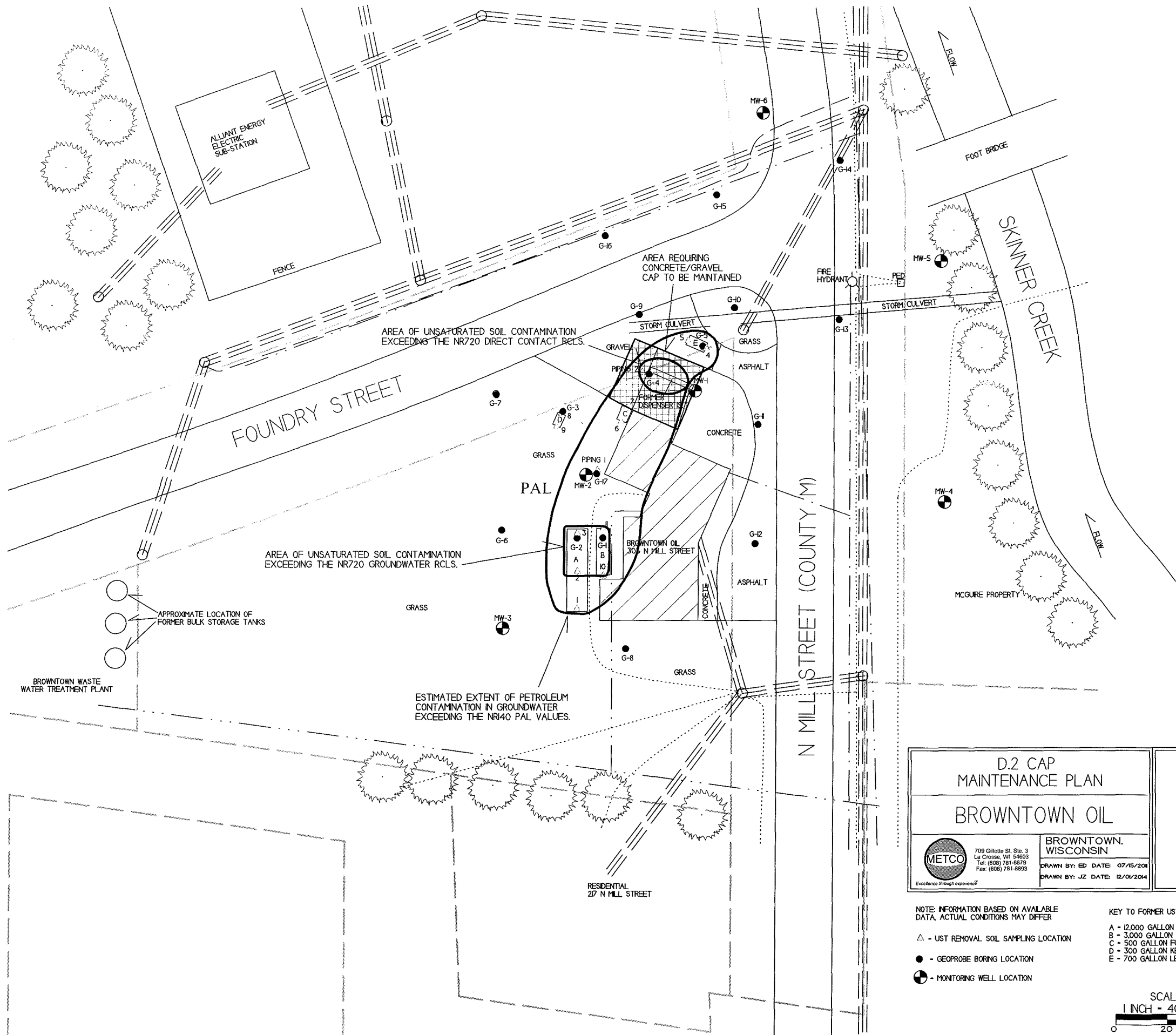
Signature: _____
(DNR may request signature of affected property owners, on a case-by-case basis)

Consultant:

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

WDNR:

Will Meyers
3911 Fish Hatchery Road
Fitchburg, WI 53711
(608) 273-5613



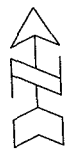
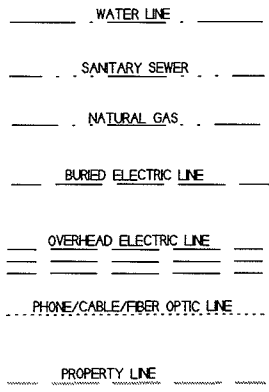
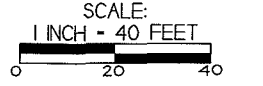
D.2 CAP MAINTENANCE PLAN	
BROWNTOWN OIL	
 <small>709 Gillette St. Ste. 3 La Crosse, WI 54603 Tel: (608) 781-8879 Fax: (608) 781-8893</small>	BROWNTOWN, WISCONSIN
	<small>DRAWN BY: ED DATE: 07/15/2014 DRAWN BY: JZ DATE: 12/01/2014</small>

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

- ▲ - UST REMOVAL SOIL SAMPLING LOCATION
- - GEOPROBE BORING LOCATION
- ⊙ - MONITORING WELL LOCATION

KEY TO FORMER UST'S

- A - 12,000 GALLON LEADED GASOLINE
- B - 3,000 GALLON UNLEADED GASOLINE
- C - 500 GALLON FUEL OIL
- D - 300 GALLON KEROSENE
- E - 700 GALLON LEADED GASOLINE





11 3 Photographs



10 11. 2011 11 10

D. J. Photographs



10. 11. 2011 11 12

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

Activity (Site) Name Browntown Oil	BRRTS No. 03-23-001503
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Inspections are required to be conducted (see closure approval letter):

annually
 semi-annually
 other – specify _____

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

will.myers@wi.gov

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



October 15, 2018

Mr. John Sigafus
P.O. Box 187
Browntown, WI 53522

Subject: Remaining Actions Needed
Browntown Oil, 303. N. Mill Street, Browntown, Green County, Wisconsin
DNR BRRTS Activity # 03-23-001503

Dear Mr. Sigafus:

On October 8, 2018, the South Central Regional Closure Committee reviewed your request for closure of the case described above. The Regional Closure Committee reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. The following actions are needed to complete our review of your request. Upon completion of these actions, closure approval will be provided.

Remaining Actions Needed

Monitoring Well Abandonment

The monitoring wells and piezometers at the site must be properly abandoned in accordance with ch. NR 141, Wis. Adm. Code. Documentation of well abandonment for all wells must be submitted to Erin Niemisto on Form 3300-005, found at <http://dnr.wi.gov/topic/groundwater/forms.html>.

Documentation

When the well abandonments have been completed, submit the appropriate documentation forms within 90 days of the date of this letter, to verify their completion. At that point, your closure request can be approved, and your case can be closed.

GIS Registry

Your site will be listed on the DNR Remediation and Redevelopment Program's GIS Registry, to provide public notice of remaining contamination and continuing obligations. The continuing obligations will be specified in the final closure approval. Information that was submitted with your closure request application will be included on the Bureau for Remediation and Redevelopment Tracking System (BRRTS on the Web), at <http://dnr.wi.gov/topic/Brownfields/rasm.html>.

In Conclusion

We appreciate your efforts to restore the environment at this site. This remedial action project is nearing completion. I look forward to receiving the well abandonment forms so that we may issue a case closure letter.

If you have any questions regarding this letter, please contact the project manager, Erin Niemisto, at 608-275-3224, or by email at Erin.Niemisto@wisconsin.gov .

Sincerely,

A handwritten signature in black ink, appearing to read "SL Martin", with a long horizontal line extending to the right from the end of the signature.

Steven L. Martin
South Central Region Team Supervisor
Remediation & Redevelopment Program

cc: METCO, Attn: Ron Anderson, 709 Gillette St., Ste. 3, La Crosse, WI 54603

SUBMIT AS UNBOUND PACKAGE IN THE ORDER SHOWN

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

Site Information			
BRRTS No.	VPLE No.		
03-23-001503			
Parcel ID No.			
2311001160000			
FID No.	WTM Coordinates		
	X	Y	
	536892	234173	
BRRTS Activity (Site) Name	WTM Coordinates Represent:		
Browntown Oil	<input checked="" type="checkbox"/> Source Area <input type="checkbox"/> Parcel Center		
Site Address	City	State	ZIP Code
303 N. Mill Street	Browntown	WI	53522
Acres Ready For Use	0.5		

Responsible Party (RP) Name
John Sigafus
Company Name

Mailing Address	City	State	ZIP Code
P.O. Box 187	Browntown	WI	53522
Phone Number	Email		
(715) 501-8349			

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

- 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>. Check all fees that apply:

<input checked="" type="checkbox"/> \$1,050 Closure Fee	<input checked="" type="checkbox"/> \$300 Database Fee for Soil
<input type="checkbox"/> \$350 Database Fee for Groundwater or Monitoring Wells (Not Abandoned)	Total Amount of Payment \$ <u>\$1,350.00</u>
<input type="checkbox"/> Resubmittal, Fees Previously Paid	

- 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 subject property is located in the NW 1/4 of the NW 1/4 of Section 9, Township 1 N, Range 6 E, Village of Browntown, Green County, Wisconsin. The property consists of one tax parcel (PID #2311001160000), and is bound by Light Industrial properties on the south and west, by Foundry Street to the north and by N. Mill Street to the east.
- B. Prior and current site usage: Specifically describe the current and historic occupancy and types of use.
A gas station/auto repair shop has operated on the subject property since the 1940's. John Sigafus has owned the property since the late 1970's, and operated the gas station until 1989. The gas station's petroleum storage tank systems consisted of a 12,000-gallon leaded gasoline, a 3,000-gallon unleaded gasoline, a 700-gallon leaded gasoline, a 500-gallon fuel oil, and a 300-gallon kerosene UST. The UST systems were removed on December 8, 1998.
- C. Current zoning (e.g., industrial, commercial, residential) for the site and for neighboring properties, and how verified (Provide documentation in Attachment G).
The subject property is zoned as M-1 Light Industrial and the surrounding properties are also zoned M-1 Light Industrial.
- D. Describe how and when site contamination was discovered.
On December 8, 1998, during the UST removal, thirteen soil samples were collected for field and laboratory analysis (DRO, GRO, and/or PID). Petroleum contamination was confirmed in soil samples #3, which showed 1,900 ppm GRO in the area of the removed 12,000-gallon leaded gasoline UST. Elevated PID detects were recorded in soil samples #4 (700-gallon leaded gasoline), #11 (3,000-gallon unleaded gasoline), and Piping 1, however confirmation samples were not submitted for laboratory analysis from these locations.
- E. Describe the type(s) and source(s) or suspected source(s) of contamination.
The contamination source is the removed UST systems consisting of, a 12,000-gallon leaded gasoline, a 3,000-gallon unleaded gasoline, a 700-gallon leaded gasoline, a 500-gallon fuel oil, a 300-gallon kerosene UST and associated piping and dispensers.
- F. Other relevant site description information (or enter Not Applicable).
The WDNR GIS Registry has incorrectly identified the locations of sites in this area. The GIS Registry shows an ERP site (Green County Ag Service, 212 N. Mill Street, 02-23-001152) in the location of the Browntown Oil site, which is incorrect. The GIS Registry also shows the Browntown Oil site to be approximately 500 feet to the south of its actual location.
- G. List BRRTS activity/site name and number for BRRTS activities at this source property, including closed cases.
No other BRRTS activities exist at this source property.
- H. List BRRTS activity/site name(s) and number(s) for all properties immediately adjacent to (abutting) this source property.
No other BRRTS activities exist at any of the adjacent properties.

2. General Site Conditions

- A. Soil/Geology
- i. Describe soil type(s) and relevant physical properties, thickness of soil column across the site, vertical and lateral variations in soil types.
Unconsolidated materials on the subject property consist of black to brown to tan to green to gray to orange, fine to coarse grained sand to silty sand from surface to depths ranging up to 8.5 feet below ground surface (bgs).
 - ii. Describe the composition, location and lateral extent, and depth of fill or waste deposits on the site.
There are no known fill or waste deposits on the subject property.
 - iii. Describe the depth to bedrock, bedrock type, competency and whether or not it was encountered during the investigation.
At depths ranging from 6 feet to at least 13 feet bgs exists a tan to pink, fine to coarse grained sandstone.
 - 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 consists of grass to the south and west of the on site building and asphalt and concrete to the north and east of the on site building.
- 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.

Based on the data collected during the site investigation, depth to groundwater varies from 0.82 to 7.03 feet bgs, depending on well location and time of year. Free product was not encountered during this investigation.

Groundwater exists in the sandstone bedrock and also in the unconsolidated soil, which consist of mostly sand to silty sand.

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

The shallow groundwater flow direction is generally toward the northeast. Groundwater flow deeper in the aquifer is not known, as there were no piezometer wells installed as part of the site investigation.

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

On September 26, 2012, METCO conducted slug tests on monitoring wells MW-1, MW-2, and MW-5. The slug test data was evaluated using the curve fitting program "Hydro-Test for Windows" Produced by Dakota Environmental, Inc. Slug test data was evaluated using the Bouwer and Rice method. Hydrogeologic parameters were estimated as the following:

Monitoring Well MW-1

Hydraulic Conductivity = 0.00180 cm/sec
Transmissivity = 0.412 cm²/sec
Flow Velocity (V=KI/n) = 33.56 m/yr

Monitoring Well MW-2

Hydraulic Conductivity = 0.00326 cm/sec
Transmissivity = 0.836 cm²/sec
Flow Velocity (V=KI/n) = 60.66 m/yr

Monitoring Well MW-5

Hydraulic Conductivity = 0.00271 cm/sec
Transmissivity = 0.527 cm²/sec
Flow Velocity (V=KI/n) = 50.39 m/yr

Since the thickness of the unconfined aquifer was unknown, the bottoms of monitoring wells MW-1, -2, and -5 were assumed as the lower extent of the aquifer for calculation purposes.

- 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 Village of Browntown has one municipal water supply well, which supplies potable water within the village limits. The village municipal well exists approximately 4,000 feet to the southeast of the subject property. METCO is not aware of any private potable wells in the area.

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 December 8, 1998, Northern Environmental collected thirteen soil samples during the UST removal for field and laboratory analysis (DRO, GRO, and/or PID). (Site Investigation Report, September 2013)

On October 10-11, 2011, METCO completed seventeen geoprobe borings (G-1 thru G-17). Thirty-four soil samples and sixteen groundwater samples were collected for field and/or laboratory analysis. (Site Investigation Report, September 2013)

On June 4, 2012, METCO completed six soil borings and installed six monitoring wells (MW-1 thru MW-6). Fourteen soil samples were collected for field and/or laboratory analysis. Upon completion, the wells were properly developed. (Site Investigation Report, September 2013)

On September 26, 2012, METCO surveyed and collected groundwater samples for field and laboratory analysis from the six monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5 and MW-6). METCO also conducted slug tests on monitoring wells MW-1, MW-2, and MW-5. (Site Investigation Report, September 2013)

On March 20, 2013, METCO collected groundwater samples for field and laboratory analysis from the six monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5 and MW-6). (Site Investigation Report, September 2013)

On January 14, 2014, METCO collected groundwater samples for field and laboratory analysis from the six monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5 and MW-6). (Groundwater Monitoring Report, December 2014)

On April 14, 2014, METCO collected groundwater samples for field and laboratory analysis from the six monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5 and MW-6). (Groundwater Monitoring Report, December 2014)

On July 15, 2014, METCO collected groundwater samples for field and laboratory analysis from the six monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5 and MW-6). (Groundwater Monitoring Report, December 2014)

On October 15, 2014, METCO collected groundwater samples for field and laboratory analysis from the six monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5 and MW-6). (Groundwater Monitoring Report, December 2014)

- ii. Identify whether contamination extends beyond the source property boundary, and if so describe the media affected (e.g., soil, groundwater, vapors and/or sediment, etc.), and the vertical and horizontal extent of impacts.

The petroleum contamination in soil and groundwater does not currently extend beyond the source property boundary.

- 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.

The extent of residual soil contamination which exceeds the NR720 Groundwater RCL's, consists of one oval shaped area in the area of the former dispenser island approximately 19 feet long, 8 feet wide and extending up to 3 feet bgs and one rectangular shaped area in the area of the removed USTs west of the on site building approximately 19 feet long, 18 feet wide and extending up to 3 feet bgs.

The area of soil contamination does not appear to intersect any utility corridors and does not appear to have an impact any buildings, basements, sumps, etc.

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

Soil samples collected within the upper four feet of the soil column exceeding the NR720 RCL's that remain include:

G-1-1 (3 feet bgs) - Lead (39 ppm)

G-2-1 (3 feet bgs) - Lead (45 ppm)

G-4-1 (3 feet bgs) - Naphthalene (12.5 ppm), Trimethylbenzenes (106.2 ppm) and Xylene (11.09 ppm)

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

Residual Contaminant Levels (RCL's) were established in accordance with NR720.10 and NR720.12. Soil RCL's for the protection of the groundwater pathway and for non-industrial direct contact were taken from the RR programs RCL's spreadsheet.

C. Groundwater

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

A dissolved phase contaminant plume exceeding the NR140 PAL Groundwater Quality Standards has formed at the watertable in the area of the removed USTs west of the on site building and has migrated to the north. The plume is approximately 121 feet long and 26 feet wide.

The area of groundwater contamination does not appear to intersect any utility corridors and does not appear to have an impact any buildings, basements, sumps, etc.

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

Free product was never 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.

Soil contamination does not appear to extend underneath any buildings. Groundwater contamination appears to extend underneath the on site building, which has a slab on grade foundation. Although the groundwater under the building is shallow (1.81-5.5 feet bgs), Benzene levels are well below 1,000 ppb. The highest recorded Benzene level in groundwater in a geoprobe or monitoring well during the investigation was from G-2 (14.6 ppb). Based on the limited extent of unsaturated soil contamination, and the low level Benzene contamination in groundwater, vapor intrusion does not appear to be a risk at this time.

- 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 vapor samples were collected as part of the site investigation.

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.

No surface water or sediment samples were collected during this investigation. Although the nearest surface water is Skinner Creek, which exists approximately 100 feet east of the subject property, monitoring wells MW-4 and MW-5 are located just west of Skinner Creek. MW-4 has never had any detects for any contaminants of concern and MW-5 has only shown a PAL exceedance during one round (1.28 ppb Benzene) and had no detects during the most recent round of sampling. Based on this it is unlikely that Skinner Creek is at risk of contamination.

- 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 sediments were assessed as part of the site investigation.

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 activities occurred as part of the site investigation.

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

No immediate or interim activities occurred as part of the site investigation.

- 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 active remedial activities occurred as part of the site investigation.

- 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 alternatives were considered during the Green and Sustainable Remediation evaluation.

- 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.

The extent of residual soil contamination which exceeds the NR720 Groundwater RCL's, consists of one oval shaped area in the area of the former dispenser island approximately 19 feet long, 8 feet wide and extending up to 3 feet bgs and one rectangular shaped area in the area of the removed USTs west of the on site building approximately 19 feet long, 18 feet wide and extending up to 3 feet bgs.

A dissolved phase contaminant plume exceeding the NR140 PAL Groundwater Quality Standards has formed at the watertable in the area of the removed USTs west of the on site building and has migrated to the north. The plume is approximately 121 feet long and 26 feet wide.

The petroleum contamination in soil and groundwater does not currently extend beyond the source property boundary

- 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.
G-4-1 (3 feet bgs): Naphthalene
- 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.
The following soil samples currently exceed NR720 Groundwater RCL's:
G-1-1 (3 feet bgs): Lead
G-2-1 (3 feet bgs): Lead
G-4-1 (3 feet bgs): Naphthalene, Trimethylbenzenes and Xylene
- 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.
Residual soil contamination exceeding the NR720 Groundwater RCL's and groundwater contamination exceeding the NR140 ES and/or PAL can be addressed through 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).
Overall contaminant trends in groundwater appear to be decreasing. Since the overall contaminant trends appear to be decreasing, natural attenuation appears to be effective 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).
Any remaining exposure pathways will be addressed via natural attenuation.
- 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 was installed as part of the site investigation.
- 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.
One monitoring well currently show NR140 PAL exceedances:
MW-2: Benzene and Naphthalene
- 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 vapor samples were collected as part of the site investigation.
- 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 waters or sediments were assessed during the site investigation.

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

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

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

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

- 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.
- 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).
- 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.
- 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.
- 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.
- 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.
- Other:** This attachment should include: 1) any available tabulated natural attenuation data; 2) data tables pertaining to engineered remedial systems that document operational history, demonstrate system performance and effectiveness, and display emissions data; and (3) any other data tables relevant to case closure not otherwise noted above. If this section is not applicable, please explain the reasons why.

Maps, Figures and Photos (Attachment B)

Directions for Maps, Figures and Photos:

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

B.1. Location Maps

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

B.2. Soil Figures

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

B.3. Groundwater Figures

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

B.4. Vapor Maps and Other Media

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

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

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

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

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

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

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

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

Monitoring Well Information (Attachment E)

Directions for Monitoring Well Information:

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

Select One:

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

Source Legal Documents (Attachment F)

Directions for Source Legal Documents:

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

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

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

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

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

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

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

- **Deed:** The most recent deed with legal descriptions clearly listed for all affected properties.
Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.
- **Certified Survey Map:** A copy of the certified survey map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map. In cases where the certified survey map or recorded plat map are not legible or are unavailable, a copy of a parcel map from a county land information office may be substituted. A copy of a parcel map from a county land information office shall be legible, and the parcels identified in the legal description shall be clearly identified and labeled with the applicable parcel identification number.
- **Verification of Zoning:** Documentation (e.g., official zoning map or letter from municipality) of the property's or properties' current zoning status.
- **Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes the attached legal description(s) accurately describe(s) the correct contaminated property or properties.

Signatures and Findings for Closure Determination

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

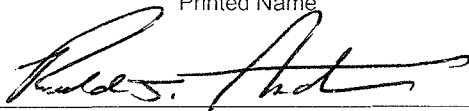
I Ronald J. Anderson hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this case closure request is correct and the document was prepared by me or prepared by me or prepared 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

Senior Hydrogeologist/Project Manager

Printed Name

Title





Signature

Date

Attachment A/Data Tables

A.1 Groundwater Analytical Table(s)

A.2 Soil Analytical Results Table(s)

A.3 Residual Soil Contamination Table(s)

A.4 Vapor Analytical Table – No vapor samples were assessed as part of the site investigation.

A.5 Other Media of Concern (e.g., sediment or surface water) – No surface waters or sediments were assessed as part of the site investigation.

A.6 Water Level Elevations

A.7 Other – Natural Attenuation data, Free Product Recovery

A.1 Groundwater Analytical Table
 Browntown Oil BRRTS# 03-23-001503

Well MW-1

PVC Elevation = 784.49 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
09/26/12	778.99	5.50	<0.7	<0.74	16.7	<0.8	17.6	17	124.6	129
03/20/13	781.12	3.37	<0.7	3.2	17.5	<0.37	18.4	17.3	116.4	<2.41
01/14/14	779.84	4.65	NS	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
04/17/14	781.29	3.20	NS	<0.27	<0.82	<0.37	<1.2	<0.8	1.29-2.15	<2.41
07/15/14	780.71	3.78	NS	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
10/15/14	781.87	2.62	NS	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
ENFORCEMENT STANDARD ES = Bold			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured

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

Well MW-2

PVC Elevation = 784.44 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
09/26/12	779.82	4.62	<0.7	1.16	33	<0.8	16.1	3.6	176	63.4
03/20/13	782.63	1.81	20.8	1.52	1.79	<0.37	141	<0.8	60.3	56
01/14/14	781.27	3.17	NS	1.14	<0.82	<0.37	3.3	<0.8	31.6	24.5
04/17/14	782.87	1.57	NS	0.84	0.97	<0.37	2.98	<0.8	29.4	16.8
07/15/14	782.04	2.40	<0.7	1.88	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
10/15/14	783.61	0.83	<0.7	0.72	3.5	<0.37	12.2	<0.8	90.9	65.1
ENFORCEMENT STANDARD ES = Bold			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured

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

Well MW-3

PVC Elevation = 785.62 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
09/26/12	780.21	5.41	<0.7	<0.5	<0.78	<0.8	<2.1	<0.53	<1.54	<1.9
03/20/13	783.14	2.48	<0.7	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
01/14/14	781.70	3.92	NS	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
04/17/14	783.75	1.87	NS	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
07/15/14	782.74	2.88	NS	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
10/15/14	784.80	0.82	NS	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
ENFORCEMENT STANDARD ES = Bold			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured

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

A.1 Groundwater Analytical Table
 Browntown Oil BRRTS# 03-23-001503

Well MW-4

PVC Elevation = 784.70 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
09/26/12	777.67	7.03	<0.7	<0.5	<0.78	<0.8	<2.1	<0.53	<1.54	<1.9
03/20/13	779.28	5.42	<0.7	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
01/14/14	778.32	6.38	NS	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
04/17/14	779.72	4.98	NS	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
07/15/14	779.04	5.66	NS	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
10/15/14	780.71	3.99	NS	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
ENFORCEMENT STANDARD ES = Bold			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			1.5	0.5	140	12	10	160	96	400

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

Well MW-5

PVC Elevation = 783.61 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
09/26/12	776.99	6.62	<0.7	<0.5	2.06	<0.8	<2.1	<0.53	18.74	5.66
03/20/13	778.74	4.87	<0.7	<0.27	<0.82	<0.37	<1.2	<0.8	1.63-2.49	<2.41
01/14/14	777.66	5.95	NS	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
04/17/14	778.99	4.62	NS	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
07/15/14	778.34	5.27	NS	1.28	7.7	<0.37	1.78	2.74	39-39.86	12.2
10/15/14	779.63	3.98	NS	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
ENFORCEMENT STANDARD ES = Bold			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			1.5	0.5	140	12	10	160	96	400

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

Well MW-6

PVC Elevation = 783.92 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
09/26/12	777.57	6.35	<0.7	<0.5	<0.78	<0.8	<2.1	<0.53	<1.54	<1.9
03/20/13	779.53	4.39	<0.7	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
01/14/14	778.50	5.42	NS	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
04/17/14	779.68	4.24	NS	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
07/15/14	778.99	4.93	NS	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
10/15/14	780.84	3.08	NS	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
ENFORCEMENT STANDARD ES = Bold			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			1.5	0.5	140	12	10	160	96	400

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

A.1 Groundwater Analytical Table
(PAH)
Browntown Oil BRRTS# 03-23-001503

Well MW-1
PVC Elevation = 784.49 (feet) (MSL)

Date	Ace-naphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo(a)anthracene (ppb)	Benzo(a)pyrene (ppb)	Benzo(b)fluoranthene (ppb)	Benzo(g,h,i)Perylene (ppb)	Benzo(k)fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h)anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd)pyrene (ppb)	1-Methylnaphthalene (ppb)	2-Methylnaphthalene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
09/26/12	<0.025	<0.019	<0.018	<0.024	<0.018	<0.02	<0.019	<0.022	<0.019	<0.019	<0.022	<0.02	<0.018	1.63	2.49	8.9	0.019	<0.02
ENFORCEMENT STANDARD = ES Bold			3000	==	0.2	0.2	==	==	0.2	==	400	400	==	==	==	40	==	250
PREVENTIVE ACTION LIMIT = PAL <i>Italics</i>			600	==	0.02	0.020	==	==	0.02	==	80	80	==	==	==	8	==	50

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

Well MW-2
PVC Elevation = 784.44 (feet) (MSL)

Date	Ace-naphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo(a)anthracene (ppb)	Benzo(a)pyrene (ppb)	Benzo(b)fluoranthene (ppb)	Benzo(g,h,i)Perylene (ppb)	Benzo(k)fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h)anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd)pyrene (ppb)	1-Methylnaphthalene (ppb)	2-Methylnaphthalene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
09/26/12	<0.025	<0.019	<0.018	<0.024	<0.018	<0.02	<0.019	<0.022	<0.019	<0.019	<0.022	<0.02	<0.018	2.64	3.7	4.5	0.02	<0.02
ENFORCEMENT STANDARD = ES Bold			3000	==	0.2	0.2	==	==	0.2	==	400	400	==	==	==	40	==	250
PREVENTIVE ACTION LIMIT = PAL <i>Italics</i>			600	==	0.02	0.020	==	==	0.02	==	80	80	==	==	==	8	==	50

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

Well MW-3
PVC Elevation = 785.62 (feet) (MSL)

Date	Ace-naphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo(a)anthracene (ppb)	Benzo(a)pyrene (ppb)	Benzo(b)fluoranthene (ppb)	Benzo(g,h,i)Perylene (ppb)	Benzo(k)fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h)anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd)pyrene (ppb)	1-Methylnaphthalene (ppb)	2-Methylnaphthalene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
09/26/12	<0.025	<0.019	<0.018	<0.024	<0.018	<0.02	<0.019	<0.022	<0.019	<0.019	<0.022	<0.02	<0.018	<0.022	<0.024	<0.021	<0.019	<0.02
ENFORCEMENT STANDARD = ES Bold			3000	==	0.2	0.2	==	==	0.2	==	400	400	==	==	==	40	==	250
PREVENTIVE ACTION LIMIT = PAL <i>Italics</i>			600	==	0.02	0.020	==	==	0.02	==	80	80	==	==	==	8	==	50

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

A.1 Groundwater Analytical Table
(PAH)
Browtown Oil BRRTS# 03-23-001503

Well MW-4
PVC Elevation = 784.70 (feet) (MSL)

Date	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo(a)anthracene (ppb)	Benzo(a)pyrene (ppb)	Benzo(b)fluoranthene (ppb)	Benzo(g,h,i)Perylene (ppb)	Benzo(k)fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h)anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd)pyrene (ppb)	1-Methylnaphthalene (ppb)	2-Methylnaphthalene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
09/26/12	<0.025	<0.019	<0.018	<0.024	<0.018	<0.02	<0.019	<0.022	<0.019	<0.019	<0.022	<0.02	<0.018	<0.022	<0.024	0.051	<0.019	<0.02
ENFORCEMENT STANDARD = ES Bold			3000	==	0.2	0.2	==	==	0.2	==	400	400	==	==	==	40	==	250
PREVENTIVE ACTION LIMIT = PAL <i>Italics</i>			600	==	0.02	0.020	==	==	0.02	==	80	80	==	==	==	8	==	50

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

Well MW-5
PVC Elevation = 783.61 (feet) (MSL)

Date	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo(a)anthracene (ppb)	Benzo(a)pyrene (ppb)	Benzo(b)fluoranthene (ppb)	Benzo(g,h,i)Perylene (ppb)	Benzo(k)fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h)anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd)pyrene (ppb)	1-Methylnaphthalene (ppb)	2-Methylnaphthalene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
09/26/12	0.066	<0.019	<0.018	<0.024	<0.018	<0.02	<0.019	<0.022	<0.019	<0.019	<0.022	0.041	<0.018	0.43	0.093	0.35	<0.019	<0.02
ENFORCEMENT STANDARD = ES Bold			3000	==	0.2	0.2	==	==	0.2	==	400	400	==	==	==	40	==	250
PREVENTIVE ACTION LIMIT = PAL <i>Italics</i>			600	==	0.02	0.020	==	==	0.02	==	80	80	==	==	==	8	==	50

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

Well MW-6
PVC Elevation = 783.92 (feet) (MSL)

Date	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo(a)anthracene (ppb)	Benzo(a)pyrene (ppb)	Benzo(b)fluoranthene (ppb)	Benzo(g,h,i)Perylene (ppb)	Benzo(k)fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h)anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd)pyrene (ppb)	1-Methylnaphthalene (ppb)	2-Methylnaphthalene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
09/26/12	<0.025	<0.019	<0.018	<0.024	<0.018	<0.02	<0.019	<0.022	<0.019	<0.019	<0.022	<0.02	<0.018	<0.022	<0.024	0.049	<0.019	<0.02
ENFORCEMENT STANDARD = ES Bold			3000	==	0.2	0.2	==	==	0.2	==	400	400	==	==	==	40	==	250
PREVENTIVE ACTION LIMIT = PAL <i>Italics</i>			600	==	0.02	0.020	==	==	0.02	==	80	80	==	==	==	8	==	50

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

A.1 Groundwater Analytical Table
 Browntown Oil BRRTS# 03-23-001503

Well Sampling Conducted on September 26, 2012

VOC's Well Name	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	ENFORCEMENT STANDARD = ES - Bold	PREVENTIVE ACTION LIMIT = PAL - Italics
Benzene/ppb	3.3	1.16 "J"	< 0.5	< 0.5	< 0.5	< 0.5	5	<i>0.5</i>
Bromobenzene/ppb	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	==	==
Bromodichloromethane/ppb	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	0.6	<i>0.06</i>
Bromoform/ppb	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	4.4	<i>0.44</i>
tert-Butylbenzene/ppb	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	==	==
sec-Butylbenzene/ppb	3.4	1.75 "J"	< 1	< 1	1.06 "J"	< 1	==	==
n-Butylbenzene/ppb	6.8	7.5	< 0.9	< 0.9	1.07 "J"	< 0.9	==	==
Carbon Tetrachloride/ppb	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	5	<i>0.5</i>
Chlorobenzene/ppb	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	==	==
Chloroethane/ppb	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	400	<i>80</i>
Chloroform/ppb	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	6	<i>0.6</i>
Chloromethane/ppb	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	30	<i>3</i>
2-Chlorotoluene/ppb	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	==	==
4-Chlorotoluene/ppb	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	==	==
1,2-Dibromo-3-chloropropane/ppb	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	0.2	<i>0.02</i>
Dibromochloromethane/ppb	< 0.55	< 0.55	0.55	< 0.55	< 0.55	< 0.55	60	<i>6</i>
1,4-Dichlorobenzene/ppb	< 0.98	< 0.98	0.98	< 0.98	< 0.98	< 0.98	75	<i>15</i>
1,3-Dichlorobenzene/ppb	< 0.87	< 0.87	0.87	< 0.87	< 0.87	< 0.87	600	<i>120</i>
1,2-Dichlorobenzene/ppb	< 0.76	< 0.76	0.76	< 0.76	< 0.76	< 0.76	600	<i>60</i>
Dichlorodifluoromethane/ppb	< 1.8	< 1.8	1.8	< 1.8	< 1.8	< 1.8	1000	<i>200</i>
1,2-Dichloroethane/ppb	< 0.5	< 0.5	0.5	< 0.5	< 0.5	< 0.5	5	<i>0.5</i>
1,1-Dichloroethane/ppb	< 0.98	< 0.98	0.98	< 0.98	< 0.98	< 0.98	850	<i>85</i>
1,1-Dichloroethene/ppb	< 0.6	< 0.6	0.6	< 0.6	< 0.6	< 0.6	7	<i>0.7</i>
cis-1,2-Dichloroethene/ppb	< 0.74	< 0.74	0.74	< 0.74	< 0.74	< 0.74	70	<i>7</i>
trans-1,2-Dichloroethene/ppb	< 0.79	< 0.79	0.79	< 0.79	< 0.79	< 0.79	100	<i>20</i>
1,2-Dichloropropane/ppb	< 0.4	< 0.4	0.4	< 0.4	< 0.4	< 0.4	5	<i>0.5</i>
2,2-Dichloropropane/ppb	< 1.9	< 1.9	1.9	< 1.9	< 1.9	< 1.9	==	==
1,3-Dichloropropane/ppb	< 0.71	< 0.71	0.71	< 0.71	< 0.71	< 0.71	==	==
Di-isopropyl ether/ppb	< 0.69	< 0.69	0.69	< 0.69	< 0.69	< 0.69	==	==
EDB (1,2-Dibromoethane)/ppb	< 0.63	< 0.63	0.63	< 0.63	< 0.63	< 0.63	0.05	<i>0.005</i>
Ethylbenzene/ppb	16.7	33	0.78	< 0.78	2.06 "J"	< 0.78	700	<i>140</i>
Hexachlorobutadiene/ppb	< 2.2	< 2.2	2.2	< 2.2	< 2.2	< 2.2	==	==
Isopropylbenzene/ppb	9.4	5	< 0.92	< 0.92	1.42 "J"	< 0.92	==	==
p-Isopropyltoluene/ppb	5.4	< 0.92	< 0.92	< 0.92	1.28 "J"	< 0.92	==	==
Methylene chloride/ppb	< 1.1	< 1.1	1.1	< 1.1	< 1.1	< 1.1	5	<i>0.5</i>
Methyl tert-butyl ether (MTBE)/ppb	< 0.8	< 0.8	0.8	< 0.8	< 0.8	< 0.8	60	<i>12</i>
Naphthalene/ppb	17.6	16.1	< 2.1	< 2.1	< 2.1	< 2.1	100	<i>10</i>
n-Propylbenzene/ppb	14.7	20	0.59	< 0.59	2.25	< 0.59	==	==
1,1,2,2-Tetrachloroethane/ppb	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	0.2	<i>0.02</i>
1,1,1,2-Tetrachloroethane/ppb	< 1	< 1	< 1	< 1	< 1	< 1	70	<i>7</i>
Tetrachloroethene (PCE)/ppb	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	5	<i>0.5</i>
Toluene/ppb	17	3.6	0.53	< 0.53	< 0.53	< 0.53	800	<i>160</i>
1,2,4-Trichlorobenzene/ppb	< 1.5	< 1.5	1.5	< 1.5	< 1.5	< 1.5	70	<i>14</i>
1,2,3-Trichlorobenzene/ppb	< 1.3	< 1.3	1.3	< 1.3	< 1.3	< 1.3	==	==
1,1,1-Trichloroethane/ppb	< 0.85	< 0.85	0.85	< 0.85	< 0.85	< 0.85	200	<i>40</i>
1,1,2-Trichloroethane/ppb	< 0.47	< 0.47	0.47	< 0.47	< 0.47	< 0.47	5	<i>0.5</i>
Trichloroethene (TCE)/ppb	< 0.47	< 0.47	0.47	< 0.47	< 0.47	< 0.47	5	<i>0.5</i>
Trichlorofluoromethane/ppb	< 1.7	< 1.7	1.7	< 1.7	< 1.7	< 1.7	==	==
1,2,4-Trimethylbenzene/ppb	97	135	< 0.8	< 0.8	15.6	< 0.8	Total TMB's 480	<i>Total TMB's 96</i>
1,3,5-Trimethylbenzene/ppb	27.6	41	< 0.74	< 0.74	3.14	< 0.74	0.2	<i>0.02</i>
Vinyl Chloride/ppb	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	Total Xylenes 2000	<i>Total Xylenes 400</i>
m&p-Xylene/ppb	88	51	< 1.1	< 1.1	3.11 "J"	< 1.1		
o-Xylene/ppb	41	12.4	< 0.8	< 0.8	2.55 "J"	< 0.8		

NS = not sampled, NM = Not Measured
 Q = Analyte detected above laboratory method detection limit but below practical quantitation limit.
 == = No Exceedences

A.2. Soil Analytical Results Table
 Browntown Oil BRRTS# 03-23-001503

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naphthalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppm)	DIRECT CONTACT PVOC & PAH COMBINED		
																	Exceedance Count	Hazard Index	Cumulative Cancer Risk
1	11	S	12/08/98	3	NOT SAMPLED												NS		
2	11	S	12/08/98	15	NOT SAMPLED												NS		
3	11	S	12/08/98	916	NS	NS	1900	NS	NS	NS	NS	NS	NS	NS	NS	NS			
4	8.5	S	12/08/98	556	NOT SAMPLED												NS		
5	8.5	S	12/08/98	5	NOT SAMPLED												NS		
6	8.5	S	12/08/98	9	NOT SAMPLED												NS		
7	8.5	S	12/08/98	27	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS			
8	8.5	S	12/08/98	59	NOT SAMPLED												NS		
9	8.5	S	12/08/98	33	NOT SAMPLED												NS		
10	9	S	12/08/98	59	NOT SAMPLED												NS		
11	9	S	12/08/98	172	NOT SAMPLED												NS		
Piping 1	2	U	12/08/98	636	NOT SAMPLED												NS		
Piping 2	2	U	12/08/98	24	NOT SAMPLED												NS		
G-1-1	3	U	10/10/11	0	39	NS	<10	<0.025	<0.025	<0.025	<0.025	0.045	<0.025	<0.025	0.058-0.083	NS			
G-1-2	6	S	10/10/11	50	NS	NS	22	0.032	0.320	<0.025	0.470	0.125	2.67	1.11	2.23	NS			
G-2-1	3	U	10/10/11	0	45.0	NS	<10	<0.025	<0.025	<0.025	<0.025	0.079	<0.025	<0.025	<0.075	NS			
G-2-2	6	S	10/10/11	100	NS	NS	<10	<0.025	0.091	<0.025	0.082	0.043	0.450	0.165	0.494	NS			
G-3-1	3	U	10/10/11	0	NS	12.8	NS	<0.025	<0.025	<0.025	<0.0108	<0.025	<0.025	<0.025	0.068-0.118	NS			
G-3-2	6	S	10/10/11	50	NS	27.3	NS	<0.025	1.43	<0.025	2.87	0.120	2.09	2.95	2.15	NS			
G-4-1	3	U	10/10/11	200	21.8	NS	2860	<0.089	1.41	<0.120	12.5	<0.500	76	30.2	11.09	SEE VOC SPREAD-SHEET	1	1.02E+00	2.6E-06
G-4-2	6	S	10/10/11	250	NS	NS	1140	0.810	8.4	<0.250	6.2	5.1	48	19	37.3	NS			
G-5-1	3	U	10/10/11	0	25.4	NS	<10	<0.025	<0.025	<0.025	<0.025	0.036	<0.025	<0.025	<0.075	NS			
G-5-2	6	S	10/10/11	150	NS	NS	370	0.460	4.6	<0.250	3.7	1.76	12.3	5.9	9.48	NS			
G-6-1	3	U	10/10/11	0	NOT SAMPLED												NS		
G-6-2	6	S	10/10/11	0	NOT SAMPLED												NS		
G-7-1	3	U	10/10/11	0	NOT SAMPLED												NS		
G-7-2	6	S	10/10/11	0	NOT SAMPLED												NS		
G-8-1	3	U	10/11/11	0	NOT SAMPLED												NS		
G-8-2	6	S	10/11/11	0	NOT SAMPLED												NS		
G-9-1	3	U	10/11/11	10	14.2	NS	<10	<0.025	<0.025	<0.025	<0.025	0.036	<0.025	<0.025	<0.075	NS			
G-9-2	6	S	10/11/11	20	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	0.036	<0.025	<0.025	<0.075	NS			
G-10-1	3	U	10/11/11	0	NOT SAMPLED												NS		
G-10-2	6	S	10/11/11	200	NS	NS	1150	0.580	12.4	<0.0250	1.09	4.8	10.1	5.1	12.62	NS			
G-11-1	3	U	10/11/11	0	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	0.036	<0.025	<0.025	<0.075	NS			
G-11-2	6	S	10/11/11	0	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	0.036	<0.025	<0.025	<0.075	NS			
G-12-1	3	U	10/11/11	0	NOT SAMPLED												NS		
G-12-2	6	S	10/11/11	0	NOT SAMPLED												NS		
G-13-1	3	U	10/11/11	0	NOT SAMPLED												NS		
G-13-2	6	U	10/11/11	60	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	0.036	<0.025	<0.025	<0.075	NS			
G-14-1	3	U	10/11/11	0	NOT SAMPLED												NS		
G-14-2	6	U	10/11/11	0	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	0.036	<0.025	<0.025	<0.075	NS			
G-15-1	3	U	10/11/11	0	NOT SAMPLED												NS		
G-15-2	6	U	10/11/11	0	NOT SAMPLED												NS		
G-16-1	3	U	10/11/11	0	NOT SAMPLED												NS		
G-16-2	5-7	U	10/11/11	0	NOT SAMPLED												NS		
G-17-1	3	U	10/11/11	0	15.5	NS	<10	<0.025	<0.025	<0.025	<0.025	0.036	<0.025	<0.025	<0.075	NS			
G-17-2	6	S	10/11/11	250	NS	NS	<10	<0.025	0.570	<0.025	0.320	0.110	1.02	0.340	3.25	NS			
MW-1-1	3.5	U	06/04/12	0	5	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
MW-1-2	8	S	06/04/12	40	NS	NS	<10	<0.025	0.03	<0.025	0.0274	0.049	0.198	0.124	0.287	NS			
MW-1-3	13	S	06/04/12	10	NOT SAMPLED												NS		
MW-3-1	3.5	U	06/04/12	0	NOT SAMPLED												NS		
MW-3-2	6-8	S	06/04/12	0	NOT SAMPLED												NS		
MW-3-3	13	S	06/04/12	0	NOT SAMPLED												NS		
MW-4-1	3.5	U	06/04/12	0	NOT SAMPLED												NS		
MW-4-2	6-8	S	06/04/12	0	NO RECOVERY												NS		
MW-4-3	13	S	06/04/12	0	NOT SAMPLED												NS		
MW-5-1	3.5	U	06/04/12	0	NOT SAMPLED												NS		
MW-5-2	6.5	U	06/04/12	0	NOT SAMPLED												NS		
MW-5-3	13	S	06/04/12	0	NOT SAMPLED												NS		
MW-6-1	3	U	06/04/12	0	NOT SAMPLED												NS		
MW-6-2	6	U	06/04/12	0	NOT SAMPLED												NS		
MW-6-3	13	S	06/04/12	0	NOT SAMPLED												NS		
Groundwater RCL					27	-	-	0.00512	1.57	0.027	0.659	1.11	1.38	3.94	-				
Non-Industrial Direct Contact RCL					400	-	-	1.49	7.47	59.4	5.15	818	89.8	182	258	-		1.00E+00	1.00E-05
Soil Saturation Concentration (C-sat)*					-	-	-	1820*	480*	8870*	-	818*	219*	182*	258*	-			

Bold = Groundwater RCL Exceedance
 Bold & Underline = Non Industrial Direct Contact RCL Exceedance
 Bold & Asteric * = C-sat Exceedance
 NS = Not Sampled
 NM = Not Measured
 (ppm) = parts per million
 DRO = Diesel Range Organics
 GRO = Gasoline Range Organics
 PID = Photoionization Detector
 PVOC's = Petroleum Volatile Organic Compounds

A.2. Soil Analytical Results Table
 (Geoprobe PAH)
 Browntown Oil BRRS# 03-23-001503

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)	DIRECT CONTACT PVOC & PAH COMBINED		
																						Exceedance Count	Hazard Index	Cumulative Cancer Risk
G-3-1	3		10/10/11	<0.0097	<0.0084	<0.0102	<0.0146	<0.0166	<0.0167	<0.0082	<0.0161	0.0115	<0.0105	0.0155	<0.0107	<0.0095	<0.0179	<0.0096	<0.0108	<0.0098	0.0143			
Groundwater RCL				---	---	197	---	0.47	0.48	---	---	0.145	---	88.8	14.8	---	---	---	0.659	---	54.5			
Non-Industrial Direct Contact RCL				3440	---	17200	0.148	0.0148	0.148	---	1.48	14.8	0.0148	2290	2290	0.148	15.6	229	5.15	---	1720	0	1.00E+00	1.00E-05
Soil Saturation Concentration (C-sat)*				---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			

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

A.2. Soil Analytical Results Table
 Browntown Oil BRRTS# 03-23-001503

Well Sampling Conducted on October 10, 2011

VOC's		Bold = Groundwater RCL	<u>Underline & Bold = Direct Contact RCL</u>	Asteric * & Bold = Soil Saturation (C-sat) RCL
Sample ID#	G-4-1			
Sample Depth/ft.	3			
Solids Percent	87.1	= =	= =	= =
Lead/ppm	21.8	27	400	= =
GRO/ppm	2860	= =	= =	= =
Benzene/ppm	< 0.089	0.00512	1.49	1820
Bromobenzene/ppm	< 0.140	= =	354	= =
Bromodichloromethane/ppm	< 0.120	0.000326	0.39	= =
Bromoform/ppm	< 0.200	0.00233	61.6	= =
tert-Butylbenzene/ppm	< 0.540	= =	183	183
sec-Butylbenzene/ppm	3.4	= =	145	145
n-Butylbenzene/ppm	15.9	= =	108	108
Carbon Tetrachloride/ppm	< 0.120	0.00388	0.85	= =
Chlorobenzene/ppm	< 0.094	= =	392	= =
Chloroethane/ppm	< 1.420	0.227	= =	= =
Chloroform/ppm	< 0.460	0.0033	0.42	= =
Chloromethane/ppm	< 0.070	0.0155	171	= =
2-Chlorotoluene/ppm	< 0.840	= =	= =	= =
4-Chlorotoluene/ppm	< 0.760	= =	= =	= =
1,2-Dibromo-3-chloropropane/ppm	< 0.770	0.000173	0.01	= =
Dibromochloromethane/ppm	< 0.095	0.032	0.93	= =
1,4-Dichlorobenzene/ppm	< 0.520	0.144	3.48	= =
1,3-Dichlorobenzene/ppm	< 0.530	1.15	297	297
1,2-Dichlorobenzene/ppm	< 0.510	1.17	376	376
Dichlorodifluoromethane/ppm	< 0.120	3.08	135	= =
1,2-Dichloroethane/ppm	< 0.130	0.00284	0.61	540
1,1-Dichloroethane/ppm	< 0.110	0.484	4.72	= =
1,1-Dichloroethene/ppm	< 0.220	0.00502	342	= =
cis-1,2-Dichloroethene/ppm	< 0.140	0.0412	156	= =
trans-1,2-Dichloroethene/ppm	< 0.220	0.0588	211	= =
1,2-Dichloropropane/ppm	< 0.110	0.00332	1.33	= =
2,2-Dichloropropane/ppm	< 0.330	= =	527	527
1,3-Dichloropropane/ppm	< 0.110	= =	1490	1490
Di-isopropyl ether/ppm	< 0.470	= =	2260	2260
EDB (1,2-Dibromoethane)/ppm	< 0.170	0.000282	0.05	= =
Ethylbenzene/ppm	1.410 "J"	1.57	7.47	480
Hexachlorobutadiene/ppm	< 0.950	= =	6.23	= =
Isopropylbenzene/ppm	2.65	= =	= =	= =
p-Isopropyltoluene/ppm	11.1	= =	162	162
Methylene chloride/ppm	< 1.190	0.00256	60.7	= =
Methyl tert-butyl ether (MTBE)/ppm	< 0.120	0.027	59.4	8870
Naphthalene/ppm	<u>12.5</u>	0.659	5.15	= =
n-Propylbenzene/ppm	5.5	= =	= =	= =
1,1,2,2-Tetrachloroethane/ppm	< 0.200	0.000156	0.75	= =
1,1,1,2-Tetrachloroethane/ppm	< 0.410	0.0533	2.59	= =
Tetrachloroethene (PCE)/ppm	< 0.240	0.00454	30.7	= =
Toluene/ppm	< 0.500	1.11	818	818
1,2,4-Trichlorobenzene/ppm	< 0.740	0.408	22.1	= =
1,2,3-Trichlorobenzene/ppm	< 1.290	= =	48.9	= =
1,1,1-Trichloroethane/ppm	< 0.110	0.14	= =	= =
1,1,2-Trichloroethane/ppm	< 0.160	0.00324	1.48	= =
Trichloroethene (TCE)/ppm	< 0.170	0.00358	0.64	= =
Trichlorofluoromethane/ppm	< 0.430	= =	1120	= =
1,2,4-Trimethylbenzene/ppm	76	1.38	89.8	219
1,3,5-Trimethylbenzene/ppm	30.2	= =	182	182
Vinyl Chloride/ppm	< 0.160	0.000138	0.07	= =
m&p-Xylene/ppm	9.6	3.94	258	258
o-Xylene/ppm	1.490 "J"	= =	= =	= =

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

A.3. Residual Soil Contamination Table
 Browntown Oil BRRTS# 03-23-001503

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naphthalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppm)	DIRECT CONTACT PVOC & PAH COMBINED		
																	Exceedance Count	Hazard Index	Cumulative Cancer Risk
G-1-1	3	U	10/10/11	0	39	NS	<10	<0.025	<0.025	<0.025	<0.025	0.045	<0.025	<0.025	0.058-0.083	NS			
G-1-2	6	S	10/10/11	50	NS	NS	22	0.032	0.320	<0.025	0.470	0.125	2.67	1.11	2.23	NS			
G-2-1	3	U	10/10/11	0	45.0	NS	<10	<0.025	<0.025	<0.025	<0.025	0.079	<0.025	<0.025	<0.075	NS			
G-3-2	6	S	10/10/11	50	NS	27.3	NS	<0.025	1.43	<0.025	2.87	0.120	2.09	2.95	2.15	NS			
G-4-1	3	U	10/10/11	200	21.8	NS	2860	<0.089	1.41	<0.120	12.5	<0.500	76	30.2	11.09	SEE VOC SPREAD-SHEET	1	1.02E+00	2.6E-06
G-4-2	6	S	10/10/11	250	NS	NS	1140	0.810	8.4	<0.250	6.2	5.1	48	19	37.3	NS			
G-5-2	6	S	10/10/11	150	NS	NS	370	0.460	4.6	<0.250	3.7	1.76	12.3	5.9	9.48	NS			
G-10-2	6	S	10/11/11	200	NS	NS	1150	0.580	12.4	<0.0250	1.09	4.8	10.1	5.1	12.62	NS			
Groundwater RCL					27	-	-	0.00512	1.57	0.027	0.659	1.11	1.38	3.94	-				
Non-Industrial Direct Contact RCL					400	-	-	1.49	7.47	59.4	5.15	818	89.8	182	258	-	0	1.00E+00	1.00E-05
Soil Saturation Concentration (C-sat)*					-	-	-	1820*	480*	8870*	-	818*	219*	182*	258*	-			

Bold = Groundwater RCL Exceedance

Bold & Underline = Non Industrial Direct Contact RCL Exceedance

Bold & Asteric * = C-sat Exceedance

NS = Not Sampled

NM = Not Measured

(ppm) = parts per million

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

PID = Photoionization Detector

PVOC's = Petroleum Volatile Organic Compounds

A.6 Water Level Elevations
Browntown Oil BRRTS# 03-23-001503
Browntown, Wisconsin

	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6
Ground Surface (feet msl)	785.13	784.80	786.00	785.12	784.13	784.40
PVC top (feet msl)	784.49	784.44	785.62	784.70	783.61	783.92
Well Depth (feet)	13.00	13.00	13.00	13.00	13.00	13.00
Top of screen (feet msl)	762.13	761.80	763.00	762.12	761.13	761.40
Bottom of screen (feet msl)	772.13	771.80	773.00	772.12	771.13	771.40
Depth to Water From Top of PVC (feet)						
09/26/12	5.50	4.62	5.41	7.03	6.62	6.35
03/20/13	3.37	1.81	2.48	5.42	4.87	4.39
01/14/14	4.65	3.17	3.92	6.38	5.95	5.42
04/17/14	3.20	1.57	1.87	4.98	4.62	4.24
07/15/14	3.78	2.40	2.88	5.66	5.27	4.93
10/15/14	2.62	0.83	0.82	3.99	3.98	3.08
Depth to Water From Ground Surface (feet)						
09/26/12	6.14	4.98	5.79	7.45	7.14	6.83
03/20/13	4.01	2.17	2.86	5.84	5.39	4.87
01/14/14	5.29	3.53	4.30	6.80	6.47	5.90
04/17/14	3.84	1.93	2.25	5.40	5.14	4.72
07/15/14	4.42	2.76	3.26	6.08	5.79	5.41
10/15/14	3.26	1.19	1.20	4.41	4.50	3.56
Groundwater Elevation (feet msl)						
09/26/12	778.99	779.82	780.21	777.67	776.99	777.57
03/20/13	781.12	782.63	783.14	779.28	778.74	779.53
01/14/14	779.84	781.27	781.70	778.32	777.66	778.50
04/17/14	781.29	782.87	783.75	779.72	778.99	779.68
07/15/14	780.71	782.04	782.74	779.04	778.34	778.99
10/15/14	781.87	783.61	784.80	780.71	779.63	780.84

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

CNL = Could Not Locate

NI = Not Installed

NM = Not Measured

A.7 Other
 Groundwater NA Indicator Results
 Browntown Oil BRRTS# 03-23-001503

Monitoring Well MW-1

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppm)
09/26/12	2.35	7.11	146.00	18.90	1684.00	3.12	24.8	<60	310
03/20/13	2.49	6.53	117.00	2.80	1298.00	NS	NS	NS	NS
01/14/14	3.13	6.61	109.00	6.90	819.00	NS	NS	NS	NS
04/17/14	3.11	6.68	300.00	3.80	1731.00	NS	NS	NS	NS
07/15/14	2.17	6.87	247.00	17.60	1551.00	NS	NS	NS	NS
10/15/14	2.16	6.17	262.00	14.40	917.00	NS	NS	NS	NS
ENFORCE MENT STANDARD = ES - Bold						10	-	-	300
PREVENTIVE ACTION LIMIT = PAL - <i>Italics</i>						2	-	-	60

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

Monitoring Well MW-2

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppm)
09/26/12	0.98	7.17	9.00	19.30	1107.00	0.18	30.2	3020	840
03/20/13	1.71	6.50	156.00	2.80	448.50	NS	NS	NS	NS
01/14/14	3.69	6.95	79.00	5.50	713.00	NS	NS	NS	NS
04/17/14	1.68	7.05	227.00	5.80	550.00	NS	NS	NS	NS
07/15/14	0.89	7.04	3.00	18.30	621.00	NS	NS	NS	NS
10/15/14	2.10	5.86	246.00	13.30	347.00	NS	NS	NS	NS
ENFORCE MENT STANDARD = ES - Bold						10	-	-	300
PREVENTIVE ACTION LIMIT = PAL - <i>Italics</i>						2	-	-	60

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

Monitoring Well MW-3

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppm)
09/26/12	2.44	6.55	279.00	16.60	1528.00	1.74	36.8	360	176
03/20/13	5.61	6.55	147.00	2.08	708.00	NS	NS	NS	NS
01/14/14	4.13	7.10	241.00	5.50	981.00	NS	NS	NS	NS
04/17/14	4.48	7.41	216.00	7.00	403.00	NS	NS	NS	NS
07/15/14	1.30	6.98	277.00	19.10	506.00	NS	NS	NS	NS
10/15/14	3.95	6.46	279.00	13.00	514.00	NS	NS	NS	NS
ENFORCE MENT STANDARD = ES - Bold						10	-	-	300
PREVENTIVE ACTION LIMIT = PAL - <i>Italics</i>						2	-	-	60

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

A.7 Other

Groundwater NA Indicator Results

Browntown Oil BRRTS# 03-23-001503

Monitoring Well MW-4

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppm)
09/26/12	0.22	7.17	170.00	16.60	3156.00	2.42	50.1	<60	248
03/20/13	0.71	6.81	108.00	5.90	2497.00	NS	NS	NS	NS
01/14/14	1.61	6.72	209.00	7.40	2610.00	NS	NS	NS	NS
04/17/14	1.64	6.79	106.00	6.90	2027.00	NS	NS	NS	NS
07/15/14	1.40	6.73	259.00	17.60	2295.00	NS	NS	NS	NS
10/15/14	3.95	6.12	312.00	13.80	1227.00	NS	NS	NS	NS
ENFORCE MENT STANDARD = ES - Bold						10	-	-	300
PREVENTIVE ACTION LIMIT = PAL - Italics						2	-	-	60

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

Well MW-5

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppm)
09/26/12	1.90	6.41	161.00	17.00	2326.00	<0.1	17.6	650	<0.7
03/20/13	1.53	6.58	139.00	4.20	3006.00	NS	NS	NS	NS
01/14/14	3.85	6.87	180.00	4.70	2811.00	NS	NS	NS	NS
04/17/14	2.02	7.19	69.00	5.70	2836.00	NS	NS	NS	NS
07/15/14	1.09	6.42	-1.00	16.50	4084.00	NS	NS	NS	NS
10/15/14	1.62	6.32	39.00	13.60	2161.00	NS	NS	NS	NS
ENFORCE MENT STANDARD = ES - Bold						10	-	-	300
PREVENTIVE ACTION LIMIT = PAL - Italics						2	-	-	60

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

Monitoring Well MW-6

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppm)
09/26/12	0.12	7.15	226.00	18.20	1032.00	0.99	44.5	<60	526
03/20/13	5.84	6.78	325.00	3.90	1182.00	NS	NS	NS	NS
01/14/14	2.49	6.26	238.00	5.80	1130.00	NS	NS	NS	NS
04/17/14	7.60	6.58	223.00	7.00	609.00	NS	NS	NS	NS
07/15/14	1.51	6.58	276.00	19.50	473.00	NS	NS	NS	NS
10/15/14	3.36	7.88	292.00	14.10	396.00	NS	NS	NS	NS
ENFORCE MENT STANDARD = ES - Bold						10	-	-	300
PREVENTIVE ACTION LIMIT = PAL - Italics						2	-	-	60

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

Attachment B/Maps and Figures

B.1 Location Maps

B.1.a Location Map

B.1.b Detailed Site Map

B.1.c RR Site Map

B.2 Soil Figures

B.2.a Soil Contamination

B.2.b Residual Soil Contamination

B.3 Groundwater Figures

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

B.3.b Groundwater Isoconcentration

B.3.c Groundwater Flow Direction

B.3.d Monitoring Wells

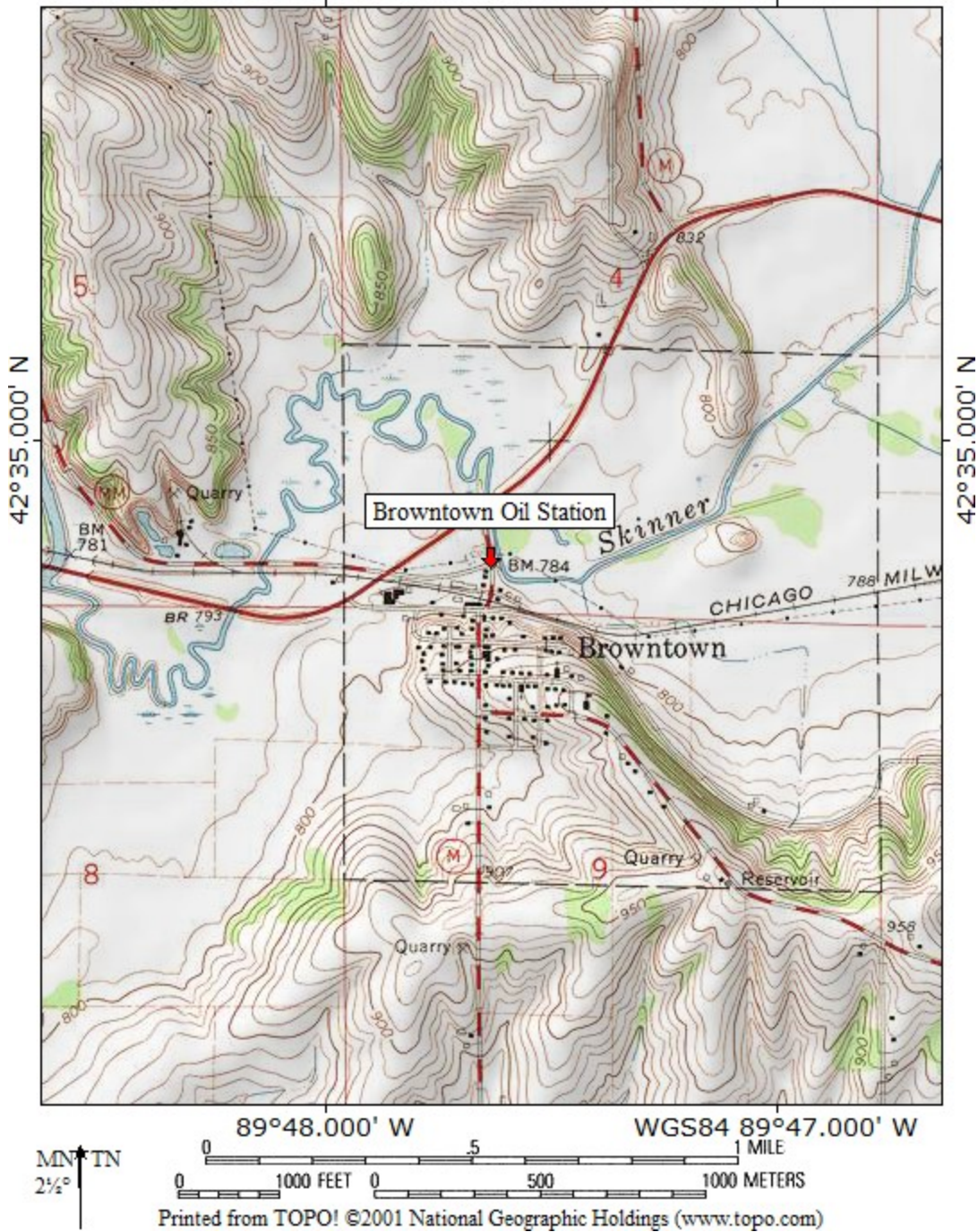
B.4 Vapor Maps and Other Media

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

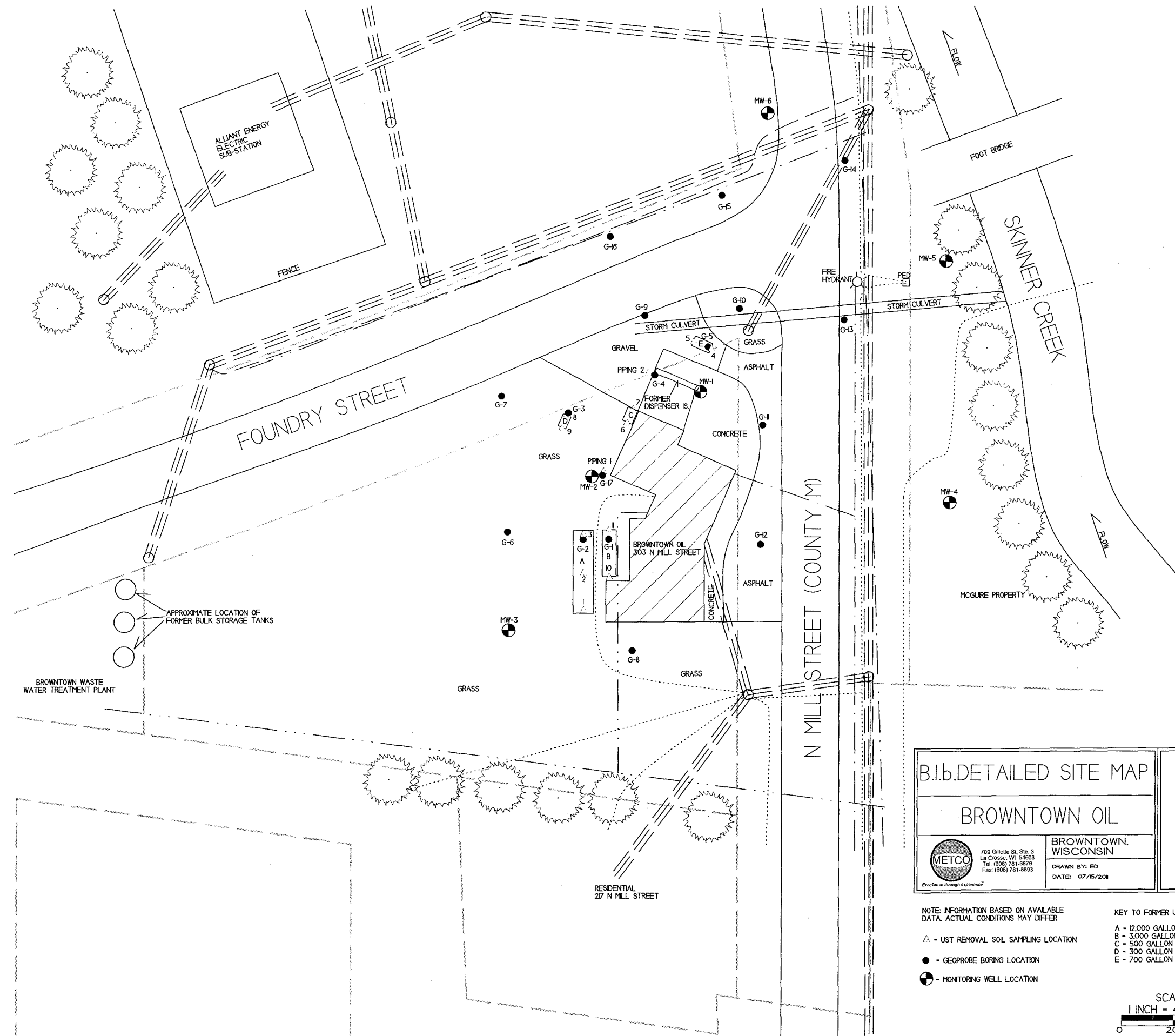
B.4.b Other media of concern (e.g., sediment or surface water) – No surface waters or sediments were sampled as part of this site investigation.

B.4.c Other – No other relevant maps and/or figures are being included.

TOPO! map printed on 10/19/15 from "Wisconsin.tpo" and "Untitled.tpg"
89°48.000' W WGS84 89°47.000' W



B.1.a LOCATION MAP
CONTOUR INTERVAL 10 FEET
BROWNTOWN OIL STATION – BROWNTOWN, WI
SEAMLESS USGS TOPOGRAPHIC MAPS ON CD-ROM



B.I.b.DETAILED SITE MAP	
BROWNTOWN OIL	
705 Gillette St. Ste. 3 La Crosse, WI 54603 Tel: (608) 781-8879 Fax: (608) 781-8893 <small>Excellence through experience</small>	BROWNTOWN, WISCONSIN DRAWN BY: ED DATE: 07/15/201

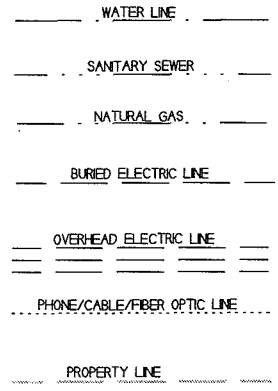
NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

- ▲ - UST REMOVAL SOIL SAMPLING LOCATION
- - GEOPROBE BORING LOCATION
- ⊕ - MONITORING WELL LOCATION

KEY TO FORMER UST'S

- A - 12,000 GALLON LEADED GASOLINE
- B - 3,000 GALLON UNLEADED GASOLINE
- C - 500 GALLON FUEL OIL
- D - 300 GALLON KEROSENE
- E - 700 GALLON LEADED GASOLINE

SCALE:
1 INCH = 40 FEET





B.1.c. RR Sites Map



Legend

- Open Site (ongoing cleanup)
- Open Site Boundary
- Closed Site (completed cleanup)
- Closed Site Boundary
- Groundwater Contamination
- Soil Contamination
- Groundwater and Soil Contamination
- Contamination From Another Property
- Dryclean Environmental Response Fund (DERF)
- Green Space Grant (2004-2009)
- Ready for Reuse
- Site Assessment Grant (2001-2009)
- State Funded Response
- Sustainable Urban Development Zone (SUDZ)
- General Liability Clarification Letters
- Superfund NPL
- Voluntary Party Liability Exemption
- Rivers and Streams
- Open Water



NAD_1983_HARN_Wisconsin_TM

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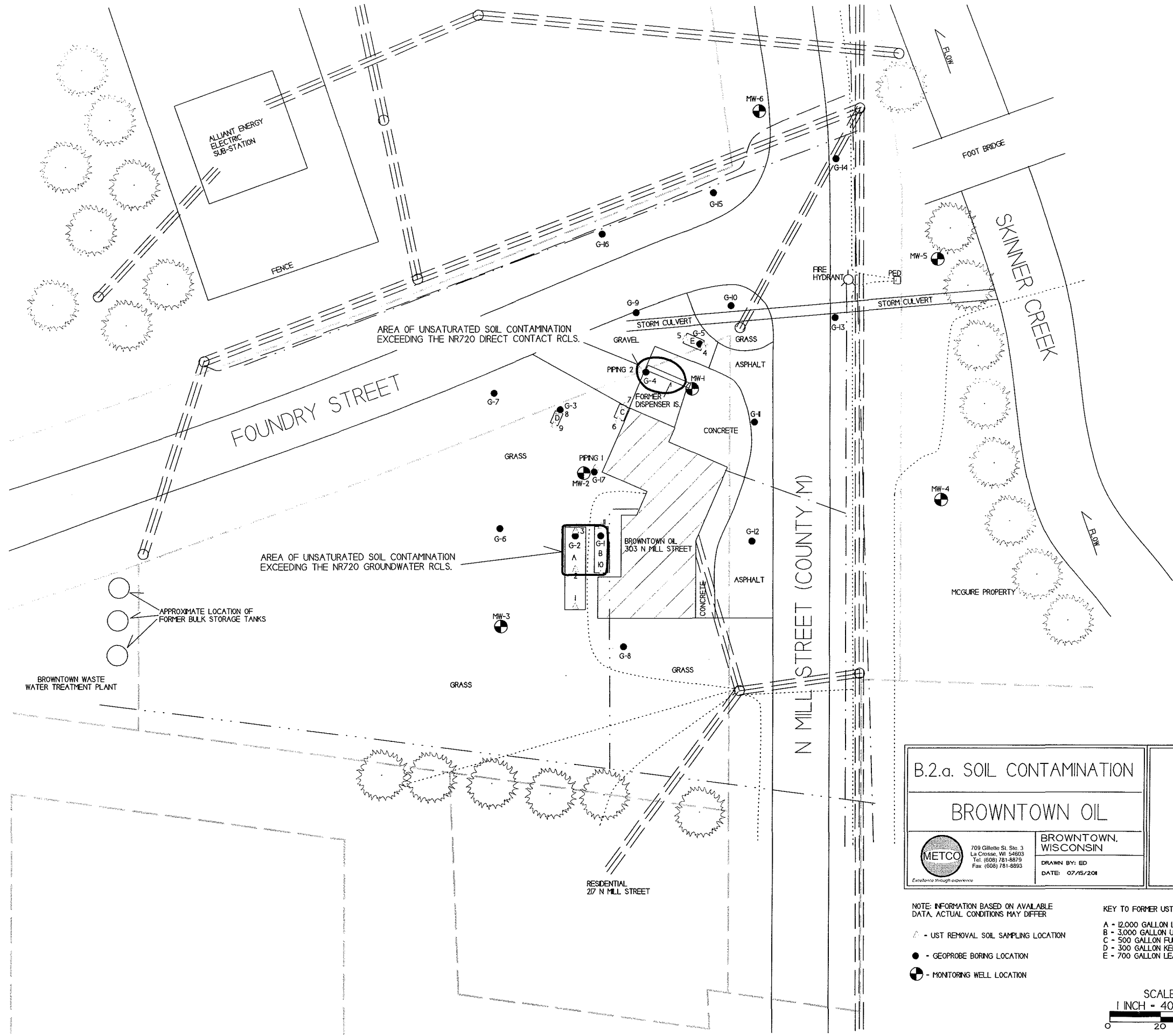


DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No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

Note: Not all sites are mapped.

Notes

The GIS Registry shows an ERP site (Green County Ag Service) in the location of the Brownstown Oil site, which is incorrect. The GIS Registry also shows the Brownstown Oil site to be approximately 500 feet to the south of its actual location.



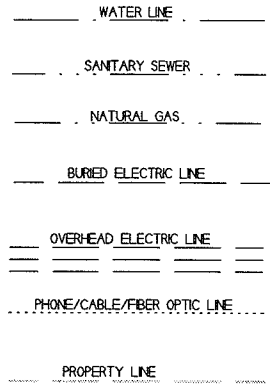
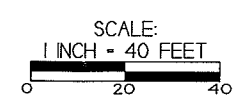
B.2.a. SOIL CONTAMINATION	
BROWNTOWN OIL	
709 Gillette St. Ste. 3 Ly Cross, WI 54603 Tel: (608) 781-8879 Fax: (608) 781-8893 <small>Experience through experience</small>	BROWNTOWN, WISCONSIN DRAWN BY: ED DATE: 07/15/2011

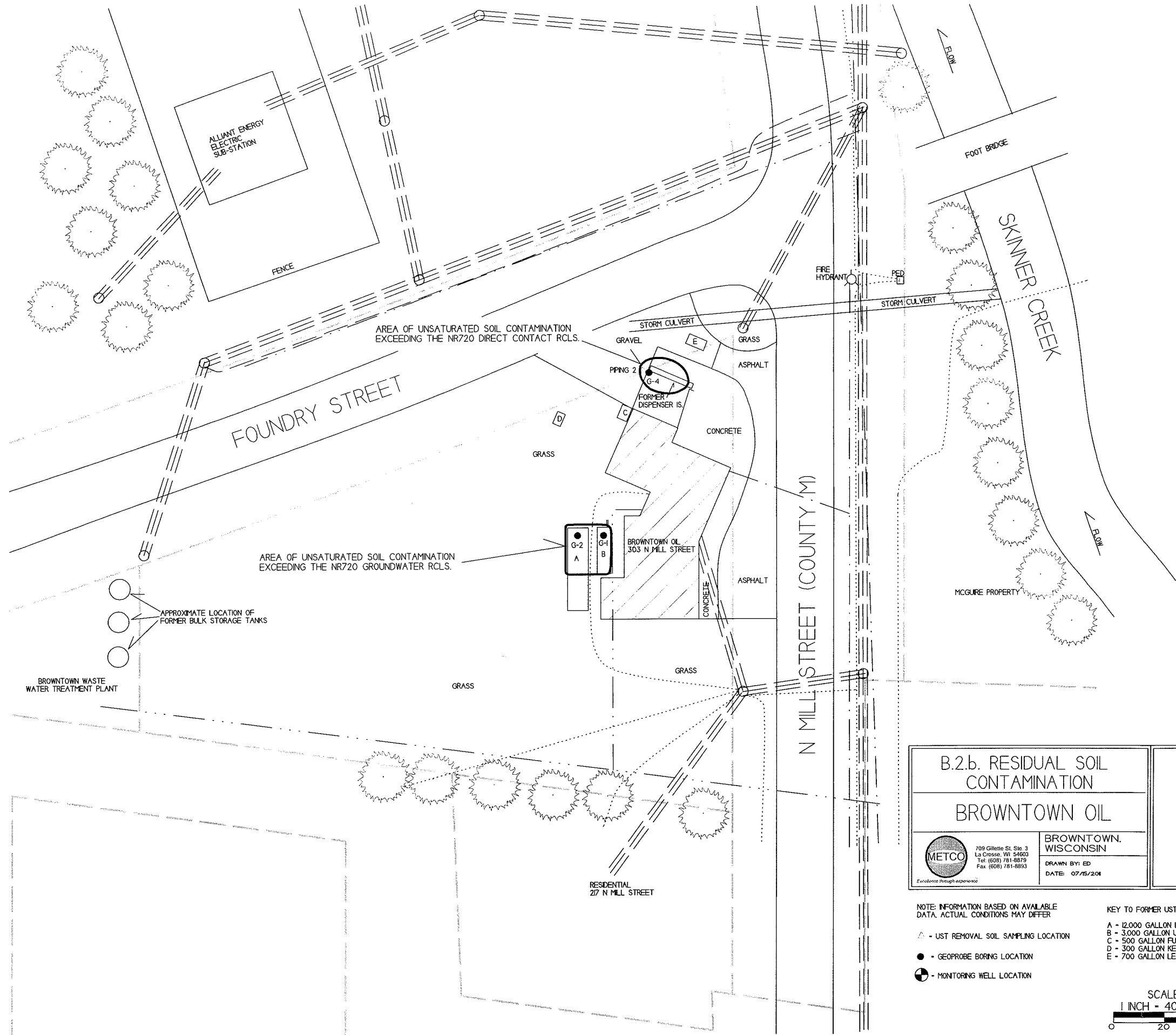
NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER


- ▲ - UST REMOVAL SOIL SAMPLING LOCATION
- - GEOPROBE BORING LOCATION
- ⊙ - MONITORING WELL LOCATION

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- D - 300 GALLON KEROSENE
- E - 700 GALLON LEADED GASOLINE

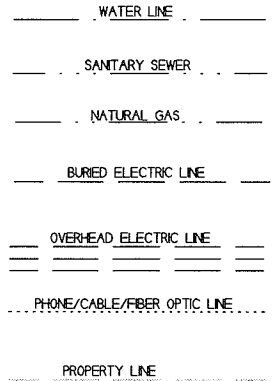
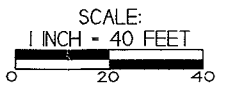


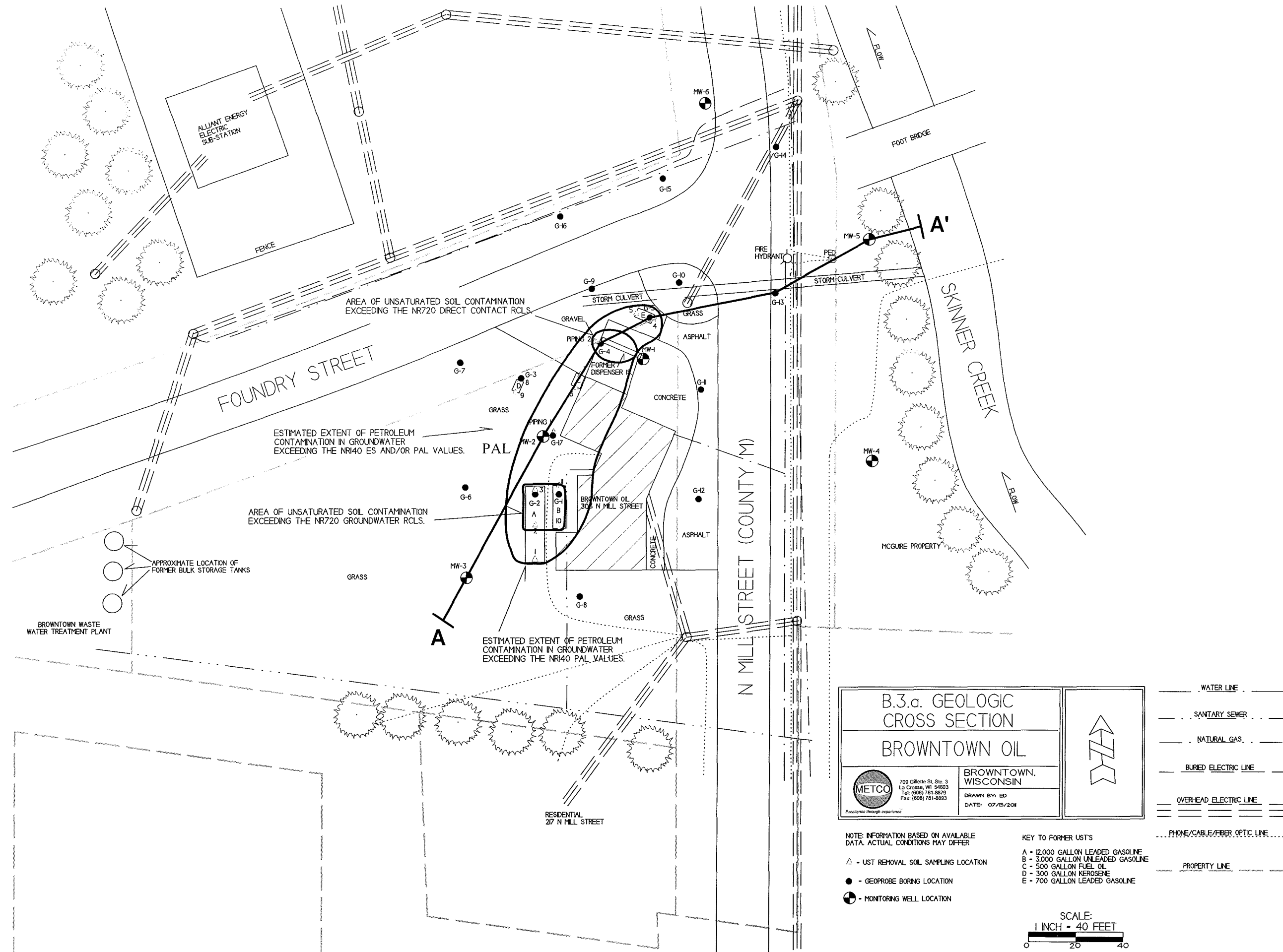


B.2.b. RESIDUAL SOIL CONTAMINATION	
BROWNTOWN OIL	
 <small>709 Gillette St. Ste. 3 La Crosse, WI 54603 Tel: (608) 781-8879 Fax: (608) 781-8893 Evidenced through experience</small>	BROWNTOWN, WISCONSIN <small>DRAWN BY: ED DATE: 07/15/201</small>

- NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER
- ▲ - UST REMOVAL SOIL SAMPLING LOCATION
 - - GEOPROBE BORING LOCATION
 - ⊕ - MONITORING WELL LOCATION

- KEY TO FORMER UST'S
- A - 12,000 GALLON LEADED GASOLINE
 - B - 3,000 GALLON UNLEADED GASOLINE
 - C - 500 GALLON FUEL OIL
 - D - 300 GALLON KEROSENE
 - E - 700 GALLON LEADED GASOLINE





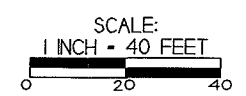
B.3.d. GEOLOGIC CROSS SECTION BROWNTOWN OIL		
 <small>709 Gillette St. Ste. 3 La Crosse, WI 54603 Tel: (608) 781-8879 Fax: (608) 781-8853</small>	BROWNTOWN, WISCONSIN <small>DRAWN BY: ED DATE: 07/15/2018</small>	

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

- △ - UST REMOVAL SOIL SAMPLING LOCATION
- - GEOPROBE BORING LOCATION
- ⊙ - MONITORING WELL LOCATION

- KEY TO FORMER UST'S
- A - 12,000 GALLON LEADED GASOLINE
 - B - 3,000 GALLON UNLEADED GASOLINE
 - C - 500 GALLON FUEL OIL
 - D - 300 GALLON KEROSENE
 - E - 700 GALLON LEADED GASOLINE

- WATER LINE —
- - - SANITARY SEWER - - -
- NATURAL GAS —
- BURIED ELECTRIC LINE —
- OVERHEAD ELECTRIC LINE —
- - - PHONE/CABLE/FIBER OPTIC LINE - - -
- PROPERTY LINE —



B.3.a GEOLOGIC CROSS SECTION
BROWNTOWN OIL

METCO
 709 Grande St., Box 3
 La Crosse, WI 54601
 Tel: (608) 781-8679
 Fax: (608) 781-8893

BROWNTOWN, WISCONSIN
 DRAWN BY: BW
 DATE: 7/23/03

INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER.

SOIL SAMPLE RESULTS FOR LEAD AND GRO ARE PRESENTED IN PARTS PER MILLION (PPM).

SOIL SAMPLE RESULTS FOR PVOC AND NAPHTHALENE ARE PRESENTED IN PARTS PER BILLION (PPB).

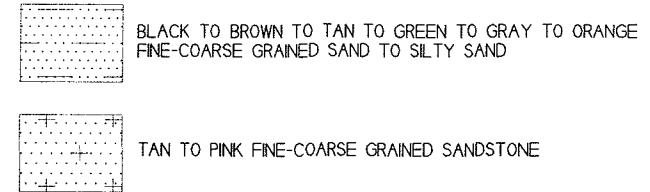
GROUNDWATER SAMPLE RESULTS ARE PRESENTED IN PPB.

GROUNDWATER FLOW IS TOWARD THE NORTHEAST.

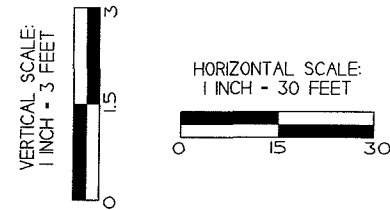
NOTE: SOIL AND GROUNDWATER SAMPLE DATA IS BASED ON LABORATORY RESULTS FROM SAMPLES COLLECTED DURING THE FOLLOWING EVENTS:

- TANK REMOVAL (12/08/1998)
- GEOPROBE PROJECT (10/10/2010)
- DRILLING PROJECT (06/04/2012)
- ROUND 2 GROUNDWATER SAMPLING (03/20/2013)

- ▲ - UST REMOVAL SOIL SAMPLING LOCATION
- - GEOPROBE BORING LOCATION
- ⊙ - GEOPROBE SOIL SAMPLE LOCATION
- ⊕ - MONITORING WELL LOCATION
- ⊖ - SOIL BORING SAMPLE LOCATION
- ▼ - WATERTABLE

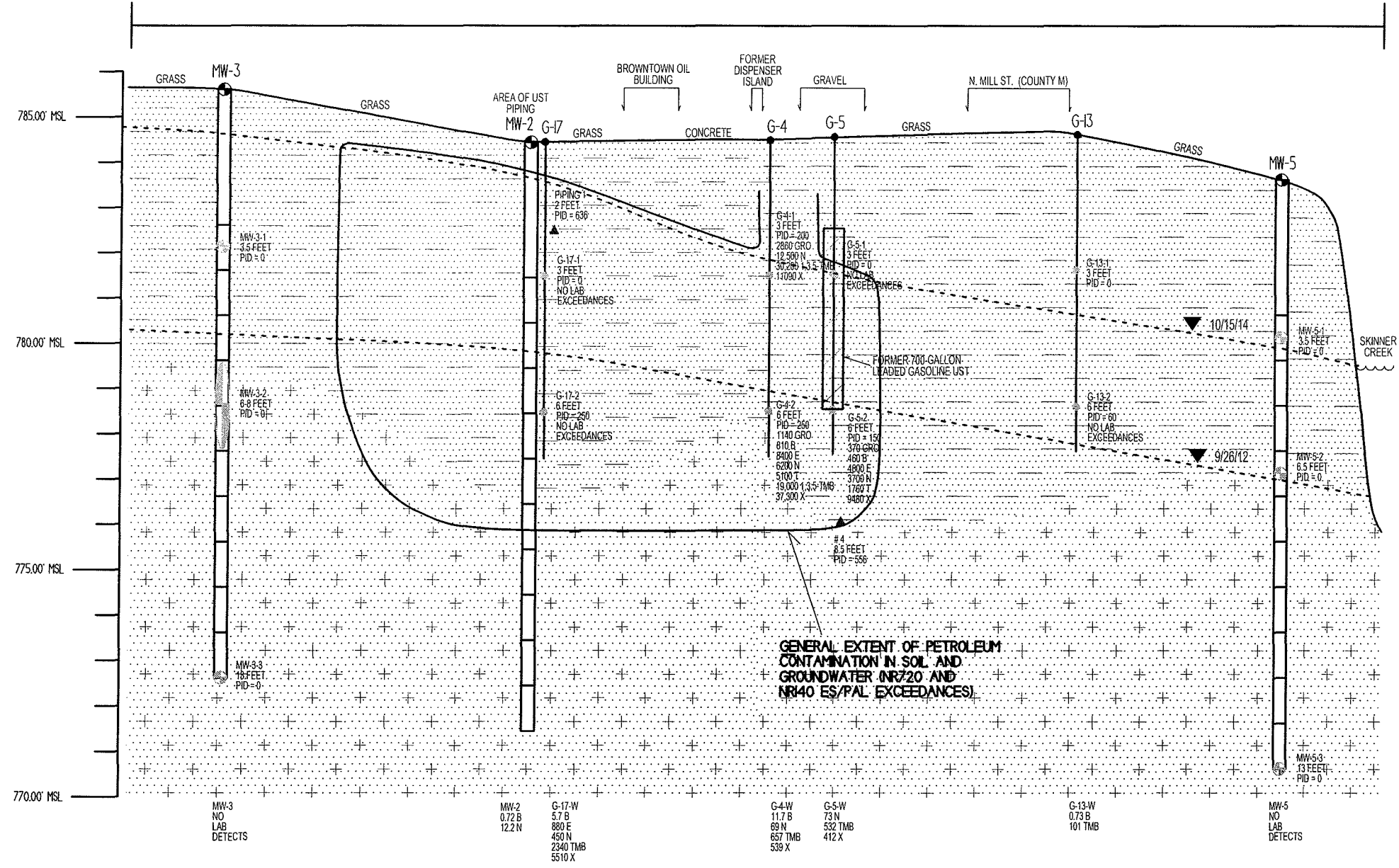


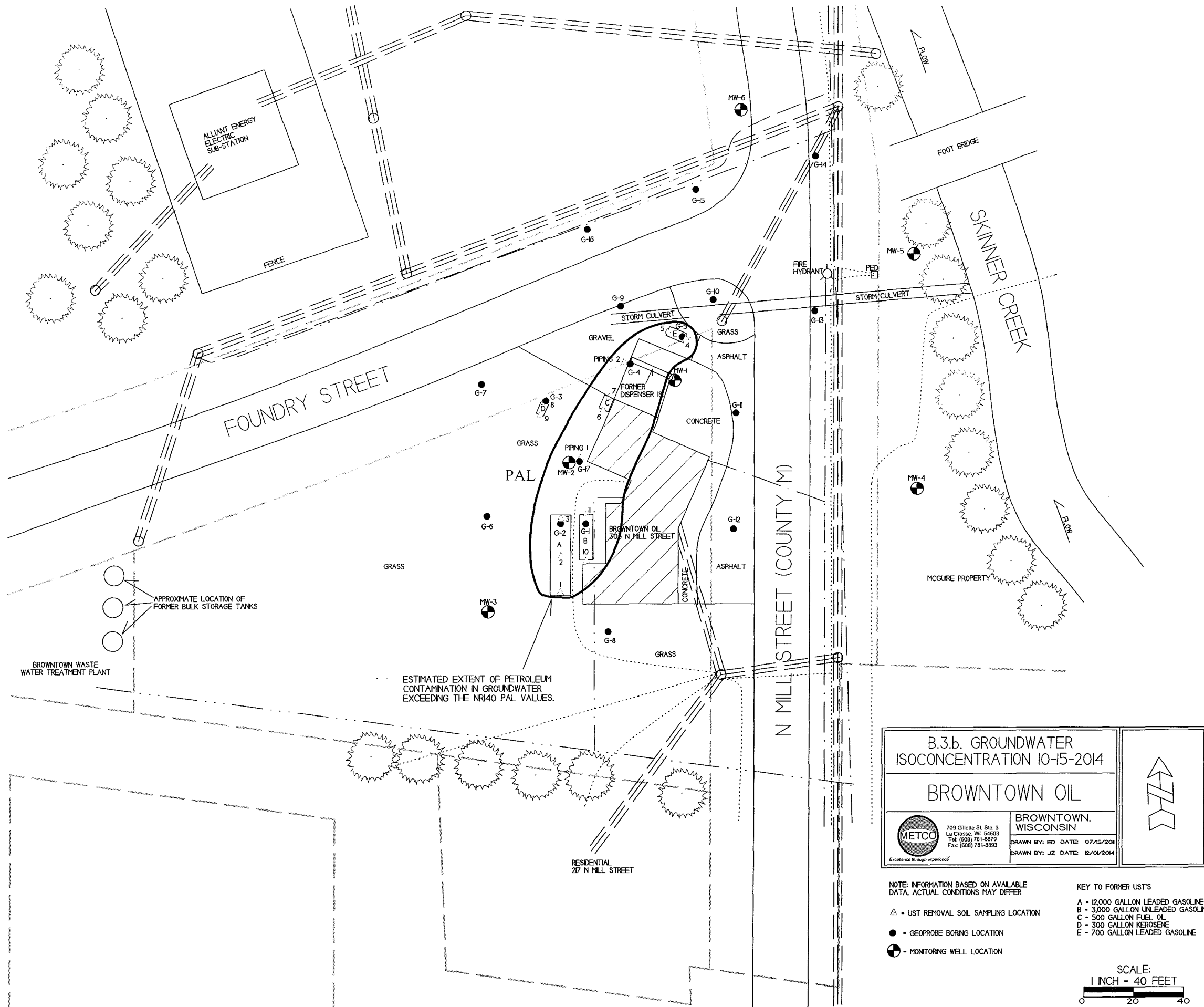
- PID - PHOTO IONIZATION DETECTOR
- GRO - GASOLINE RANGE ORGANICS
- B - BENZENE
- E - ETHYLBENZENE
- N - NAPHTHALENE
- T - TOLUENE
- TMB - TRIMETHYLBENZENE
- X - XYLENE



A
SOUTHWEST

A
NORTHEAST



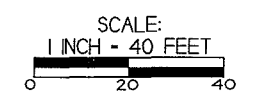


B.3.b. GROUNDWATER ISOCONCENTRATION 10-15-2014	
BROWNTOWN OIL	
 <small>709 Gillette St. Ste. 3 La Crosse, WI 54603 Tel: (608) 781-8879 Fax: (608) 781-8893</small>	BROWNTOWN, WISCONSIN
	<small>DRAWN BY: ED DATE: 07/15/2014 DRAWN BY: JZ DATE: 12/01/2014</small>

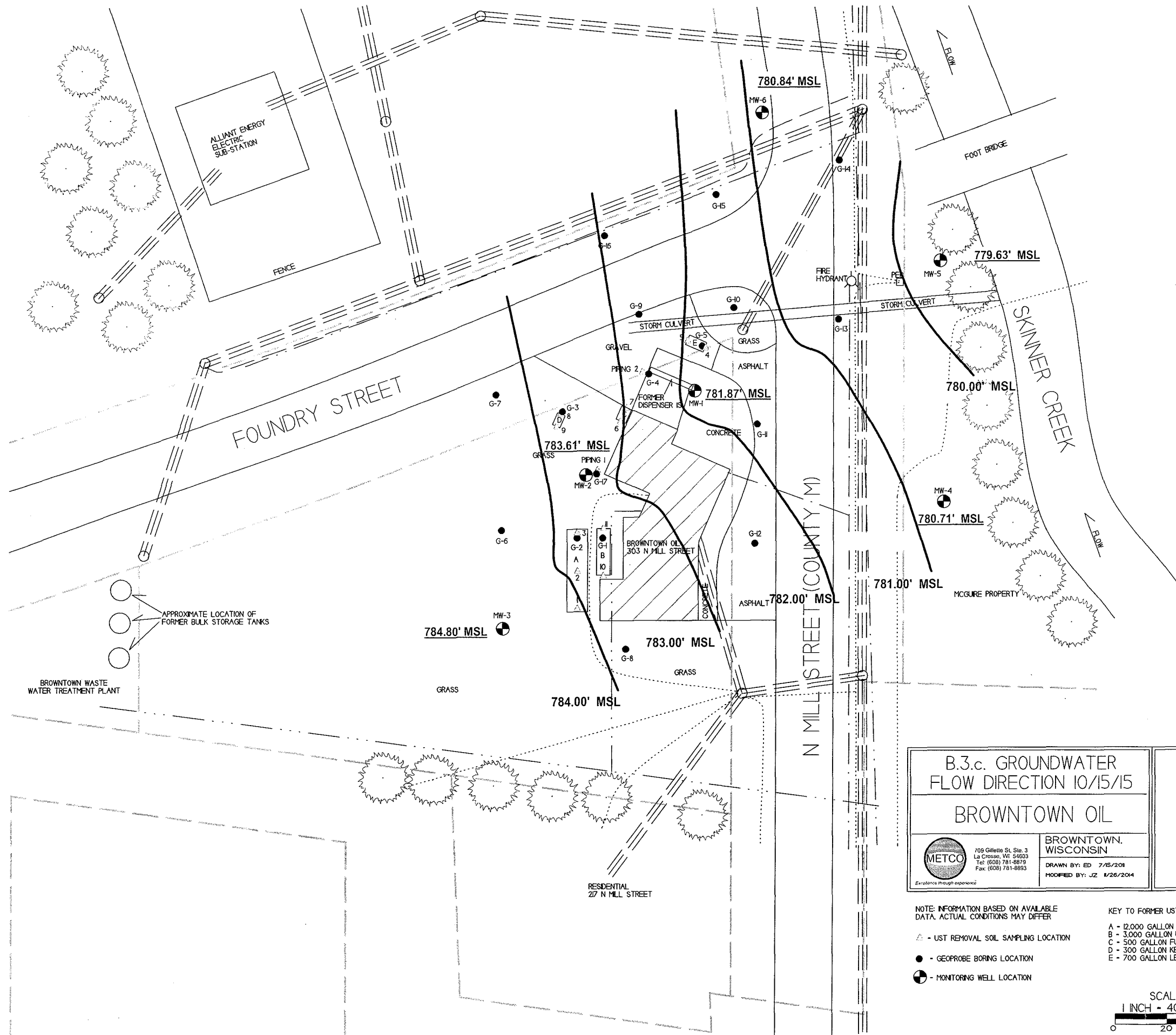
NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

▲ - UST REMOVAL SOIL SAMPLING LOCATION
 ● - GEOPROBE BORING LOCATION
 ⊕ - MONITORING WELL LOCATION

KEY TO FORMER UST'S
 A - 12,000 GALLON LEADED GASOLINE
 B - 3,000 GALLON UNLEADED GASOLINE
 C - 500 GALLON FUEL OIL
 D - 300 GALLON KEROSENE
 E - 700 GALLON LEADED GASOLINE



- WATER LINE —
- SANITARY SEWER —
- NATURAL GAS —
- BURIED ELECTRIC LINE —
- OVERHEAD ELECTRIC LINE —
- PHONE/CABLE/FIBER OPTIC LINE —
- PROPERTY LINE —



B.3.c. GROUNDWATER FLOW DIRECTION 10/15/15		
BROWNTOWN OIL		
	<small>709 Gillette St. Ste. 3 La Crosse, WI 54603 Tel: (608) 781-8879 Fax: (608) 781-8893</small>	BROWNTOWN, WISCONSIN <small>DRAWN BY: ED 7/15/2014 MODIFIED BY: JZ 1/26/2014</small>

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

▲ - UST REMOVAL SOIL SAMPLING LOCATION

● - GEOPROBE BORING LOCATION

⊕ - MONITORING WELL LOCATION

KEY TO FORMER UST'S

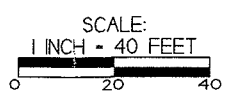
A - 12,000 GALLON LEADED GASOLINE

B - 3,000 GALLON UNLEADED GASOLINE

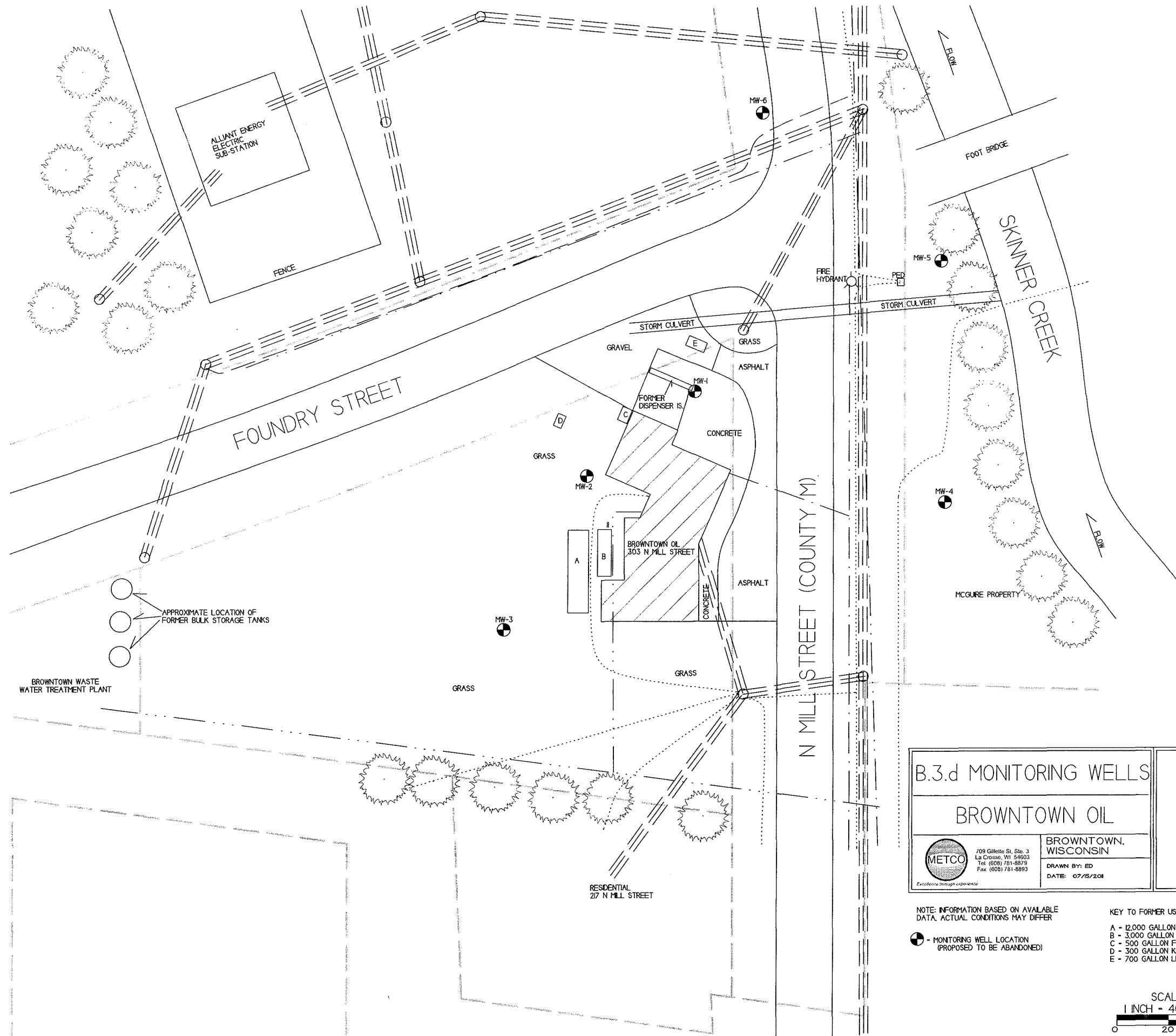
C - 500 GALLON FUEL OIL

D - 300 GALLON KEROSENE

E - 700 GALLON LEADED GASOLINE



- WATER LINE —
- SANTARY SEWER —
- NATURAL GAS —
- BURIED ELECTRIC LINE —
- OVERHEAD ELECTRIC LINE —
- PHONE/CABLE/FIBER OPTIC LINE —
- PROPERTY LINE —



BROWNTOWN WASTE WATER TREATMENT PLANT

APPROXIMATE LOCATION OF FORMER BULK STORAGE TANKS

ALLIANT ENERGY ELECTRIC SUB-STATION

FOUNDRY STREET

STORM CULVERT

GRAVEL GRASS ASPHALT

FORMER DISPENSER IS.

CONCRETE

GRASS

MW-2

BROWNTOWN OIL 303 N MILL STREET

CONCRETE

ASPHALT

MW-3

GRASS

GRASS

N MILL STREET (COUNTY M)

RESIDENTIAL 217 N MILL STREET

FOOT BRIDGE

SKINNER CREEK

MCGUIRE PROPERTY

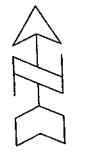
B.3.d MONITORING WELLS

BROWNTOWN OIL



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

BROWNTOWN, WISCONSIN
DRAWN BY: ED
DATE: 07/15/201



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

MONITORING WELL LOCATION (PROPOSED TO BE ABANDONED)

- KEY TO FORMER USTs
- A - 12,000 GALLON LEADED GASOLINE
 - B - 3,000 GALLON UNLEADED GASOLINE
 - C - 500 GALLON FUEL OIL
 - D - 300 GALLON KEROSENE
 - E - 700 GALLON LEADED GASOLINE

- WATER LINE
- SANITARY SEWER
- NATURAL GAS
- BURIED ELECTRIC LINE
- OVERHEAD ELECTRIC LINE
- PHONE/CABLE/FIBER OPTIC LINE
- PROPERTY LINE

SCALE:
1 INCH = 40 FEET

Attachment C/Documentation of Remedial Action

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

- Site Investigation Report, September 2013
- Groundwater Monitoring Report, December 2014

C.2 Investigative waste

C.3 Provide a description of the methodology used along with all supporting documentation if the Residual Contaminant Levels are different than those contained in the Department's RCL Spreadsheet available at: <http://dnr.wi.gov/topic/brownfields.Professionals.html> - Residual Contaminant Levels (RCLs) were established in accordance with NR720.10 and NR720.12. Soil RCLs 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 actions and/or interim actions specified in s.NR724.01(1) occurred at this site.

C.5 Decommissioning of Remedial Systems – No remedial systems were installed as part of this site investigation.

C.6 Other

Attachment D/Maintenance Plan(s)

DKS Transport Services, LLC

N7349 548th Street
Menomonie, WI 54751
715-556-2604

C.2. Investigative Waste
INVOICE

9-8

20 *12*

CUSTOMER

JOB NAME

Bountown Oil % MATCO
709 Gylate St
La Crosse WI 54603

303 N Mill St
Brownstown WI

CASH

CHECK # _____

IN-HOUSE ACCOUNT

QUANTITY		DESCRIPTION	QTY.	UNIT PRICE		AMOUNT	
DATE	SHIPPED						
	<i>1</i>	<i>Mobilization</i>	<i>1</i>	<i>274</i>	<i>-</i>	<i>274</i>	<i>-</i>
	<i>2</i>	<i>Haul soil drums to Vedra landfill w Eau Claire WI</i>	<i>2</i>	<i>103</i>	<i>-</i>	<i>206</i>	<i>-</i>
	<i>2</i>	<i>Haul water drums to Vedra landfill w Eau Claire WI</i>	<i>2</i>	<i>40</i>	<i>10</i>	<i>80</i>	<i>20</i>
						TOTAL	<i>560</i> <i>20</i>

Due upon receipt of invoice.
1.5% per month Service Charge (18% Annual Percentage Rate) will be added to past due accounts.

SIGNATURE _____

17

Env. Waste Disposal
Reviewed & A/C
ak
(Signature)

Attachment D/Maintenance Plan(s)

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

D.2 Location map(s) which show(s) cap area

D.3 Photographs

D.4 Inspection log

D.1 Description of Maintenance Action(s)

CAP MAINTENANCE PLAN

October 20, 2015

Property Located at:
303 N Mill Street,
Browntown, WI

WDNR BRRTS# 03-23-001503

TAX KEY# 2311001160000

Introduction

This document is the Maintenance Plan for a concrete/gravel cap at the above-referenced property in accordance with the requirements of s. NR 724.13(2), Wisconsin Administrative Code. The maintenance activities relate to the existing cap occupying the area over the contaminated soil on-site.

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

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

Description of Contamination

Soil contaminated by Petroleum Volatile Organic Compounds (PVOCs) is located at a depth of 0-3 feet below ground surface in the area of the former pump island. The extent of the soil contamination is shown on Attachment D.2.

Description of the Cap to be maintained

The Cap consists of concrete (approximately 6 inches thick) and gravel in the area of the former pump island on the northern edge of the on-site building, as shown on Attachment D.2.

Cover Barrier Purpose

The concrete/gravel cap over the contaminated soil serves as a barrier to minimize exposure to soil exceeding NR720 Direct Contact standards. Based on the current and future use of the property, the barrier should function as intended unless disturbed.

Annual Inspection

The concrete/gravel cap overlying the contaminated soil and as depicted in Attachment D.2 will be inspected once a year, normally in the spring after all snow and ice is gone, for deterioration, cracks and other potential problems that can cause exposure to underlying soils through the concrete and gravel. The inspections will be performed by the property owner or their designated representative. The inspections will be performed to evaluate damage due to settling, exposure to the weather, wear from traffic, increasing age and other factors. Any area where soils have become or are likely to become exposed and where infiltration from the surface will not be effectively minimized will be documented. A log of the inspections and any repairs will be maintained by the property owner and is included as Form 4400-305 Continuing Obligations and Maintenance Log. The log will include recommendations for necessary repair of any areas where underlying soils are exposed and where infiltration from the surface will not be effectively minimized. Once repairs are completed, they will be documented in the inspection log. A copy of the inspection log will be kept at the address of the property owner and available for submittal or inspection by Wisconsin Department of Natural Resources ("WDNR") representatives upon their request.

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

Maintenance Activities

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

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

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

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

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

Amendment or Withdrawal of Maintenance Plan

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

Contact Information

October 2015

Current Site Owner and Operator:

John Sigafus
P.O. Box 187
Browntown, WI 53522
(608) 966-3312

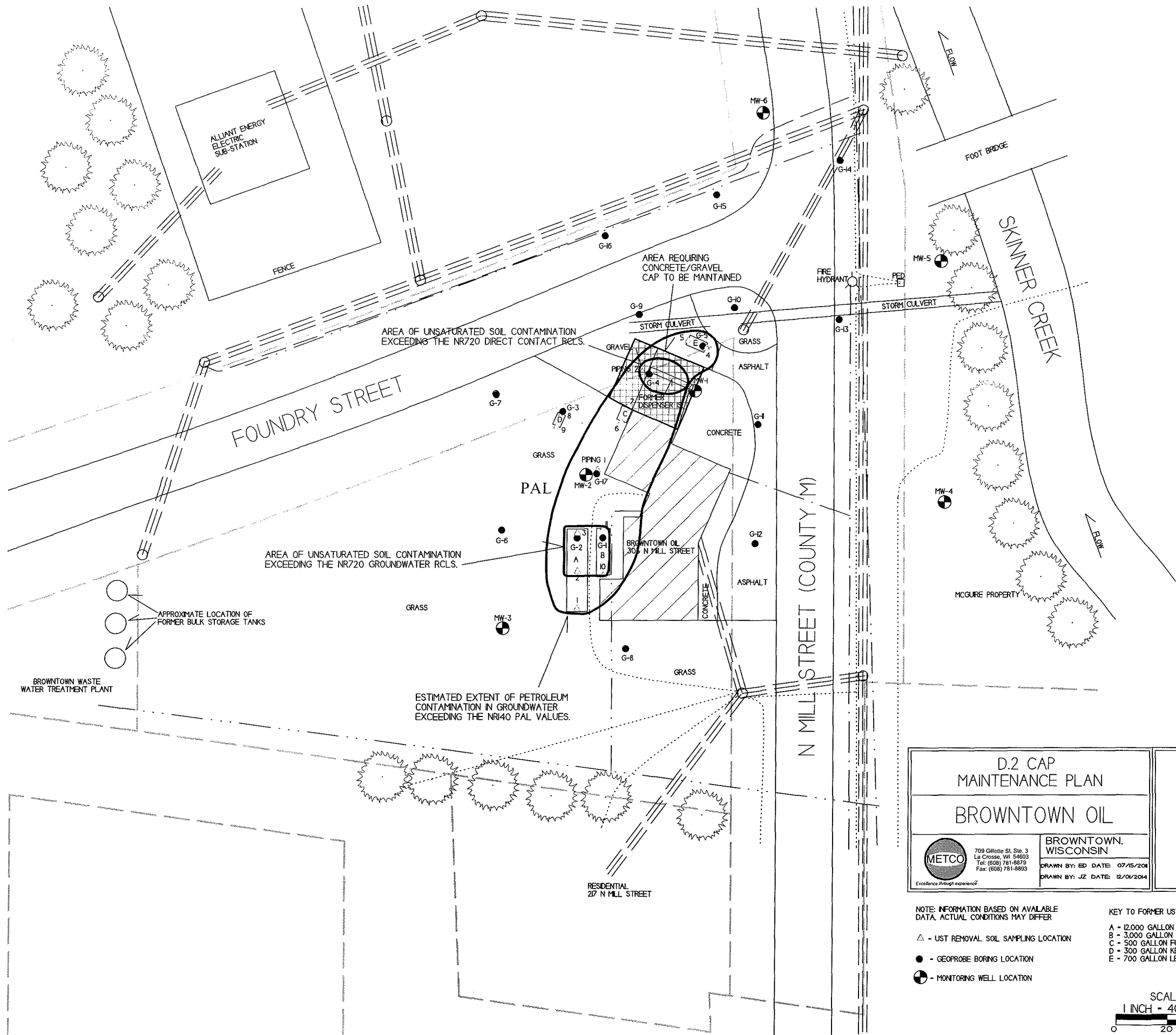
Signature: _____
(DNR may request signature of affected property owners, on a case-by-case basis)

Consultant:

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

WDNR:

Will Meyers
3911 Fish Hatchery Road
Fitchburg, WI 53711
(608) 273-5613



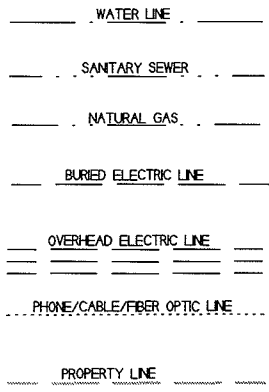
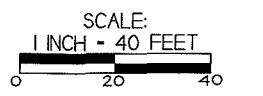
D.2 CAP MAINTENANCE PLAN	
BROWNTOWN OIL	
 <small>709 Gillette St. Ste. 3 La Crosse, WI 54603 Tel: (608) 781-8879 Fax: (608) 781-8893</small>	BROWNTOWN, WISCONSIN
	<small>DRAWN BY: ED DATE: 07/15/2014 DRAWN BY: JZ DATE: 12/01/2014</small>

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

- ▲ - UST REMOVAL SOIL SAMPLING LOCATION
- - GEOPROBE BORING LOCATION
- ⊙ - MONITORING WELL LOCATION

KEY TO FORMER UST'S

- A - 12,000 GALLON LEADED GASOLINE
- B - 3,000 GALLON UNLEADED GASOLINE
- C - 500 GALLON FUEL OIL
- D - 300 GALLON KEROSENE
- E - 700 GALLON LEADED GASOLINE





10.11.2011 11.09

113 Photographs



10 11. 2011 11 10

D. J. Photographs



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

Activity (Site) Name Browntown Oil	BRRTS No. 03-23-001503
--	----------------------------------

Inspections are required to be conducted (see closure approval letter): <input checked="" type="radio"/> annually <input type="radio"/> semi-annually <input type="radio"/> other – specify _____	When submittal of this form is required, submit the form electronically to the DNR project manager. An electronic version of this filled out form, or a scanned version may be sent to the following email address (see closure approval letter): <p style="text-align: center;">will.myers@wi.gov</p>
--	---

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

Attachment E/Monitoring Well Information

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

Attachment F/Source Legal Documents

F.1 Deeds – Source Property

F.2 Certified Survey Map

F.3 Verification of Zoning

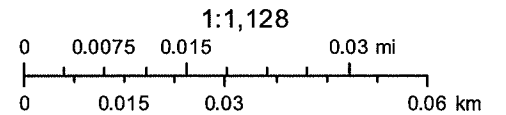
F.4 Signed Statement

ArcGIS Web Map



October 22, 2015

- PLSS Townships
- Parcels
- PLSS Sections
- Municipalities



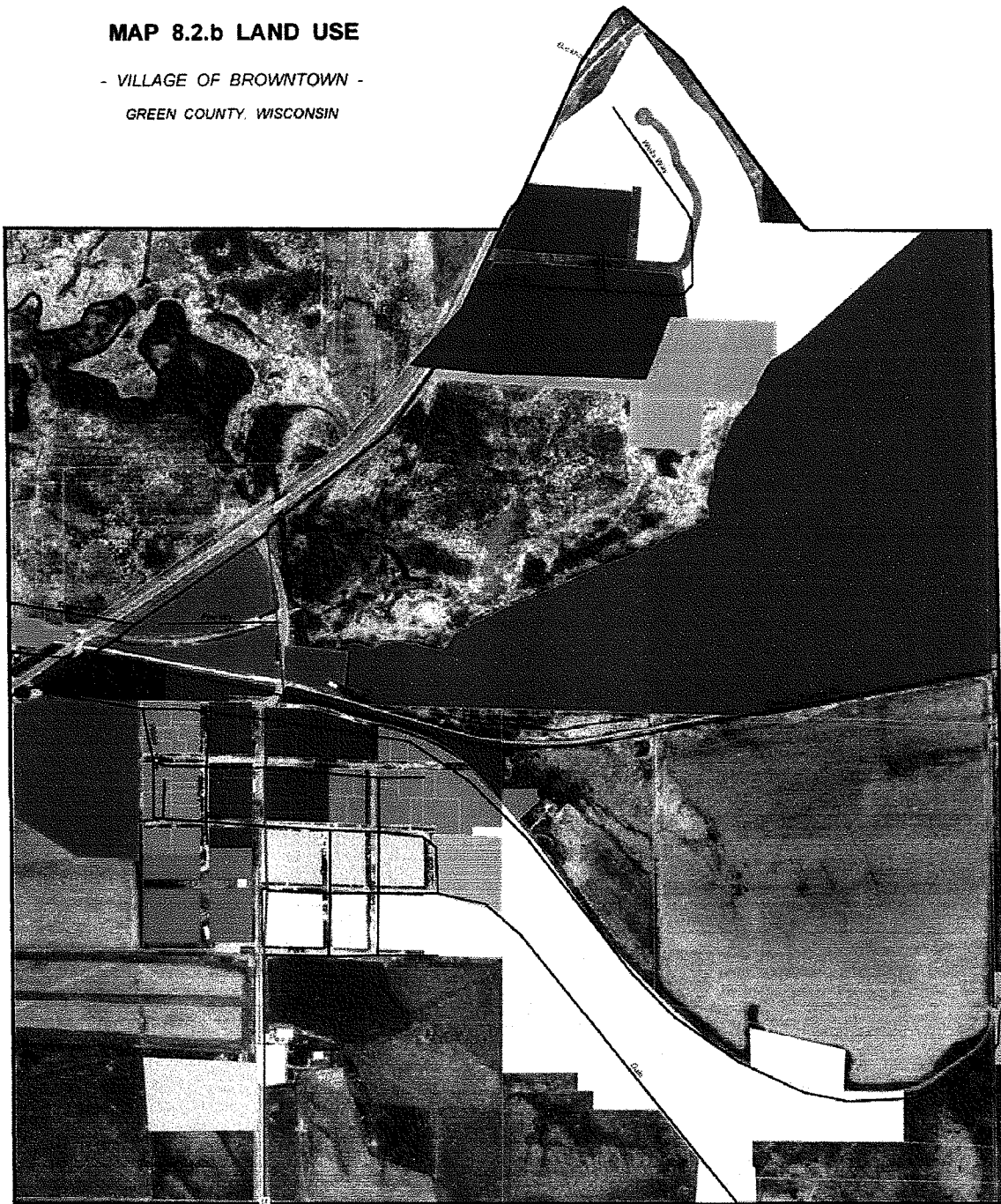
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and

F.2 Certified Survey Map

F.3. Verification of Zoning

MAP 8.2.b LAND USE

- VILLAGE OF BROWNTOWN -
GREEN COUNTY, WISCONSIN



SOUTHWESTERN WISCONSIN
REGIONAL PLANNING COMMISSION
719 Pioneer Tower
1 University Plaza
Platteville, WI 53818

June 20, 2005

Legend

Village of Browntown	Residential - 3
Sections	Commercial
State Roads	Industrial - Light M-1
County Roads	Industrial - Heavy M-2
Local Roads	Public Facility
Land Use	Conservancy
Agriculture - Open Space	Recreation
Small Parcels	Park - Local
Residential - 1	Park - State
Residential - 2	Water

1 inch equals 0.11 miles



This map is neither a legally recorded map nor a technical survey and is not intended to be one. SWWRPC is not responsible for any inaccuracies herein contained.

F.4. Signed Statement

WDNR BRRTS Case #: 03-23-001503

WDNR Site Name: Browntown Oil

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:

John Sigafus
(print name/title)

John Sigafus
(signature) Oct. 26-15
(date)

Attachment G/Notification to Owners of Impacted Properties

G.1 Deeds – Other Impacted Properties – No other properties were impacted.

G.2 Certified Survey Map – No other properties were impacted.

G.3 Verification of Zoning – No other properties were impacted.

G.4 Signed Statement – No other properties were impacted.