State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
1300 W. Clairemont Ave.
Eau Claire WI 54701

Tony Evers, Governor
Preston D. Cole, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

May 19, 2021

Ms. Annie Maas
735 Old Hwy 51
Mosinee, WI 54455

KEEP THIS LEGAL DOCUMENT WITH YOUR PROPERTY RECORDS

SUBJECT: Case Closure with Continuing Obligations - Mosinee Dry Cleaners
735 Old Hwy 51 N, Mosinee
BRRTS # 02-37-552230
FID # 737046090

Dear Ms. Maas:

The Wisconsin Department of Natural Resources (DNR) is pleased to inform you that the Mosinee Dry Cleaners case identified above met the requirements of Wisconsin Administrative (Wis. Admin.) Code chs. NR 725-727 for case closure with continuing obligations (COs). COs are legal requirements to address potential exposure to remaining contamination. No further investigation or remediation is required at this time for the reported hazardous substance discharge and/or environmental pollution.

However, you, future property owners and occupants of the property must comply with the COs as explained in this letter, which may include maintaining certain features and notifying the DNR and obtaining approval before taking specific actions. You must provide this letter and all enclosures to anyone who purchases, rents or leases this property from you.

This case closure decision is issued under Wis. Admin. Code chs. NR 725-727 and is based on information received by the DNR to date. The DNR reviewed the case closure request for compliance with state laws and standards and determined the case closure request met the notification requirements of Wis. Admin. Code ch. NR 725, the response action goals of Wis. Admin. Code § NR 726.05(4), the case closure criteria of Wis. Admin. Code §§ NR 726.05, 726.09 and 726.11, and Wis. Admin. Code ch. NR 140.

The site was investigated for a discharge of hazardous substances from a dry-cleaning operation. Case closure is granted for the volatile organic compound contaminants analyzed during the site investigation, as documented in the case file. The site investigation and/or remedial action addressed soil, groundwater, and vapor intrusion. The remedial action consisted of a soil vapor extraction system being installed at the site. Contamination remains in soil below the existing building as shown on Figure B.2.b, Residual Soil Contamination 12/15/2020.

The case closure decision and COs required were based on the site being used for commercial purposes. The site is currently zoned commercial which meets non-industrial use under Wis. Admin. Code § NR 720.05 (5) for application of residual contaminant levels in soil.

SUMMARY OF CONTINUING OBLIGATIONS

COs are applied at the following locations:

Address (Mosinee, WI)	COs Applied	Date of Maintenance Plan(s)
735 Old Highway 51 (Source Property)	Soil Contamination Remains Cover Maintenance Required	N/A 12/17/2020

CLOSURE CONDITIONS

Closure conditions are legally required conditions which include both COs and other requirements for case closure (Wis. Stat. § 292.12 (2)). Under Wis. Stat. § 292.12 (5), you, any subsequent property owners and occupants of the property must comply with the closure conditions as explained in this letter. The property owner must notify occupants for any condition specified in this letter under Wis. Admin. Code §§ NR 726.15 (1) (b) and NR 727.05 (2). If an occupant is responsible for maintenance of any closure condition specified in this letter, you and any subsequent property owner must include the condition in the lease agreement under Wis. Admin. Code § NR 727.05 (3) and provide the maintenance plan to any occupant that is responsible.

DNR staff may conduct periodic pre-arranged inspections to ensure that the conditions included in this letter and the maintenance plan dated (12/17/2020) are met (Wis. Stat. § 292.11 (8)). If these requirements are not followed, the DNR may take enforcement action under Wis. Stat. ch. 292 to ensure compliance with the closure conditions.

SOIL

Continuing Obligations to Address Soil Contamination

Residual Soil Contamination (Wis. Admin. Code chs. NR 718, NR 500-599, and § NR 726.15 (2) (b), and Wis. Stat. ch. 289)

Soil contamination remains below the existing building as indicated on the enclosed map (Fig. B.2.b., Residual Soil Contamination, 12/15/2020). If soil in the location(s) shown on the map 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. If sampling confirms that contamination is present, the property owner or right-of-way holder at the time of excavation will need to determine if the material is considered solid waste and ensure that any storage, treatment or disposal complies with applicable standards and rules. Contaminated soil may be managed under Wis. Admin. Code ch. NR 718 with prior DNR approval. In addition, all current and future property owners, occupants and right-of-way holders need to be aware that excavation of the contaminated soil may pose an inhalation and direct contact hazard; special precautions may be needed to prevent a threat to human health.

Cover (Wis. Stat. § 292.12 (2) (a), Wis. Admin. Code §§ NR 724.13 (1) and (2), NR 726.15 (2) (d) and/or (e), NR 727.07 (1))
The building structure at the time of closure, as shown on the enclosed map (Fig. D.2, Location Map, 12/15/2021) shall be maintained in compliance with the enclosed maintenance plan, dated 12/15/2020. The purpose of the cover is to minimize the infiltration of water through contaminated soil that might otherwise pose a threat to human health.

To modify or replace a cover, the property owner must submit a request to the DNR under Wis. Admin. Code ch. NR 727. The DNR approval must be obtained before implementation. The replacement or modified cover must be

a structure of similar permeability or be protective of the revised use of the property until contaminant levels no longer exceed Wis. Admin. Code ch. NR 720 groundwater pathway residual contaminant levels (RCLs).

OTHER CLOSURE REQUIREMENTS

Maintenance Plan and Inspection Log (Wis. Admin. Code § NR 726.11 (2), NR 726.15 (1) (d), NR 727.05 (1) (b) 3., Wis. Admin. Code § NR 716.14 (2) for monitoring wells)
The property owner is required to comply with the enclosed maintenance plan dated 12/15/2021 for the cover to conduct inspections annually, and to use the inspection log (DNR Form 4400-305 or Form 4400-321 VMS Inspection Log) to document the required inspections. The maintenance plan and inspection log are to be kept up-to-date and the property owner shall submit the inspection log to the DNR only upon request using the RR Program Submittal Portal. See the DNR Notification Requirements section below for more information on how to access the Submittal Portal.

Limitations on Activities, Prior Approval Needed (Wis. Admin. Code §§ NR 724.13 (2) (h), NR 726.15 (2))
Certain activities are limited at closed sites to ensure that the cover will function as intended to prevent contact with any remaining contamination. The limitations on activities are identified in the enclosed maintenance plan(s). The following activities are prohibited on any portion of this property where the cover is required, without prior DNR approval.

- Removal of the existing barrier
- Replacement with another barrier
- Excavating or grading of the land surface
- Filling on capped or paved areas
- Plowing for agricultural cultivation
- Construction or placement of a building or other structure

Pre-Approval Required for Well Construction (Wis. Admin. Code § NR 812.09 (4) (w))
DNR approval is required before well construction or reconstruction for all sites identified as having residual contamination and/or COs. This requirement applies to private drinking water wells and high capacity wells. To obtain approval, the property owner is required to complete and submit Form 3300-254, Continuing Obligations/Residual Contamination Well Approval Application, to the DNR Drinking and Groundwater program's regional water supply specialist. A well driller can help complete this form. The form can be obtained online at dnr.wi.gov, search "3300-254." Additional casing may be necessary to help prevent contamination of the well.

DNR NOTIFICATION REQUIREMENTS

DNR Notification (Wis. Admin. Code §§ NR 727.07, NR 726.15 (2))
The property owner is required to notify the DNR at least 45 days before taking the following actions. The DNR may require additional investigation and/or cleanup actions if necessary, to be protective of human health and the environment.

- Before removing a cover or any portion of a cover
- Replacement with another barrier
- Excavating or grading of the land surface
- Filling on capped or paved areas
- Plowing for agricultural cultivation
- Construction or placement of a building or other structure

Send written notifications and inspection logs to the DNR using the RR Program Submittal Portal at dnr.wi.gov, search "RR submittal portal" (https://dnr.wi.gov/topic/Brownfields/Submittal.html). Questions on using this portal can be directed to the contact below or to the environmental program associate (EPA) for the regional DNR office. Visit dnr.wi.gov, search "RR contacts" and select the EPA tab (https://dnr.wi.gov/topic/Brownfields/Contact.html).

CLOSING

Site and case closure-related information can be found online in the Bureau for Remediation and Redevelopment Tracking System (BRRTS) on the Web (BOTW); go to dnr.wi.gov and search "BOTW." Use the BRRTS ID # found at the top of this letter. The site can also be found on the map view, Remediation and Redevelopment Sites Map (RRSM) by searching "RRSM."

Please be aware that the case may be reopened under Wis. Admin. Code § NR 727.13 if additional information indicates that contamination on or from the site poses a threat, or for a lack of compliance with a CO or closure requirement. Compliance with the maintenance plan is considered when evaluating the reopening criteria.

The DNR appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything stated in this letter, please contact DNR Project Manager, Matt Thompson, at 715-492-2304 or by email: matthewa.thompson@wisconsin.gov. If the project manager is not available, contact information can be found at dnr.wi.gov, search "RR contacts."

Sincerely,

Dave Rozeboom
West Central Region Team Supervisor
Remediation & Redevelopment Program

Enclosures:
- Fig. B.2.b., Residual Soil Contamination, 12/15/2021
- Attachment D, Maintenance Plan, 12/15/2021

cc: Andrew Delforge, adelforge@reiengineering.com

DRAWING FILE: P:\5800-5899\5890-Mosinee Dry Cleaners\dwg\5890-Residual Soil Contam.dwg LAYOUT: Residual Soil Contam PLOTTED: Dec 16, 2020 - 9:34am PLOTTED BY: nathanp

MOSINEE FLOWAGE

RIVER RD.

RAILROAD TRACKS

OLD HIGHWAY 51

MW2 MW3 MW4 MW5 MW6 MW7 MWI

GP-1 GP-2 GP-3 GP-4 GP-5 GP-6 GP-7

SVP1 SVP2 SVP3

PZI

B100 B200 B300 B400

VE-1 VE-2 VE-3

VP-1

SSI/SSI-A

SVE WELLS AND PIPING

SYSTEM TRAILER

EXISTING BUILDING

FORMER DRY CLEANING MACHINE

APPROXIMATE PROPOSED PARCEL SUBDIVISION

APPROXIMATE P/L

G

W

N

LEGEND

0 30

SCALE: 1" = 30'

- RESIDUAL SOIL CONTAMINATION
- SVE WELLS
- SOIL GAS PROBE LOCATION
- SOIL SAMPLE LOCATION
- PIEZOMETER
- VAPOR PROBE LOCATION
- NORTHERN ENVIRONMENTAL BORINGS
- MONITORING WELL
- GEOPROBE SOIL BORING
- G — UNDERGROUND GAS
- W — UNDERGROUND WATER

REI CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

MOSINEE DRY CLEANERS
735 HIGHWAY 51
MOSINEE, WISCONSIN 54455

FIGURE B.2.b: RESIDUAL SOIL CONTAMINATION

PROJECT No.	DRAWN BY:	DATE:
5890	NAP	12/15/2020

REI Engineering, INC.

D.1
COVER MAINTENANCE PLAN

12/17/20
Property Located at:
735 Old Highway 51
Mosinee, WI 54455
FID#737046090, BRRTS #02-37-552230
Certified Survey Map #14756, City of Mosinee, Marathon County, WI
Parcel #251.4.2707.285.9996

Introduction

This document is the Maintenance Plan for a cover 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 building 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 West Central regional office
- BRRTS on the Web (DNR's internet based data base of contaminated sites): dnr.wi.gov/botw/SetUpBasicSearchForm.do
- GIS Registry PDF file for further information on the nature and extent of contamination: dnrmaps.wisconsin.gov/imf/imf.jsp?site=brrts2; and
- The DNR project manager for Marathon County.

Description of Contamination

Soil contaminated by tetrachloroethylene is located at a depth of 1 foot beneath the building. The extent of the soil contamination is shown on the attached D.2

Description of the Cover to be maintained

The Cover consists of the existing Mosinee Cleaners building. It is located in the north center of the property as shown on the **D.2**

Cover Barrier Purpose

The existing building over the contaminated soil will act as a partial infiltration barrier to minimize future soil-to-groundwater contamination migration that would violate the groundwater standards in ch. NR 140, Wisconsin Administrative Code. Based on the current and future use of the property, the barrier should function as intended unless disturbed.

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 cover 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

December 2020

Site Owner and Operator: Annie Maas
735 Old Highway 51
Mosinee, WI 54455
Signature: _____

Consultant: Andrew Delforge
4080 North 20th Avenue
Wausau, WI 54401
(715) 675-9784

WDNR: Matthew Thompson
1300 West Clairemont Avenue
Eau Claire, WI 54701
(715) 492-2304

MOSINEE FLOWAGE

RIVER RD.

RAILROAD TRACKS

MW5

MW4

MW6

MW3

MW7

MW1

MW2

GP-1

GP-2

GP-3

GP-4

GP-5

GP-6

GP-7

SVP1

SVP2

SVP3

B100

B200

B300

B400

VE-1

VE-2

VE-3

PZI

SSI/SSI-A

SVE WELLS AND PIPING

SYSTEM TRAILER

EXISTING BUILDING

FORMER DRY CLEANING MACHINE

GRASS

ASPHALT

APPROXIMATE P/L

TO BE MAINTAINED

OLD HIGHWAY 51

N

LEGEND

0 30

SCALE: 1" = 30'

RESIDUAL SOIL CONTAMINATION

SVE WELLS

SOIL GAS PROBE LOCATION

SOIL SAMPLE LOCATION

PIEZOMETER

VAPOR PROBE LOCATION

NORTHERN ENVIRONMENTAL BORINGS

MONITORING WELL

GEOPROBE SOIL BORING

G UNDERGROUND GAS

W UNDERGROUND WATER

REI CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

MOSINEE DRY CLEANERS
735 HIGHWAY 51
MOSINEE, WISCONSIN 54455

FIGURE D.2 : LOCATION MAP

PROJECT No.	DRAWN BY:	DATE:
5890	NAP	12/15/2020

REI Engineering, INC.

DRAWING FILE: P:\5800-5899\5890-Mosinee Dry Cleaners\dwg\5890-Location Map.dwg LAYOUT: LOCATION MAP PLOTTED: Dec 18, 2020 - 11:53AM PLOTTED BY: NATHANP

REI
CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING

Building, view from Old Highway 51

East side of building, view to west

Rear of building and property line adjoining railroad right of way

View to west side of building from Old Highway 51

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Continuing Obligations Inspection and Maintenance Log

Form 4400-305 (R 7/20)

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 Public 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	BRRTS No.

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

- ◯ annually
- ◯ semi-annually
- ◯ other – specify ______________________

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

Inspection Date	Inspector Name	Item	Describe the condition of the item that is being inspected	Recommendations for repair or maintenance	Previous recommendations implemented?	Photographs taken and attached?
		☐ monitoring well ☐ cover/barrier for soil ☐ sediment cap ☐ other:			◯ Y ◯ N	◯ Y ◯ N
		☐ monitoring well ☐ cover/barrier for soil ☐ sediment cap ☐ other:			◯ Y ◯ N	◯ Y ◯ N
		☐ monitoring well ☐ cover/barrier for soil ☐ sediment cap ☐ other:			◯ Y ◯ N	◯ Y ◯ N
		☐ monitoring well ☐ cover/barrier for soil ☐ sediment cap ☐ other:			◯ Y ◯ N	◯ Y ◯ N
		☐ monitoring well ☐ cover/barrier for soil ☐ sediment cap ☐ other:			◯ Y ◯ N	◯ Y ◯ N
		☐ monitoring well ☐ cover/barrier for soil ☐ sediment cap ☐ other:			◯ Y ◯ N	◯ Y ◯ N

{Click to Add/Edit Image} Date added:

Title:

{Click to Add/Edit Image} Date added:

Title:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☒ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Marathon		MW1

Latitude / Longitude (see instructions): ____ N ____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 735 Old Highway 51

Well City, Village or Town	Well ZIP Code
Mosinee	54455

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Site Closure	

2. Facility / Owner Information

Facility Name: Mosinee Cleaners
Facility ID (FID or PWS): 02-37-552230
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mosinee Dry Cleaners
Mailing Address of Present Owner: 735 Old Highway 51

City of Present Owner	State	ZIP Code
Mosinee	WI	54455

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 1/3/12
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type:
☒ Unconsolidated Formation ☒ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
19.53	2

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
	9.53

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	13.01

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left in place?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Holeplug Bentonite	Surface	19.53	2/3 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Paul Bushar - REI		5/5/21

Street or Route	Telephone Number
4080 North 20th Avenue	(715) 675-9784

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401		5/10/21

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

■ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ■ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Marathon		MW2

Latitude / Longitude (see instructions): ____ N ____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 735 Old Highway 51

Well City, Village or Town	Well ZIP Code
Mosinee	54455

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Site Closure	

2. Facility / Owner Information

Facility Name: Mosinee Cleaners
Facility ID (FID or PWS): 02-37-552230
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mosinee Dry Cleaners
Mailing Address of Present Owner: 735 Old Highway 51

City of Present Owner	State	ZIP Code
Mosinee	WI	54455

3. Filled & Sealed Well / Drillhole / Borehole Information

■ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 1/3/12
If a Well Construction Report is available, please attach.

Construction Type:
■ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type:
■ Unconsolidated Formation ■ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
19.47	2

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
	9.47

Was well annular space grouted? ☐ Yes ■ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	13.65

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	■ N/A
Liner(s) removed?	☐ Yes	☐ No	■ N/A
Liner(s) perforated?	☐ Yes	☐ No	■ N/A
Screen removed?	☐ Yes	■ No	☐ N/A
Casing left in place?	■ Yes	☐ No	☐ N/A
Was casing cut off below surface?	■ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	■ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	■ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	■ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	■ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
■ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ■ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
■ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Holeplug Bentonite	Surface	19.47	2/3 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Paul Bushar - REI		5/5/21

Street or Route	Telephone Number
4080 North 20th Avenue	(715) 675-9784

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401		5/10/21

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

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Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ■ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Marathon	_ _ _ _ _ _	MW3

Latitude / Longitude (see instructions) _____ N _____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 735 Old Highway 51

Well City, Village or Town	Well ZIP Code
Mosinee	54455

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Site Closure	_ _ _ _ _ _

2. Facility / Owner Information

Facility Name: Mosinee Cleaners
Facility ID (FID or PWS): 02-37-552230
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mosinee Dry Cleaners
Mailing Address of Present Owner: 735 Old Highway 51

City of Present Owner	State	ZIP Code
Mosinee	WI	54455

3. Filled & Sealed Well / Drillhole / Borehole Information

■ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 1/3/12
If a Well Construction Report is available, please attach.

Construction Type:
■ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify): _____

Formation Type:
■ Unconsolidated Formation ■ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
19.43	2

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
	9.43

Was well annular space grouted? ☐ Yes ■ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	12.67

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	■ N/A
Liner(s) removed?	☐ Yes	☐ No	■ N/A
Liner(s) perforated?	☐ Yes	☐ No	■ N/A
Screen removed?	☐ Yes	■ No	☐ N/A
Casing left in place?	■ Yes	☐ No	☐ N/A
Was casing cut off below surface?	■ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	■ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	■ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	■ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	■ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
■ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ■ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
■ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Holeplug Bentonite	Surface	19.43	2/3 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Paul Bushar - REI		5/5/21

Street or Route	Telephone Number
4080 North 20th Avenue	(715) 675-9784

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401		5/10/21

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

■ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ■ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Marathon		MW4

Latitude / Longitude (see instructions): ____ N ____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 735 Old Highway 51

Well City, Village or Town	Well ZIP Code
Mosinee	54455

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Site Closure	

3. Filled & Sealed Well / Drillhole / Borehole Information

■ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 1/3/12

If a Well Construction Report is available, please attach.

Construction Type:
■ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type:
■ Unconsolidated Formation ■ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
19.54	2
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
	9.54

Was well annular space grouted? ☐ Yes ■ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	11.79

2. Facility / Owner Information

Facility Name: Mosinee Cleaners
Facility ID (FID or PWS): 02-37-552230
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mosinee Dry Cleaners
Mailing Address of Present Owner: 735 Old Highway 51

City of Present Owner	State	ZIP Code
Mosinee	WI	54455

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	■ N/A
Liner(s) removed?	☐ Yes	☐ No	■ N/A
Liner(s) perforated?	☐ Yes	☐ No	■ N/A
Screen removed?	☐ Yes	■ No	☐ N/A
Casing left in place?	■ Yes	☐ No	☐ N/A
Was casing cut off below surface?	■ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	■ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	■ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	■ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	■ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
■ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ■ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
■ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Holeplug Bentonite	Surface	19.54	2/3 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Paul Bushar - REI		5/5/21

Street or Route	Telephone Number
4080 North 20th Avenue	(715) 675-9784

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401	PB	5/10/21

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☒ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Marathon	_ _ _ _ _	MW5

Latitude / Longitude (see instructions): _____ N / _____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 735 Old Highway 51

Well City, Village or Town	Well ZIP Code
Mosinee	54455

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Site Closure	_ _ _ _ _

2. Facility / Owner Information

Facility Name: Mosinee Cleaners
Facility ID (FID or PWS): 02-37-552230
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mosinee Dry Cleaners
Mailing Address of Present Owner: 735 Old Highway 51

City of Present Owner	State	ZIP Code
Mosinee	WI	54455

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 7/9/13

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☒ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
19.04	2

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
	9.04

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	10.81

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left in place?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Holeplug Bentonite	Surface	19.04	2/3 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Paul Bushar - REI		5/5/21

Street or Route	Telephone Number
4080 North 20th Avenue	(715) 675-9784

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401		5/10/21

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

■ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ■ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Marathon	_ _ _ _ _	MW6

Latitude / Longitude (see instructions) _____ N _____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 735 Old Highway 51

Well City, Village or Town	Well ZIP Code
Mosinee	54455

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Site Closure	_ _ _ _ _

3. Filled & Sealed Well / Drillhole / Borehole Information

■ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 7/9/13

If a Well Construction Report is available, please attach.

Construction Type:
■ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
■ Unconsolidated Formation ■ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
19.14	2

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
	9.14

Was well annular space grouted? ☐ Yes ■ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	12.15

2. Facility / Owner Information

Facility Name: Mosinee Cleaners

Facility ID (FID or PWS): 02-37-552230

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: Mosinee Dry Cleaners

Mailing Address of Present Owner: 735 Old Highway 51

City of Present Owner	State	ZIP Code
Mosinee	WI	54455

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	■ N/A
Liner(s) removed?	☐ Yes	☐ No	■ N/A
Liner(s) perforated?	☐ Yes	☐ No	■ N/A
Screen removed?	☐ Yes	■ No	☐ N/A
Casing left in place?	■ Yes	☐ No	☐ N/A
Was casing cut off below surface?	■ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	■ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	■ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	■ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	■ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
■ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ■ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
■ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Holeplug Bentonite	Surface	19.14	2/3 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Paul Bushar - REI		5/5/21

Street or Route	Telephone Number
4080 North 20th Avenue	(715) 675-9784

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401		5/10/21

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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■ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ■ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Marathon	_ _ _ _ _	MW7

Latitude / Longitude (see instructions) ____ N ____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 735 Old Highway 51

Well City, Village or Town	Well ZIP Code
Mosinee	54455

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Site Closure	_ _ _ _ _

2. Facility / Owner Information

Facility Name: Mosinee Cleaners
Facility ID (FID or PWS): 02-37-552230
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mosinee Dry Cleaners
Mailing Address of Present Owner: 735 Old Highway 51

City of Present Owner	State	ZIP Code
Mosinee	WI	54455

3. Filled & Sealed Well / Drillhole / Borehole Information

■ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 7/10/13
If a Well Construction Report is available, please attach.

Construction Type:
■ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type:
■ Unconsolidated Formation ■ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
19.16	2
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
	9.16

Was well annular space grouted? ☐ Yes ■ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	12.93

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	■ N/A
Liner(s) removed?	☐ Yes	☐ No	■ N/A
Liner(s) perforated?	☐ Yes	☐ No	■ N/A
Screen removed?	☐ Yes	■ No	☐ N/A
Casing left in place?	■ Yes	☐ No	☐ N/A
Was casing cut off below surface?	■ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	■ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	■ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	■ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	■ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
■ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ■ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
■ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Holeplug Bentonite	Surface	19.16	2/3 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Paul Bushar - REI		5/5/21

Street or Route	Telephone Number
4080 North 20th Avenue	(715) 675-9784

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401		5/10/21

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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■ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ■ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Marathon		PZ1

Latitude / Longitude (see instructions) ____ N ____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 735 Old Highway 51

Well City, Village or Town	Well ZIP Code
Mosinee	54455

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Site Closure	

2. Facility / Owner Information

Facility Name: Mosinee Cleaners
Facility ID (FID or PWS): 02-37-552230
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mosinee Dry Cleaners
Mailing Address of Present Owner: 735 Old Highway 51

City of Present Owner	State	ZIP Code
Mosinee	WI	54455

3. Filled & Sealed Well / Drillhole / Borehole Information

■ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 7/10/13
If a Well Construction Report is available, please attach.

Construction Type:
■ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type:
■ Unconsolidated Formation ■ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
39.01	2

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
	34.01

Was well annular space grouted? ☐ Yes ■ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	13.01

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	■ N/A
Liner(s) removed?	☐ Yes	☐ No	■ N/A
Liner(s) perforated?	☐ Yes	☐ No	■ N/A
Screen removed?	☐ Yes	■ No	☐ N/A
Casing left in place?	■ Yes	☐ No	☐ N/A
Was casing cut off below surface?	■ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	■ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	■ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	■ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	■ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
■ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ■ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
■ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Holeplug Bentonite	Surface	39.01	1.5 bags	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Paul Bushar - REI		5/5/21

Street or Route	Telephone Number
4080 North 20th Avenue	(715) 675-9784

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401	RPA	5/10/21

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☒ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Marathon		VE1

Latitude / Longitude (see instructions): ____ N ____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 735 Old Highway 51

Well City, Village or Town	Well ZIP Code
Mosinee	54455

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Site Closure	

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 4/2/18

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type:
☒ Unconsolidated Formation ☒ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
12	2

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
	7

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	NA - Vapor Extraction Well

2. Facility / Owner Information

Facility Name: Mosinee Cleaners
Facility ID (FID or PWS): 02-37-552230
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mosinee Dry Cleaners
Mailing Address of Present Owner: 735 Old Highway 51

City of Present Owner	State	ZIP Code
Mosinee	WI	54455

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left in place?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Holeplug Bentonite	Surface	12	1/3 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Paul Bushar - REI		5/5/21

Street or Route	Telephone Number
4080 North 20th Avenue	(715) 675-9784

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401		5/10/21

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

■ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ■ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Marathon		VE2

Latitude / Longitude (see instructions): ____ N ____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 735 Old Highway 51

Well City, Village or Town	Well ZIP Code
Mosinee	54455

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Site Closure	

2. Facility / Owner Information

Facility Name: Mosinee Cleaners
Facility ID (FID or PWS): 02-37-552230
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mosinee Dry Cleaners
Mailing Address of Present Owner: 735 Old Highway 51

City of Present Owner	State	ZIP Code
Mosinee	WI	54455

3. Filled & Sealed Well / Drillhole / Borehole Information

■ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 4/2/18

If a Well Construction Report is available, please attach.

Construction Type:
■ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify):

Formation Type:
■ Unconsolidated Formation ■ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
10	2

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
	5

Was well annular space grouted? ☐ Yes ■ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	NA - Vapor Extraction Well

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	■ N/A
Liner(s) removed?	☐ Yes	☐ No	■ N/A
Liner(s) perforated?	☐ Yes	☐ No	■ N/A
Screen removed?	☐ Yes	■ No	☐ N/A
Casing left in place?	■ Yes	☐ No	☐ N/A
Was casing cut off below surface?	■ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	■ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	■ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	■ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	■ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
■ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ■ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
■ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Holeplug Bentonite	Surface	10	1/3 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Paul Bushar - REI		5/5/21

Street or Route	Telephone Number
4080 North 20th Avenue	(715) 675-9784

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401		5/10/21

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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■ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ■ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Marathon		VE3

Latitude / Longitude (see instructions): ____ N ____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 735 Old Highway 51

Well City, Village or Town	Well ZIP Code
Mosinee	54455

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Site Closure	

2. Facility / Owner Information

Facility Name: Mosinee Cleaners
Facility ID (FID or PWS): 02-37-552230
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mosinee Dry Cleaners
Mailing Address of Present Owner: 735 Old Highway 51

City of Present Owner	State	ZIP Code
Mosinee	WI	54455

3. Filled & Sealed Well / Drillhole / Borehole Information

■ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 4/2/18

If a Well Construction Report is available, please attach.

Construction Type:
■ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify):

Formation Type:
■ Unconsolidated Formation ■ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
10	2

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
	5

Was well annular space grouted? ☐ Yes ■ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	NA - Vapor Extraction Well

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	■ N/A
Liner(s) removed?	☐ Yes	☐ No	■ N/A
Liner(s) perforated?	☐ Yes	☐ No	■ N/A
Screen removed?	☐ Yes	■ No	☐ N/A
Casing left in place?	■ Yes	☐ No	☐ N/A
Was casing cut off below surface?	■ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	■ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	■ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	■ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	■ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
■ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ■ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
■ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Holeplug Bentonite	Surface	10	1/3 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Paul Bushar - REI		5/5/21

Street or Route	Telephone Number
4080 North 20th Avenue	(715) 675-9784

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401	[signature]	5/10/21

DNR Use Only

Date Received	Noted By

Comments:

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
1300 W. Clairemont Ave.
Eau Claire WI 54701

Tony Evers, Governor
Preston D. Cole, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

April 29, 2021

Ms. Annie Maas
735 Old Hwy 51
Mosinee, WI 54455

Subject: Remaining Actions Needed for Case Closure under Wis. Adm. Code chs. NR 700-754
Mosinee Dry Cleaners, 735 Old Hwy 51 N, Mosinee
BRRTS # 02-37-552230 FID # 737046090

Dear Ms. Maas:

On April 15, 2021, the Department of Natural Resources (DNR) reviewed your request for closure of the case described above. The DNR reviews environmental remediation cases for compliance with applicable local, state and federal laws. The following actions are required prior to the DNR granting you case closure in compliance with Wis. Stat. ch. 292 and Wis. Adm. Code chs. NR 700-754. Upon completion of these actions, closure approval will be provided. Pursuant to Wis. Adm. Code § NR 726.09 (2) (g), you are required to provide this information to the DNR within 120 days of the date of this letter.

Remaining Actions Needed

Monitoring Well or Remedial System Piping Filling and Sealing
The monitoring wells and soil vapor extraction system wells at the site must be properly filled and sealed in accordance with Wis. Adm. Code ch. NR 141. Documentation of filling and sealing for all wells and boreholes must be submitted to Matt Thompson on DNR Form 3300-005. To download the form, go online at dnr.wi.gov and search “form 3300-005”.

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

If any changes to the closure request are still outstanding, submit all changes to the original closure request. Only revisions or updates need to be submitted.

Listing on Database

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

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

If you have any questions regarding this letter, please contact me at 715-492-2304 or by email at matthewa.thompson@wiscosnin.gov.

Sincerely,

Matt Thompson
Hydrogeologist
Remediation & Redevelopment Program

cc: Andrew Delforge, REI Engineering Inc.

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

Case Closure

SUBMIT AS UNBOUND PACKAGE IN THE ORDER SHOWN

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

Site Information

BRRTS No.	VPLE No.
02-37-552230	

Parcel ID No.: 2707-285-9996

FID No.	WTM Coordinates X	WTM Coordinates Y
737046090	544568	480149

BRRTS Activity (Site) Name: Mosinee Dry Cleaners

WTM Coordinates Represent: ☐ Source Area ☒ Parcel Center

Site Address	City	State	ZIP Code
735 Old Highway 51	Mosinee	WI	54455

Acres Ready For Use: 0.3

Responsible Party (RP) Name: Annie Maas

Company Name: Mosinee Cleaners

Mailing Address	City	State	ZIP Code
735 Old Highway 51	Mosinee	WI	54455

Phone Number	Email
(715) 693-2312	

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

Environmental Consultant Name: Andrew Delforge

Consulting Firm: REI Engineering, Inc.

Mailing Address	City	State	ZIP Code
4080 North 20th Avenue	Wausau	WI	54401

Phone Number	Email
(715) 675-9784	adelforge@reiengineering.com

Fees and Mailing of Closure Request

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

   ☒ $1,050 Closure Fee

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

   ☒ $300 Database Fee for Soil

   Total Amount of Payment $ $1,350.00

   ☐ Resubmittal, Fees Previously Paid

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

Site Summary

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

1. General Site Information and Site History

A. Site Location: Describe the physical location of the site, both generally and specific to its immediate surroundings.
The site is located in an area of scattered commercial and rural residential properties.

B. Prior and current site usage: Specifically describe the current and historic occupancy and types of use.
The property was developed in 1950 as a laundry, dry cleaning was conducted for a period of time which ended in approximately 2010. The site remains in use as a laundry.

C. Current zoning (e.g., industrial, commercial, residential) for the site and for neighboring properties, and how verified (Provide documentation in Attachment G).
The property is zoned commercial as verified by Marathon County and City of Mosinee.

D. Describe how and when site contamination was discovered.
A limited Phase II site investigation was conducted in 2008 by Northern Environmental. Four (4) geoprobe borings were installed around the perimeter of the building. Soil contamination for tetrachloroethylene was detected in three (3) of the four (4) borings.

E. Describe the type(s) and source(s) or suspected source(s) of contamination.
Tetrachloroethylene contamination is present in the soil as a result of incidental spills from the previous dry cleaning operations which occurred at the site. Uses of the property have consisted entirely of laundry operations, and dry cleaning utilizing a sealed system. The property has been serviced by City of Mosinee sewer and water system since development. Based on the current and historic land use, it appears highly unlikely that perfluoroalkyl and polyfluoroalky substances were historically or are presently produced, used, handled or stored at the site.

F. Other relevant site description information (or enter Not Applicable).
There is no other relevant site information.

G. List BRRTS activity/site name and number for BRRTS activities at this source property, including closed cases.
The Mosinee Dry Cleaners site is the only BRRTS activity associated with the property.

H. List BRRTS activity/site name(s) and number(s) for all properties immediately adjacent to (abutting) this source property.
The Gordy's 76 Leased Site is located immediately east of the subject property.

2. General Site Conditions

A. Soil/Geology

i. Describe soil type(s) and relevant physical properties, thickness of soil column across the site, vertical and lateral variations in soil types.
Native soils consist of fine to medium grained sand to a depth of approximately ten (10) feet below land surface (bls) where medium to coarse grained sand and gravel is present to the weathred bedrock surface at approximately fourteen (14) feet bls. Competent bedrock is present at fourteen (14) to sixteen (16) feet bls.

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 areas on site.

iii. Describe the depth to bedrock, bedrock type, competency and whether or not it was encountered during the investigation.
Weathered granite bedrock is present at depths varying from eleven (11) to fourteen (14) feet bls, with competent gratne varying between fourteen (14) and sixteen (16) feet bls.

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 entire parcel, outside of the building footprint, is paved in asphalt.

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.

Groundwater is present within the bedrock with a potentiometric surface of approximately twelve (12) feet bls. Approximately 2.5 feet of variation has been observed in the groundwater elevation throughout the course of the project.

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

Groundwater flow at the water table has been consistent to the northwest towards the Wisconsin River. All flow is within the fractured bedrock. Groundwater flow at depth is assumed to be similar.

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

Hydraulic conductivity is estimated at 0.01 feet per hour based on testing in the area, and published values. Given the average hydraulic gradient, the flow rate has been estimated at approximately 16 feet per year.

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 site and vicinity are serviced by City of Mosinee municipal water service. One potable well is isolated from the site and municipal system at 775 River Road. The residence is across Bull Junior Creek, approximately 600 north of the subject property. According to the well record, the borehole is one hundred (100) feet deep with bedrock at eighteen (18) feet. The casing extends to forty (40) feet. The well was sampled on October 28, 2013 and was non-detect for all VOCs.

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.

August 26, 2008 Northern Environmental conducts site scoping/initial Phase II investigation
August 29, 2008 Notification, results submitted to WDNR
September 3, 2008 WDNR submits Responsible Party letter to Annie Mass
October 2, 2008 Northern Environmental submits Phase II Environmental Site Assessment results letter to WDNR
December 31, 2009 REI submits proposal/work plan
October 4, 2011 REI retained to complete investigation
October 10, 2011 WDNR approves REI consultant selection
November 11, 2011 REI on site to oversee the installation of geoprobes GP1-GP5
January 3, 2012 REI on site to oversee the installation of monitoring wells MW1-MW4
January 23, 2012 REI on site to develop, sample and survey MW1-MW4
April 9, 2012 REI on site to install permanent vapor sample point VP1
April 9, 2012 REI on site to sample monitoring wells
April 23, 2012 REI on site to collect sub-slab vapor sample (VP1)
May 16, 2012 Site Investigation Report submitted
July 9-10, 2013 Monitoring wells MW5, MW6, MW7 and PZ1 installed
July 16, 2013 MW5, MW6, MW7, PZ1 developed and surveyed, monitoring well network sampled
October 28, 2013 Monitoring well network sampled
November 1, 2013 Geoprobes GP6, and GP7 installed
December 18, 2013 Site Investigation Addendum submitted
April 30, 2014 Monitoring well network sampled
July 17, 2014 Monitoring well network sampled
October 7, 2014 Monitoring well network sampled
July 17, 2015 Soil vapor probes installed and sampled
August 5, 2015 Soil vapor probe summary report submitted
May 10, 2016 Site Investigation approved
June 9, 2016 Remediation Proposal submitted
August 29, 2016 Remedial Action and consultant selection approved
April 2, 2018 Soil Vapor Extraction wells installed
June 6-June 10, 2019 SVE system installed
June 10, 2019 System sampled
June 11, 2019 System sampled
June 12, 2019 System sampled
June 18, 2019 System sampled
June 25, 2019 System sampled
July 5, 2019 System sampled
August 6, 2019 System sampled

September 27, 2019 System sampled
October 14, 2019 System sampled
November 20, 2019 System sampled
December 19, 2019 System sampled
January 23, 2020 System sampled
February 21, 2020 System sampled
March 4, 2020 Sub-slab vapor sample (VP1)
March 10, 2020 Monitoring well network sampled
March 24, 2020 System sampled
April 17, 2020 System sampled
May 18, 2020 System sampled
June 24, 2020 System sampled and shut down
June 26, 2020 Sub-slab vapor sample (VP1) and sub-slab soil sample SS-1A
July 31, 2020 Construction Documentation/Update Report submitted
September 30, 2020 Sewer line vapor sampled
November 2, 2020 Sewer line vapor sampling report submitted
January 5, 2021 Closure Report submitted
February 25, 2021 Additional Sub-Slab sample collected

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.

Soil contamination exceeding the NR 720 Groundwater Pathway standard for tetrachloroethylene extends beyond the northern boundary of the site onto railroad property.

iii. Identify any structural impediments to the completion of site investigation and/or remediation and whether these impediments are on the source property or off the source property. Identify the type and location of any structural impediment (e.g., structure) that also serves as the performance standard barrier for protection of the direct contact or the groundwater pathway.

There were no structural impediments to the investigation or remediation. Soil samples were collected from inside the building, and the SVE system was successful in reducing vapor from beneath the slab.

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 majority of soil contamination is located beneath the building. Low-level contamination was detected in borings installed adjacent to the building. The source of contamination is assumed to be incidental spills. The primary receptor is groundwater, with the potential to affect the Wisconsin River.

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

Soil contamination beneath and adjacent to the building exceeds the groundwater pathway standard for tetrachloroethylene

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.

Default NR 720 groundwater pathway and non-industrial direct contact standards were used.

C. Groundwater

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

Groundwater contamination for tetrachloroethylene, originating from the Mosinee Cleaners facility has been detected above the NR 140 Preventive Action Limit, and has fluctuated slightly above the NR 140 Enforcement Standard. The building is slab on grade with no risk to foundation drains or potable wells on site or downgradient.

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 or contaminant levels approaching the potential for free product was not detected at the 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.

Sub-slab and sewer line vapor sampling has been conducted from within the building.

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

The property is zoned commercial, therefore the non-residential screening levels were used. Sub-slab vapor exceeded the screening level for tetrachloroethylene prior to operation of the Soil Vapor Extraction (SVE) system and has been below the screening levels since that time.

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.

Contamination was defined within the soil boring/geoprobe and monitoring well network and was determined not to reach the surface water/sediment downgradient at the Wisconsin River.

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.

Surface water and sediment was not affected.

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.

Remedial action included operation of a SVE system to reduce vapor levels beneath the building slab. The system operation and effectiveness was documented in the July 31, 2020 Construction Documentation/Update Report.

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

There was no immediate or interim action conducted.

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

The SVE system was installed in June 2019 to reduce tetrachloroethylene vapor beneath the building foundation. The system operated until June 2020 at 81% efficiency and removed an estimated 12.4 pounds of tetrachloroethylene from the site.

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.

The most practical and cost effective remedial alternative was SVE to remove tetrachloroethylene vapor from the soil.

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.

Residual soil contamination exceeding the groundwater pathway RCL for tetrachloroethylene remains at the site, mainly beneath the building

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

No soil contamination was detected which exceeds the direct contact standard.

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.

Groundwater contamination above the groundwater pathway RCL for tetrachloroethylene remains beneath and adjacent to the building.

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 is not present above the direct contact standard. The existing building serves as a cover over the contaminated soil to minimize additional groundwater infiltration

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).

Contaminant levels have fluctuated, but have shown a general decreasing trend and are currently below the Enforcement Standard

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

The SVE system eliminated the vapor intrusion risk, and reduced soil contaminant concentrations.

K. Identify any system hardware anticipated to be left in place after site closure, and explain the reasons why it will remain.
All system hardware will be removed.

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.
A PAL exemption is required for tetrachloroethylene at MW4 and MW7

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.
The action level was exceeded for tetrachloroethylene in 2013. A SVE system was installed and operated and the vapor levels decreased significantly.

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.
Surface water and sediment was not affected.

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

6. Underground Storage Tanks

A. Were any tanks, piping or other associated tank system components removed as part of the investigation or remedial action? ◯ Yes ◉ No

B. Do any upgraded tanks meeting the requirements of ch. ATCP 93, Wis. Adm. Code, exist on the property? ◯ Yes ◉ No

C. If the answer to question 6.B. is yes, is the leak detection system currently being monitored? ◯ Yes ◯ No

General Instructions

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

Data Tables (Attachment A)

Directions for Data Tables:

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

A. Data Tables

A.1. **Groundwater Analytical Table(s):** Table(s) showing the analytical results and collection dates for all groundwater sampling points (e.g., monitoring wells, temporary wells, sumps, extraction wells, potable wells) for which samples have been collected.

A.2. **Soil Analytical Results Table(s):** Table(s) showing **all** soil analytical results and collection dates. Indicate if sample was collected above or below the observed low water table (unsaturated versus saturated).

A.3. **Residual Soil Contamination Table(s):** Table(s) showing the analytical results of only the residual soil contamination at the time of closure. This table shall be a subset of table A.2 and should include only the soil sample locations that exceed an RCL. Indicate if sample was collected above or below the observed low water table (unsaturated versus saturated). Table A.3 is optional only if a total of fewer than 15 soil samples have been collected at the site.

A.4. **Vapor Analytical Table(s)**: Table(s) showing type(s) of samples, sample collection methods, analytical method, sample results, date of sample collection, time period for sample collection, method and results of leak detection, and date, method and results of communication testing.

A.5. **Other Media of Concern (e.g., sediment or surface water)**: Table(s) showing type(s) of sample, sample collection method, analytical method, sample results, date of sample collection, and time period for sample collection.

A.6. **Water Level Elevations:** Table(s) showing all water level elevation measurements and dates from all monitoring wells. If present, free product should be noted on the table.

A.7. **Other:** This attachment should include: 1) any available tabulated natural attenuation data; 2) data tables pertaining to engineered remedial systems that document operational history, demonstrate system performance and effectiveness, and display emissions data; and (3) any other data tables relevant to case closure not otherwise noted above. If this section is not applicable, please explain the reasons why.

Maps, Figures and Photos (Attachment B)

Directions for Maps, Figures and Photos:

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

B.1. Location Maps

B.1.a. **Location Map:** A map outlining all properties within the contaminated site boundaries on a United States Geological Survey (U.S.G.S.) topographic map or plat map in sufficient detail to permit easy location of all affected and/or adjacent parcels. If groundwater standards are exceeded, include the location of all potable wells, including municipal wells, within 1200 feet of the area of contamination.

B.1.b. **Detailed Site Map:** A map that shows all relevant features (buildings, roads, current ground surface cover, individual property boundaries for all affected properties, contaminant sources, utility lines, monitoring wells and potable wells) within the contaminated area. This map is to show the location of all contaminated public streets, and highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination attaining or exceeding a ch. NR 140 ES, and/or in relation to the boundaries of soil contamination attaining or exceeding a RCL. Provide parcel identification numbers for all affected properties.

B.1.c. **RR Sites Map:** From RR Sites Map (http://dnrmaps.wi.gov/sl/?Viewer=RR Sites) attach a map depicting the source property, and all open and closed BRRTS sites within a half-mile radius or less of the property.

B.2. Soil Figures

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

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

B.3. Groundwater Figures

B.3.a. **Geologic Cross-Section Figure(s):** One or more cross-section diagrams showing soil types and correlations across the site, water table and piezometric elevations, and locations and elevations of geologic rock units, if encountered. Display on one or more figures all of the following:

- Source location(s) and vertical extent of residual soil contamination exceeding an RCL. Distinguish between direct contact and the groundwater pathway RCLs.
- Source location(s) and lateral and vertical extent if groundwater contamination exceeds ch. NR 140 ES.
- Surface features, including buildings and basements, and show surface elevation changes.
- Any areas of active remediation within the cross section path, such as excavations or treatment zones.
- Include a map displaying the cross-section location(s), if they are not displayed on the Detailed Site Map (Map B.1.b.)

B.3.b. **Groundwater Isoconcentration:** Figure(s) showing the horizontal extent of the post-remedial groundwater contamination exceeding a ch. NR 140, Wis. Adm. Code, PAL and/or an ES. Indicate the date and direction of groundwater flow based on the most recent sampling data.

B.3.c. **Groundwater Flow Direction:** Figure(s) representing groundwater movement at the site. If the flow direction varies by more than 20° over the history of the site, submit two groundwater flow maps showing the maximum variation in flow direction.

B.3.d. **Monitoring Wells:** Figure(s) showing all monitoring wells, with well identification number. Clearly designate any wells that: (1) are proposed to be abandoned; (2) cannot be located; (3) are being transferred; (4) will be retained for further sampling, or (5) have been abandoned.

B.4. Vapor Maps and Other Media

B.4.a. **Vapor Intrusion Map:** Map(s) showing all locations and results for samples taken to investigate the vapor intrusion pathway in relation to residual soil and groundwater contamination, including sub-slab, indoor air, soil vapor, soil gas, ambient air, and communication testing. Show locations and footprints of affected structures and utility corridors, and/or where residual contamination poses a future risk of vapor intrusion.

B.4.b. **Other media of concern (e.g., sediment or surface water):** Map(s) showing all sampling locations and results for other media investigation. Include the date of sample collection and identify where any standards are exceeded.

B.4.c. **Other:** Include any other relevant maps and figures not otherwise noted above. (This section may remain blank).

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

Documentation of Remedial Action (Attachment C)

Directions for Documentation of Remedial Action:

- Include in Attachment C all of the following documentation, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: C.1. Site Investigation Documentation; C.2. Investigative Waste, etc.).
- If the documentation requested below has already been submitted to the DNR, please note the title and date of the report for that particular document requested.

C.1. **Site investigation documentation,** that has not otherwise been submitted with the Site Investigation Report.

C.2. **Investigative waste** disposal documentation.

C.3. Provide a **description of the methodology** used along with all supporting documentation if the RCLs are different than those contained in the Department's RCL Spreadsheet available at: http://dnr.wi.gov/topic/Brownfields/Professionals.html.

C.4. **Construction documentation** or as-built report for any constructed remedial action or portion of, or interim action specified in s. NR 724.02(1), Wis. Adm. Code.

C.5. **Decommissioning of Remedial Systems.** Include plans to properly abandon any systems or equipment.

C.6. **Other**. Include any other relevant documentation not otherwise noted above (This section may remain blank).

Maintenance Plan(s) and Photographs (Attachment D)

Directions for Maintenance Plans and Photographs:

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

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

- Provide brief descriptions of the type, depth and location of residual contamination.

- Provide a description of the system/cover/barrier/monitoring well(s) to be maintained.
- Provide a description of the maintenance actions required for maximizing effectiveness of the engineered control, vapor mitigation system, feature or other action for which maintenance is required.
- Provide contact information, including the name, address and phone number of the individual or facility who will be conducting the maintenance.

D.2. **Location map(s) which show(s):** (1) the feature that requires maintenance; (2) the location of the feature(s) that require(s) maintenance - on and off the source property; (3) the extent of the structure or feature(s) to be maintained, in relation to other structures or features on the site; (4) the extent and type of residual contamination; and (5) all property boundaries.

D.3. **Photographs** for site or facilities with a cover or other performance standard, a structural impediment or a vapor mitigation system, include one or more photographs documenting the condition and extent of the feature at the time of the closure request. Pertinent features shall be visible and discernible. Photographs shall be submitted with a title related to the site name and location, and the date on which it was taken.

D.4. **Inspection log**, to be maintained on site, or at a location specified in the maintenance plan or approval letter. The inspection and maintenance log is found at: http://dnr.wi.gov/files/PDF/forms/4400/4400-305.pdf.

Monitoring Well Information (Attachment E)

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

Select One:

◯ No monitoring wells were installed as part of this response action.

◉ All monitoring wells have been located and will be properly abandoned upon the DNR granting conditional closure to the site

◯ ***Select One or More:***

☐ Not all monitoring wells can be located, despite good faith efforts. Attachment E must include a description of efforts made to locate the wells.

☐ One or more wells will remain in use at the site after this closure. Attachment E must include documentation as to the reason (s) the well(s) will remain in use. When one or more monitoring wells will remain in use this is considered a continuing obligation and a maintenance plan will be required and must be included in Attachment D.

☐ One or more monitoring wells will be transferred to another owner upon case closure being granted. Attachment E should include documentation identifying the name, address and email for the new owner(s). Provide documentation from the party accepting future responsibility for monitoring well(s).

Source Legal Documents (Attachment F)

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

F.1. **Deed:** The most recent deed with legal description clearly listed.

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

F.2. **Certified Survey Map:** A copy of the certified survey map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map. In cases where the certified survey map or recorded plat map are not legible or are unavailable, a copy of a parcel map from a county land information office may be substituted. A copy of a parcel map from a county land information office shall be legible, and the parcels identified in the legal description shall be clearly identified and labeled with the applicable parcel identification number.

F.3. **Verification of Zoning**: Documentation (e.g., official zoning map or letter from municipality) of the property's or properties' current zoning status.

F.4. **Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes that the attached legal description(s) accurately describe(s) the correct contaminated property or properties. This section applies to the source property only. Signed statements for Other Affected Properties should be included in Attachment G.

Notifications to Owners of Affected Properties (Attachment G)

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

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

Include a copy of each notification sent and accompanying proof of delivery, i.e., return receipt or signature confirmation.

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

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

Notifications to Owners of Affected Properties (Attachment G)

							Reasons Notification Letter Sent:														
ID	Address of Affected Property	Parcel ID No.	Date of Receipt of Letter	Type of Property Owner	WTMX	WTMY	Residual Groundwater Contamination = or > ES	Residual Soil Contamination Exceeds RCLs	Monitoring Wells: Not Abandoned	Monitoring Wells: Continued Monitoring	Cover/Barrier/Engineered Control	Structural Impediment	Industrial RCLs Met/Applied	Vapor Mitigation System(VMS)	Dewatering System Needed for VMS	Compounds of Concern in Use	Commercial/Industrial Vapor Exposure Assumptions Applied	Residual Volatile Contamination Poses Future Risk of Vapor Intrusion	Site Specification Situation
A	Canadian National right of way	NA		ROWH	544565	480161		X											
B																			
C																			
D																			

Signatures and Findings for Closure Determination

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

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

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

Engineering Certification

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

Signature _____ P. E. # E-42273

Title Project Engineer P.E. Stamp

WISCONSIN MICHAEL MOHR E-42273 WAUSAU WI 3-10-21 PROFESSIONAL ENGINEER

Hydrogeologist Certification

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

Signature _____

Title Senior Hydrogeologist Date 3/10/21

WISCONSIN ANDREW R. DELFORGE PG-1175 BIRNAMWOOD WI PROFESSIONAL GEOLOGIST

Table of Contents - Attachment A: Data Tables

A.1.a
MW1 GROUNDWATER ANALYTICAL RESULTS
MOSINEE CLEANERS
735 OLD HIGHWAY 51
MOSINEE, WI

		Date	1/23/12	4/9/12	7/16/13	10/28/13	1/30/14	4/30/14	7/17/14	10/7/14	3/10/20
		Location	MW1								
VOCs (ug/L)	**ES**	**PAL**									
Benzene	5	0.5	<0.41	<0.41	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25
Bromobenzene			<0.82	<0.82	<0.48	<0.48	<0.48	<0.23	<0.23	<0.23	<0.24
Bromochloromethane			<0.97	<0.97	<0.49	<0.49	<0.49	<0.32	<0.34	<0.34	<0.36
Bromodichloromethane	0.6	0.06	<0.56	<0.56	<0.45	<0.45	<0.45	<0.50	<0.50	<0.50	<0.36
Bromoform	4.4	0.44	<0.94	<0.94	<0.23	<0.23	<0.23	<0.50	<0.50	<0.50	<4.0
Bromomethane	10	1	<0.91	<0.91	<0.43	<0.43	<0.43	<2.4	<2.4	<2.4	<0.97
n-Butylbenzene			<0.93	<0.93	<0.40	<0.40	<0.40	<0.22	<0.50	<0.50	<0.71
sec-Butylbenzene			<0.89	<0.89	<0.60	<0.60	<0.60	<2.2	<2.2	<2.2	<0.85
tert-Butylbenzene			<0.97	<0.97	<0.42	<0.42	<0.42	<0.18	<0.18	<0.18	<0.30
Carbon tetrachloride	5	0.5	<0.49	<0.49	<0.37	<0.37	<0.37	<0.50	<0.50	<0.50	<1.1
Chlorobenzene			<0.41	<0.41	<0.36	<0.36	<0.36	<0.50	<0.50	<0.50	<0.71
Chloroethane	400	80	<0.97	<0.97	<0.44	<0.44	<0.44	<0.37	<0.37	<0.37	<1.3
Chloroform	6	0.6	*3.6*	<1.3	<0.69	<0.69	<0.69	<2.5	<2.5	<2.5	<1.3
Chloromethane	3	0.3	<0.24	<0.24	<0.39	<0.39	<0.39	<0.50	<0.50	<0.50	<2.2
2-Chlorotoluene			<0.85	<0.85	<0.48	<0.48	<0.48	<0.50	<0.50	<0.50	<0.93
4-Chlorotoluene			<0.74	<0.74	<0.48	<0.48	<0.48	<0.21	<0.21	<0.21	<0.76
1,2-Dibromo-3-chloropropane	0.2	0.02	<1.7	<1.7	<1.5	<1.5	<1.5	<2.2	<2.2	<2.2	<1.8
Dibromochloromethane	60	6	<0.81	<0.81	<1.9	<1.9	<1.9	<0.32	<0.50	<0.50	<2.6
1,2-Dibromoethane	0.05	0.005	<0.56	<0.56	<0.38	<0.38	<0.38	<0.16	<0.16	<0.16	<0.83
Dibromomethane			<0.60	<0.60	<0.48	<0.48	<0.48	<0.43	<0.43	<0.43	<0.94
1,2-Dichlorobenzene	600	60	<0.83	<0.83	<0.44	<0.44	<0.44	<0.50	<0.50	<0.50	<0.71
1,3-Dichlorobenzene	1,250	125	<0.87	<0.87	<0.45	<0.45	<0.45	<0.50	<0.50	<0.50	<0.63
1,4-Dichlorobenzene	75	15	<0.95	<0.95	<0.43	<0.43	<0.43	<0.50	<0.50	<0.50	<0.94
Dichlorodifluoromethane	1,000	200	<0.99	<0.99	<0.40	<0.40	<0.40	<0.16	<0.20	<0.20	<0.50
1,1-Dichloroethane	850	85	<0.75	<0.75	<0.28	<0.28	<0.28	<0.16	<0.24	<0.24	<0.27
1,2-Dichloroethane	5	0.5	<0.36	<0.36	<0.48	<0.48	<0.48	<0.17	<0.17	<0.17	<0.28
1,1-Dichloroethene	7	0.7	<0.57	<0.57	<0.43	<0.43	<0.43	<0.41	<0.41	<0.41	<0.24
cis-1,2-Dichloroethylene	70	7	<0.83	<0.83	<0.42	<0.42	<0.42	<0.26	<0.26	<0.26	<0.27
trans-1,2-Dichloroethylene	100	20	<0.89	<0.89	<0.37	<0.37	<0.37	<0.24	<0.26	<0.26	<1.1
1,2 Dichloropropane	5	0.5	<0.49	<0.49	<0.50	<0.50	<0.50	<0.23	<0.23	<0.23	<0.28
1,3-Dichloropropane	0.2	0.02	<0.61	<0.61	<0.46	<0.46	<0.46	<0.50	<0.50	<0.50	<0.83
2,2-Dichloropropane			<0.62	<0.62	<0.37	<0.37	<0.37	<0.48	<0.48	<0.48	<2.3
1,1-Dichloropropylene			<0.75	<0.75	<0.51	<0.51	<0.51	<0.44	<0.44	<0.44	<0.54
cis-1,3-Dichloropropylene	0.2	0.02	<0.20	<0.20	<0.29	<0.29	<0.29	<0.15	<0.50	<0.50	<3.6
trans-1,3-Dichloropropylene	0.2	0.02	<0.19	<0.19	<0.26	<0.26	<0.26	<0.23	<0.23	<0.23	<4.4
Diisopropyl ether			<0.76	<0.76	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.9
Ethylbenzene	700	140	<0.54	<0.54	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.32
Hexachloro-1,3-butadiene			<0.67	<0.67	<1.3	<1.3	<1.3	<2.1	<2.1	<2.1	<1.5
Isopropylbenzene			<0.59	<0.59	<0.34	<0.34	<0.34	<0.12	<0.14	<0.14	<1.7
p-Isopropyltoluene			<0.67	<0.67	<0.40	<0.40	<0.40	<0.13	<0.50	<0.50	<0.80
Methylene Chloride	5	0.5	<0.43	<0.43	<0.36	<0.36	<0.36	<0.23	<0.23	<0.23	<0.58
Methyl tert Butyl Ether	60	12	<0.61	<0.61	<0.49	<0.49	<0.49	<0.7	<0.17	<0.17	<1.2
Naphthalene	100	14	<0.89	<0.89	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1.2
n-Propylbenzene			<0.81	<0.81	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.81
Styrene	100	10	<0.86	<0.86	<0.35	<0.35	<0.35	<0.15	<0.50	<0.50	<3.0
1,1,1,2-Tetrachloroethane	70	7	<0.92	<0.92	<0.45	<0.45	<0.45	<0.18	<0.18	<0.18	<0.27
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.20	<0.20	<0.38	<0.38	<0.38	<0.25	<0.25	<0.25	<0.28
Tetrachloroethene	5	0.5	*2.1*	**5.4**	**12.9**	**8.9**	*4.1*	*4.6*	**6.2**	**13.4**	<0.33
Toluene	800	160	<0.67	<0.67	<0.44	<0.44	<0.44	<0.50	<0.50	<0.50	<0.27
1,2,3-Trichlorobenzene			<0.74	<0.74	<0.77	<0.77	<0.77	<2.1	<2.1	<2.1	<2.2
1,2,4-Trichlorobenzene	70	14	<0.97	<0.97	<2.5	<2.5	<2.5	<2.2	<2.2	<2.2	<0.95
1,1,1-Trichloroethane	200	40	<0.90	<0.90	<0.44	<0.44	<0.44	<0.50	<0.50	<0.50	<0.24
1,1,2-Trichloroethane	5	0.5	<0.42	<0.42	<0.39	<0.39	<0.39	<0.16	<0.16	<0.16	<0.55
Trichloroethene	5	0.5	<0.48	<0.48	<0.43	<0.43	<0.43	<0.33	<0.33	<0.33	<0.26
Trichlorofluoromethane	3,490	698	<0.79	<0.79	<0.48	<0.48	<0.48	<0.17	<0.17	<0.17	<0.21
1,2,3-Trichloropropane	60	12	<0.99	<0.99	<0.47	<0.47	<0.47	<0.50	<0.50	<0.50	<0.59
Total Trimethylbenzenes	480	96	<1.80	<1.80	<3.07	<3.07	<3.07	<1.0	<1.0	<1.0	<1.71
Vinyl Chloride	0.2	0.02	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.17
Total Xylenes	2,000	400	<2.63	<2.63	<1.32	<1.32	<1.32	<1.5	<1.5	<1.5	<0.73

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
< = Concentration less than listed detection limit
NA= Not Analyzed
ES exceedences are in bold text
PAL exceedences are in italic text

Bold
Italic

j - Estimated value between Method Detection Limit (MDL) and Limit of Quantification (LOQ)

A.1.b
MW2 GROUNDWATER ANALYTICAL RESULTS
MOSINEE CLEANERS
735 OLD HIGHWAY 51
MOSINEE, WI

		Date	1/23/12	4/9/12	7/16/13	10/28/13	1/30/14	4/30/14	7/17/14	10/7/14	3/10/20
		Location	MW2								
VOCs (ug/L)	**ES**	**PAL**									
Benzene	5	0.5	<0.41	<0.41	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25
Bromobenzene			<0.82	<0.82	<0.48	<0.48	<0.48	<0.23	<0.23	<0.23	<0.24
Bromochloromethane			<0.97	<0.97	<0.49	<0.49	<0.49	<0.32	<0.34	<0.34	<0.36
Bromodichloromethane	0.6	0.06	**0.64**	**4.1**	<0.45	<0.45	<0.45	<0.50	<0.50	<0.50	<0.36
Bromoform	4.4	0.44	<0.94	<0.94	<0.23	<0.23	<0.23	<0.50	<0.50	<0.50	<4.0
Bromomethane	10	1	<0.91	<0.91	<0.43	<0.43	<0.43	<2.4	<2.4	<2.4	<0.97
n-Butylbenzene			<0.93	<0.93	<0.40	<0.40	<0.40	<0.22	<0.50	<0.50	<0.71
sec-Butylbenzene			<0.89	<0.89	<0.60	<0.60	<0.60	<2.2	<2.2	<2.2	<0.85
tert-Butylbenzene			<0.97	<0.97	<0.42	<0.42	<0.42	<0.18	<0.18	<0.18	<0.30
Carbon tetrachloride	5	0.5	<0.49	<0.49	<0.37	<0.37	<0.37	<0.50	<0.50	<0.50	<1.1
Chlorobenzene			<0.41	<0.41	<0.36	<0.36	<0.36	<0.50	<0.50	<0.50	<0.71
Chloroethane	400	80	<0.97	<0.97	<0.44	<0.44	<0.44	<0.37	<0.37	<0.37	<1.3
Chloroform	6	0.6	*4.1*	*2.7*[j]	<0.69	<0.69	<0.69	<2.5	<2.5	<2.5	<1.3
Chloromethane	3	0.3	<0.24	<0.24	<0.39	<0.39	<0.39	<0.50	<0.50	<0.50	<2.2
2-Chlorotoluene			<0.85	<0.85	<0.48	<0.48	<0.48	<0.50	<0.50	<0.50	<0.93
4-Chlorotoluene			<0.74	<0.74	<0.48	<0.48	<0.48	<0.21	<0.21	<0.21	<0.76
1,2-Dibromo-3-chloropropane	0.2	0.02	<1.7	<1.7	<1.5	<1.5	<1.5	<2.2	<2.2	<2.2	<1.8
Dibromochloromethane	60	6	3.8	<0.81	<1.9	<1.9	<1.9	<0.32	<0.50	<0.50	<2.6
1,2-Dibromoethane	0.05	0.005	<0.56	<0.56	<0.38	<0.38	<0.38	<0.16	<0.16	<0.16	<0.83
Dibromomethane			<0.60	<0.60	<0.48	<0.48	<0.48	<0.43	<0.43	<0.43	<0.94
1,2-Dichlorobenzene	600	60	<0.83	<0.83	<0.44	<0.44	<0.44	<0.50	<0.50	<0.50	<0.71
1,3-Dichlorobenzene	1,250	125	<0.87	<0.87	<0.45	<0.45	<0.45	<0.50	<0.50	<0.50	<0.63
1,4-Dichlorobenzene	75	15	<0.95	<0.95	<0.43	<0.43	<0.43	<0.50	<0.50	<0.50	<0.94
Dichlorodifluoromethane	1,000	200	<0.99	<0.99	<0.40	<0.40	<0.40	<0.16	<0.20	<0.20	<0.50
1,1-Dichloroethane	850	85	<0.75	<0.75	<0.28	<0.28	<0.28	<0.16	<0.24	<0.24	<0.27
1,2-Dichloroethane	5	0.5	<0.36	<0.36	<0.48	<0.48	<0.48	<0.17	<0.17	<0.17	<0.28
1,1-Dichloroethene	7	0.7	<0.57	<0.57	<0.43	<0.43	<0.43	<0.41	<0.41	<0.41	<0.24
cis-1,2-Dichloroethylene	70	7	<0.83	<0.83	<0.42	<0.42	<0.42	<0.26	<0.26	<0.26	<0.27
trans-1,2-Dichloroethylene	100	20	<0.89	<0.89	<0.37	<0.37	<0.37	<0.24	<0.26	<0.26	<1.1
1,2 Dichloropropane	5	0.5	<0.49	<0.49	<0.50	<0.50	<0.50	<0.23	<0.23	<0.23	<0.28
1,3-Dichloropropane	0.2	0.02	<0.61	<0.61	<0.46	<0.46	<0.46	<0.50	<0.50	<0.50	<0.83
2,2-Dichloropropane			<0.62	<0.62	<0.37	<0.37	<0.37	<0.48	<0.48	<0.48	<2.3
1,1-Dichloropropylene			<0.75	<0.75	<0.51	<0.51	<0.51	<0.44	<0.44	<0.44	<0.54
cis-1,3-Dichloropropylene	0.2	0.02	<0.20	<0.20	<0.29	<0.29	<0.29	<0.15	<0.50	<0.50	<3.6
trans-1,3-Dichloropropylene	0.2	0.02	<0.19	<0.19	<0.26	<0.26	<0.26	<0.23	<0.23	<0.23	<4.4
Diisopropyl ether			<0.76	<0.76	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.9
Ethylbenzene	700	140	<0.54	<0.54	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.32
Hexachloro-1,3-butadiene			<0.67	<0.67	<1.3	<1.3	<1.3	<2.1	<2.1	<2.1	<1.5
Isopropylbenzene			<0.59	<0.59	<0.34	<0.34	<0.34	<0.12	<0.14	<0.14	<1.7
p-Isopropyltoluene			<0.67	<0.67	<0.40	<0.40	<0.40	<0.13	<0.50	<0.50	<0.80
Methylene Chloride	5	0.5	<0.43	<0.43	<0.36	<0.36	<0.36	<0.23	<0.23	<0.23	<0.58
Methyl tert Butyl Ether	60	12	<0.61	<0.61	<0.49	<0.49	<0.49	<0.7	<0.17	<0.17	<1.2
Naphthalene	100	14	<0.89	<0.89	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1.2
n-Propylbenzene			<0.81	<0.81	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.81
Styrene	100	10	<0.86	<0.86	<0.35	<0.35	<0.35	<0.15	<0.50	<0.50	<3.0
1,1,1,2-Tetrachloroethane	70	7	<0.92	<0.92	<0.45	<0.45	<0.45	<0.18	<0.18	<0.18	<0.27
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.20	<0.20	<0.38	<0.38	<0.38	<0.25	<0.25	<0.25	<0.28
Tetrachloroethene	5	0.5	*1.3*	0.46j	*0.62j*	*1.8*	*0.61j*	<0.50	*1.9*	*1.6*	<0.33
Toluene	800	160	<0.67	<0.67	<0.44	<0.44	<0.44	<0.50	<0.50	<0.50	<0.27
1,2,3-Trichlorobenzene			<0.74	<0.74	<0.77	<0.77	<0.77	<2.1	<2.1	<2.1	<2.2
1,2,4-Trichlorobenzene	70	14	<0.97	<0.97	<2.5	<2.5	<2.5	<2.2	<2.2	<2.2	<0.95
1,1,1-Trichloroethane	200	40	<0.90	<0.90	<0.44	<0.44	<0.44	<0.50	<0.50	<0.50	<0.24
1,1,2-Trichloroethane	5	0.5	<0.42	<0.42	<0.39	<0.39	<0.39	<0.16	<0.16	<0.16	<0.55
Trichloroethene	5	0.5	<0.48	<0.48	<0.43	<0.43	<0.43	<0.33	<0.33	<0.33	<0.26
Trichlorofluoromethane	3,490	698	<0.79	<0.79	<0.48	<0.48	<0.48	<0.17	<0.17	<0.17	<0.21
1,2,3-Trichloropropane	60	12	<0.99	<0.99	<0.47	<0.47	<0.47	<0.50	<0.50	<0.50	<0.59
Total Trimethylbenzenes	480	96	<1.80	<1.80	<3.07	<3.07	<3.07	<1.0	<1.0	<1.0	<1.71
Vinyl Chloride	0.2	0.02	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.17
Total Xylenes	2,000	400	<2.63	<2.63	<1.32	<1.32	<1.32	<1.5	<1.5	<1.5	<0.73

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
< = Concentration less than listed detection limit
NA= Not Analyzed
ES exceedences are in bold text
PAL exceedences are in italic text

Bold
Italic

j - Estimated value between Method Detection Limit (MDL) and Limit of Quantification (LOQ)

A.1.c
MW3 GROUNDWATER ANALYTICAL RESULTS
MOSINEE CLEANERS
735 OLD HIGHWAY 51
MOSINEE, WI

		Date	1/23/12	4/9/12	7/16/13	10/28/13	1/30/14	4/30/14	7/17/14	10/7/14	3/10/20
		Location	MW3								
VOCs (ug/L)	**ES**	**PAL**									
Benzene	5	0.5	<0.41	<0.41	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
Bromobenzene			<0.82	<0.82	<0.48	<0.48	<0.48	<0.23	<0.23	<0.23	
Bromochloromethane			<0.97	<0.97	<0.49	<0.49	<0.49	<0.32	<0.34	<0.34	
Bromodichloromethane	0.6	0.06	<0.56	<0.56	<0.45	<0.45	<0.45	<0.50	<0.50	<0.50	
Bromoform	4.4	0.44	<0.94	<0.94	<0.23	<0.23	<0.23	<0.50	<0.50	<0.50	
Bromomethane	10	1	<0.91	<0.91	<0.43	<0.43	<0.43	<2.4	<2.4	<2.4	
n-Butylbenzene			<0.93	<0.93	<0.40	<0.40	<0.40	<0.22	<0.50	<0.50	
sec-Butylbenzene			<0.89	<0.89	<0.60	<0.60	<0.60	<2.2	<2.2	<2.2	
tert-Butylbenzene			<0.97	<0.97	<0.42	<0.42	<0.42	<0.18	<0.18	<0.18	
Carbon tetrachloride	5	0.5	<0.49	<0.49	<0.37	<0.37	<0.37	<0.50	<0.50	<0.50	
Chlorobenzene			<0.41	<0.41	<0.36	<0.36	<0.36	<0.50	<0.50	<0.50	
Chloroethane	400	80	<0.97	<0.97	<0.44	<0.44	<0.44	<0.37	<0.37	<0.37	
Chloroform	6	0.6	<1.3	<1.3	<0.69	<0.69	<0.69	<2.5	<2.5	<2.5	
Chloromethane	3	0.3	<0.24	<0.24	<0.39	<0.39	<0.39	<0.50	<0.50	<0.50	
2-Chlorotoluene			<0.85	<0.85	<0.48	<0.48	<0.48	<0.50	<0.50	<0.50	
4-Chlorotoluene			<0.74	<0.74	<0.48	<0.48	<0.48	<0.21	<0.21	<0.21	
1,2-Dibromo-3-chloropropane	0.2	0.02	<1.7	<1.7	<1.5	<1.5	<1.5	<2.2	<2.2	<2.2	
Dibromochloromethane	60	6	<0.81	<0.81	<1.9	<1.9	<1.9	<0.32	<0.50	<0.50	
1,2-Dibromoethane	0.05	0.005	<0.56	<0.56	<0.38	<0.38	<0.38	<0.16	<0.16	<0.16	
Dibromomethane			<0.60	<0.60	<0.48	<0.48	<0.48	<0.43	<0.43	<0.43	
1,2-Dichlorobenzene	600	60	<0.83	<0.83	<0.44	<0.44	<0.44	<0.50	<0.50	<0.50	
1,3-Dichlorobenzene	1,250	125	<0.87	<0.87	<0.45	<0.45	<0.45	<0.50	<0.50	<0.50	
1,4-Dichlorobenzene	75	15	<0.95	<0.95	<0.43	<0.43	<0.43	<0.50	<0.50	<0.50	
Dichlorodifluoromethane	1,000	200	<0.99	<0.99	<0.40	<0.40	<0.40	<0.16	<0.20	<0.20	
1,1-Dichloroethane	850	85	<0.75	<0.75	<0.28	<0.28	<0.28	<0.16	<0.24	<0.24	
1,2-Dichloroethane	5	0.5	<0.36	<0.36	<0.48	<0.48	<0.48	<0.17	<0.17	<0.17	
1,1-Dichloroethene	7	0.7	<0.57	<0.57	<0.43	<0.43	<0.43	<0.41	<0.41	<0.41	
cis-1,2-Dichloroethylene	70	7	<0.83	<0.83	<0.42	<0.42	<0.42	<0.26	<0.26	<0.26	
trans-1,2-Dichloroethylene	100	20	<0.89	<0.89	<0.37	<0.37	<0.37	<0.24	<0.26	<0.26	
1,2 Dichloropropane	5	0.5	<0.49	<0.49	<0.50	<0.50	<0.50	<0.23	<0.23	<0.23	
1,3-Dichloropropane	0.2	0.02	<0.61	<0.61	<0.46	<0.46	<0.46	<0.50	<0.50	<0.50	
2,2-Dichloropropane			<0.62	<0.62	<0.37	<0.37	<0.37	<0.48	<0.48	<0.48	
1,1-Dichloropropylene			<0.75	<0.75	<0.51	<0.51	<0.51	<0.44	<0.44	<0.44	
cis-1,3-Dichloropropylene	0.2	0.02	<0.20	<0.20	<0.29	<0.29	<0.29	<0.15	<0.50	<0.50	
trans-1,3-Dichloropropylene	0.2	0.02	<0.19	<0.19	<0.26	<0.26	<0.26	<0.23	<0.23	<0.23	
Diisopropyl ether			<0.76	<0.76	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
Ethylbenzene	700	140	<0.54	<0.54	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
Hexachloro-1,3-butadiene			<0.67	<0.67	<1.3	<1.3	<1.3	<2.1	<2.1	<2.1	
Isopropylbenzene			<0.59	<0.59	<0.34	<0.34	<0.34	<0.12	<0.14	<0.14	
p-Isopropyltoluene			<0.67	<0.67	<0.40	<0.40	<0.40	<0.13	<0.50	<0.50	
Methylene Chloride	5	0.5	<0.43	<0.43	<0.36	<0.36	<0.36	<0.23	<0.23	<0.23	
Methyl tert Butyl Ether	60	12	<0.61	<0.61	<0.49	<0.49	<0.49	<0.7	<0.17	<0.17	
Naphthalene	100	14	<0.89	<0.89	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
n-Propylbenzene			<0.81	<0.81	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
Styrene	100	10	<0.86	<0.86	<0.35	<0.35	<0.35	<0.15	<0.50	<0.50	
1,1,1,2-Tetrachloroethane	70	7	<0.92	<0.92	<0.45	<0.45	<0.45	<0.18	<0.18	<0.18	
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.20	<0.20	<0.38	<0.38	<0.38	<0.25	<0.25	<0.25	
Tetrachloroethene	5	0.5	**8.7**	**6.0**	*2.7*	**5.9**	*2.3*	*3.2*	*1.9*	*3.8*	
Toluene	800	160	<0.67	<0.67	<0.44	<0.44	<0.44	<0.50	<0.50	<0.50	
1,2,3-Trichlorobenzene			<0.74	<0.74	<0.77	<0.77	<0.77	<2.1	<2.1	<2.1	
1,2,4-Trichlorobenzene	70	14	<0.97	<0.97	<2.5	<2.5	<2.5	<2.2	<2.2	<2.2	
1,1,1-Trichloroethane	200	40	<0.90	<0.90	<0.44	<0.44	<0.44	<0.50	<0.50	<0.50	
1,1,2-Trichloroethane	5	0.5	<0.42	<0.42	<0.39	<0.39	<0.39	<0.16	<0.16	<0.16	
Trichloroethene	5	0.5	<0.48	<0.48	<0.43	<0.43	<0.43	<0.33	<0.33	<0.33	
Trichlorofluoromethane	3,490	698	<0.79	<0.79	<0.48	<0.48	<0.48	<0.17	<0.17	<0.17	
1,2,3-Trichloropropane	60	12	<0.99	<0.99	<0.47	<0.47	<0.47	<0.50	<0.50	<0.50	
Total Trimethylbenzenes	480	96	<1.80	<1.80	<3.07	<3.07	<3.07	<1.0	<1.0	<1.0	
Vinyl Chloride	0.2	0.02	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	
Total Xylenes	2,000	400	<2.63	<2.63	<1.32	<1.32	<1.32	<1.5	<1.5	<1.5	

Well Full of Sediment

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
< = Concentration less than listed detection limit
NA= Not Analyzed
ES exceedences are in bold text
PAL exceedences are in italic text

Bold
Italic

j - Estimated value between Method Detection Limit (MDL) and Limit of Quantification (LOQ)

A.1.d
MW4 GROUNDWATER ANALYTICAL RESULTS
MOSINEE CLEANERS
735 OLD HIGHWAY 51
MOSINEE, WI

		Date	1/23/12	4/9/12	7/16/13	10/28/13	1/30/14	4/30/14	7/17/14	10/7/14	3/10/20
		Location	MW4								
VOCs (ug/L)	**ES**	**PAL**									
Benzene	5	0.5	<0.41	<0.41	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25
Bromobenzene			<0.82	<0.82	<0.48	<0.48	<0.48	<0.23	<0.23	<0.23	<0.24
Bromochloromethane			<0.97	<0.97	<0.49	<0.49	<0.49	<0.32	<0.34	<0.34	<0.36
Bromodichloromethane	0.6	0.06	<0.56	<0.56	<0.45	<0.45	<0.45	<0.50	<0.50	<0.50	<0.36
Bromoform	4.4	0.44	<0.94	<0.94	<0.23	<0.23	<0.23	<0.50	<0.50	<0.50	<4.0
Bromomethane	10	1	<0.91	<0.91	<0.43	<0.43	<0.43	<2.4	<2.4	<2.4	<0.97
n-Butylbenzene			<0.93	<0.93	<0.40	<0.40	<0.40	<0.22	<0.50	<0.50	<0.71
sec-Butylbenzene			<0.89	<0.89	<0.60	<0.60	<0.60	<2.2	<2.2	<2.2	<0.85
tert-Butylbenzene			<0.97	<0.97	<0.42	<0.42	<0.42	<0.18	<0.18	<0.18	<0.30
Carbon tetrachloride	5	0.5	<0.49	<0.49	<0.37	<0.37	<0.37	<0.50	<0.50	<0.50	<1.1
Chlorobenzene			<0.41	<0.41	<0.36	<0.36	<0.36	<0.50	<0.50	<0.50	<0.71
Chloroethane	400	80	<0.97	<0.97	<0.44	<0.44	<0.44	<0.37	<0.37	<0.37	<1.3
Chloroform	6	0.6	<1.3	<1.3	<0.69	<0.69	<0.69	<2.5	<2.5	<2.5	<1.3
Chloromethane	3	0.3	<0.24	<0.24	<0.39	<0.39	<0.39	<0.50	<0.50	<0.50	<2.2
2-Chlorotoluene			<0.85	<0.85	<0.48	<0.48	<0.48	<0.50	<0.50	<0.50	<0.93
4-Chlorotoluene			<0.74	<0.74	<0.48	<0.48	<0.48	<0.21	<0.21	<0.21	<0.76
1,2-Dibromo-3-chloropropane	0.2	0.02	<1.7	<1.7	<1.5	<1.5	<1.5	<2.2	<2.2	<2.2	<1.8
Dibromochloromethane	60	6	<0.81	<0.81	<1.9	<1.9	<1.9	<0.32	<0.50	<0.50	<2.6
1,2-Dibromoethane	0.05	0.005	<0.56	<0.56	<0.38	<0.38	<0.38	<0.16	<0.16	<0.16	<0.83
Dibromomethane			<0.60	<0.60	<0.48	<0.48	<0.48	<0.43	<0.43	<0.43	<0.94
1,2-Dichlorobenzene	600	60	<0.83	<0.83	<0.44	<0.44	<0.44	<0.50	<0.50	<0.50	<0.71
1,3-Dichlorobenzene	1,250	125	<0.87	<0.87	<0.45	<0.45	<0.45	<0.50	<0.50	<0.50	<0.63
1,4-Dichlorobenzene	75	15	<0.95	<0.95	<0.43	<0.43	<0.43	<0.50	<0.50	<0.50	<0.94
Dichlorodifluoromethane	1,000	200	<0.99	<0.99	<0.40	<0.40	<0.40	<0.16	<0.20	<0.20	<0.50
1,1-Dichloroethane	850	85	<0.75	<0.75	<0.28	<0.28	<0.28	<0.16	<0.24	<0.24	<0.27
1,2-Dichloroethane	5	0.5	<0.36	<0.36	<0.48	<0.48	<0.48	<0.17	<0.17	<0.17	<0.28
1,1-Dichloroethene	7	0.7	<0.57	<0.57	<0.43	<0.43	<0.43	<0.41	<0.41	<0.41	<0.24
cis-1,2-Dichloroethylene	70	7	<0.83	<0.83	<0.42	<0.42	<0.42	<0.26	<0.26	<0.26	<0.27
trans-1,2-Dichloroethylene	100	20	<0.89	<0.89	<0.37	<0.37	<0.37	<0.24	<0.26	<0.26	<1.1
1,2 Dichloropropane	5	0.5	<0.49	<0.49	<0.50	<0.50	<0.50	<0.23	<0.23	<0.23	<0.28
1,3-Dichloropropane	0.2	0.02	<0.61	<0.61	<0.46	<0.46	<0.46	<0.50	<0.50	<0.50	<0.83
2,2-Dichloropropane			<0.62	<0.62	<0.37	<0.37	<0.37	<0.48	<0.48	<0.48	<2.3
1,1-Dichloropropylene			<0.75	<0.75	<0.51	<0.51	<0.51	<0.44	<0.44	<0.44	<0.54
cis-1,3-Dichloropropylene	0.2	0.02	<0.20	<0.20	<0.29	<0.29	<0.29	<0.15	<0.50	<0.50	<3.6
trans-1,3-Dichloropropylene	0.2	0.02	<0.19	<0.19	<0.26	<0.26	<0.26	<0.23	<0.23	<0.23	<4.4
Diisopropyl ether			<0.76	<0.76	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.9
Ethylbenzene	700	140	<0.54	<0.54	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.32
Hexachloro-1,3-butadiene			<0.67	<0.67	<1.3	<1.3	<1.3	<2.1	<2.1	<2.1	<1.5
Isopropylbenzene			<0.59	<0.59	<0.34	<0.34	<0.34	<0.12	<0.14	<0.14	<1.7
p-Isopropyltoluene			<0.67	<0.67	<0.40	<0.40	<0.40	<0.13	<0.50	<0.50	<0.80
Methylene Chloride	5	0.5	<0.43	<0.43	<0.36	<0.36	<0.36	<0.23	<0.23	<0.23	<0.58
Methyl tert Butyl Ether	60	12	<0.61	<0.61	<0.49	<0.49	<0.49	<0.7	<0.17	<0.17	<1.2
Naphthalene	100	14	<0.89	<0.89	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1.2
n-Propylbenzene			<0.81	<0.81	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.81
Styrene	100	10	<0.86	<0.86	<0.35	<0.35	<0.35	<0.15	<0.50	<0.50	<3.0
1,1,1,2-Tetrachloroethane	70	7	<0.92	<0.92	<0.45	<0.45	<0.45	<0.18	<0.18	<0.18	<0.27
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.20	<0.20	<0.38	<0.38	<0.38	<0.25	<0.25	<0.25	<0.28
Tetrachloroethene	5	0.5	**16.1**	**6.8**	*4.4*	**11.6**	**12.4**	*2.0*	*1.7*	*4.3*	*1.2*
Toluene	800	160	<0.67	<0.67	<0.44	<0.44	<0.44	<0.50	<0.50	<0.50	<0.27
1,2,3-Trichlorobenzene			<0.74	<0.74	<0.77	<0.77	<0.77	<2.1	<2.1	<2.1	<2.2
1,2,4-Trichlorobenzene	70	14	<0.97	<0.97	<2.5	<2.5	<2.5	<2.2	<2.2	<2.2	<0.95
1,1,1-Trichloroethane	200	40	<0.90	<0.90	<0.44	<0.44	<0.44	<0.50	<0.50	<0.50	<0.24
1,1,2-Trichloroethane	5	0.5	<0.42	<0.42	<0.39	<0.39	<0.39	<0.16	<0.16	<0.16	<0.55
Trichloroethene	5	0.5	<0.48	<0.48	<0.43	<0.43	<0.43	<0.33	<0.33	<0.33	<0.26
Trichlorofluoromethane	3,490	698	<0.79	<0.79	<0.48	<0.48	<0.48	<0.17	<0.17	<0.17	<0.21
1,2,3-Trichloropropane	60	12	<0.99	<0.99	<0.47	<0.47	<0.47	<0.50	<0.50	<0.50	<0.59
Total Trimethylbenzenes	480	96	<1.80	<1.80	<3.07	<3.07	<3.07	<1.0	<1.0	<1.0	<1.71
Vinyl Chloride	0.2	0.02	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.17
Total Xylenes	2,000	400	<2.63	<2.63	<1.32	<1.32	<1.32	<1.5	<1.5	<1.5	<0.73

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
< = Concentration less than listed detection limit
NA= Not Analyzed
ES exceedences are in bold text
PAL exceedences are in italic text

Bold
Italic

j - Estimated value between Method Detection Limit (MDL) and Limit of Quantification (LOQ)

A.1.e
MW5 GROUNDWATER ANALYTICAL RESULTS
MOSINEE CLEANERS
735 OLD HIGHWAY 51
MOSINEE, WI

		Date	7/16/13	10/28/13	1/30/14	4/30/14	7/17/14	10/7/14	3/10/20
		Location	MW5						
VOCs (ug/L)	**ES**	**PAL**							
Benzene	5	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25
Bromobenzene			<0.48	<0.48	<0.48	<0.23	<0.23	<0.23	<0.24
Bromochloromethane			<0.49	<0.49	<0.49	<0.32	<0.34	<0.34	<0.36
Bromodichloromethane	0.6	0.06	<0.45	<0.45	<0.45	<0.50	<0.50	<0.50	<0.36
Bromoform	4.4	0.44	<0.23	<0.23	<0.23	<0.50	<0.50	<0.50	<4.0
Bromomethane	10	1	<0.43	<0.43	<0.43	<2.4	<2.4	<2.4	<0.97
n-Butylbenzene			<0.40	<0.40	<0.40	<0.22	<0.50	<0.50	<0.71
sec-Butylbenzene			<0.60	<0.60	<0.60	<2.2	<2.2	<2.2	<0.85
tert-Butylbenzene			<0.42	<0.42	<0.42	<0.18	<0.18	<0.18	<0.30
Carbon tetrachloride	5	0.5	<0.37	<0.37	<0.37	<0.50	<0.50	<0.50	<1.1
Chlorobenzene			<0.36	<0.36	<0.36	<0.50	<0.50	<0.50	<0.71
Chloroethane	400	80	<0.44	<0.44	<0.44	<0.37	<0.37	<0.37	<1.3
Chloroform	6	0.6	<0.69	<0.69	<0.69	<2.5	<2.5	<2.5	<1.3
Chloromethane	3	0.3	<0.39	<0.39	<0.39	<0.50	<0.50	<0.50	<2.2
2-Chlorotoluene			<0.48	<0.48	<0.48	<0.50	<0.50	<0.50	<0.93
4-Chlorotoluene			<0.48	<0.48	<0.48	<0.21	<0.21	<0.21	<0.76
1,2-Dibromo-3-chloropropane	0.2	0.02	<1.5	<1.5	<1.5	<2.2	<2.2	<2.2	<1.8
Dibromochloromethane	60	6	<1.9	<1.9	<1.9	<0.32	<0.50	<0.50	<2.6
1,2-Dibromoethane	0.05	0.005	<0.38	<0.38	<0.38	<0.16	<0.16	<0.16	<0.83
Dibromomethane			<0.48	<0.48	<0.48	<0.43	<0.43	<0.43	<0.94
1,2-Dichlorobenzene	600	60	<0.44	<0.44	<0.44	<0.50	<0.50	<0.50	<0.71
1,3-Dichlorobenzene	1,250	125	<0.45	<0.45	<0.45	<0.50	<0.50	<0.50	<0.63
1,4-Dichlorobenzene	75	15	<0.43	<0.43	<0.43	<0.50	<0.50	<0.50	<0.94
Dichlorodifluoromethane	1,000	200	<0.40	<0.40	<0.40	<0.16	<0.20	<0.20	<0.50
1,1-Dichloroethane	850	85	<0.28	<0.28	<0.28	<0.16	<0.24	<0.24	<0.27
1,2-Dichloroethane	5	0.5	<0.48	<0.48	<0.48	<0.17	<0.17	<0.17	<0.28
1,1-Dichloroethene	7	0.7	<0.43	<0.43	<0.43	<0.41	<0.41	<0.41	<0.24
cis-1,2-Dichloroethylene	70	7	<0.42	<0.42	<0.42	<0.26	<0.26	<0.26	<0.27
trans-1,2-Dichloroethylene	100	20	<0.37	<0.37	<0.37	<0.24	<0.26	<0.26	<1.1
1,2 Dichloropropane	5	0.5	<0.50	<0.50	<0.50	<0.23	<0.23	<0.23	<0.28
1,3-Dichloropropane	0.2	0.02	<0.46	<0.46	<0.46	<0.50	<0.50	<0.50	<0.83
2,2-Dichloropropane			<0.37	<0.37	<0.37	<0.48	<0.48	<0.48	<2.3
1,1-Dichloropropylene			<0.51	<0.51	<0.51	<0.44	<0.44	<0.44	<0.54
cis-1,3-Dichloropropylene	0.2	0.02	<0.29	<0.29	<0.29	<0.15	<0.50	<0.50	<3.6
trans-1,3-Dichloropropylene	0.2	0.02	<0.26	<0.26	<0.26	<0.23	<0.23	<0.23	<4.4
Diisopropyl ether			<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.9
Ethylbenzene	700	140	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.32
Hexachloro-1,3-butadiene			<1.3	<1.3	<1.3	<2.1	<2.1	<2.1	<1.5
Isopropylbenzene			<0.34	<0.34	<0.34	<0.12	<0.14	<0.14	<1.7
p-Isopropyltoluene			<0.40	<0.40	<0.40	<0.13	<0.50	<0.50	<0.80
Methylene Chloride	5	0.5	<0.36	<0.36	<0.36	<0.23	<0.23	<0.23	<0.58
Methyl tert Butyl Ether	60	12	<0.49	<0.49	<0.49	<0.7	<0.17	<0.17	<1.2
Naphthalene	100	14	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1.2
n-Propylbenzene			<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.81
Styrene	100	10	<0.35	<0.35	<0.35	<0.15	<0.50	<0.50	<3.0
1,1,1,2-Tetrachloroethane	70	7	<0.45	<0.45	<0.45	<0.18	<0.18	<0.18	<0.27
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.38	<0.38	<0.38	<0.25	<0.25	<0.25	<0.28
Tetrachloroethene	5	0.5	<0.47	<0.47	*1.7*	*0.71j*	*2.6*	*1.0*	<0.33
Toluene	800	160	<0.44	<0.44	<0.44	<0.50	<0.50	<0.50	<0.27
1,2,3-Trichlorobenzene			<0.77	<0.77	<0.77	<2.1	<2.1	<2.1	<2.2
1,2,4-Trichlorobenzene	70	14	<2.5	<2.5	<2.5	<2.2	<2.2	<2.2	<0.95
1,1,1-Trichloroethane	200	40	<0.44	<0.44	<0.44	<0.50	<0.50	<0.50	<0.24
1,1,2-Trichloroethane	5	0.5	<0.39	<0.39	<0.39	<0.16	<0.16	<0.16	<0.55
Trichloroethene	5	0.5	<0.43	<0.43	<0.43	<0.33	<0.33	<0.33	<0.26
Trichlorofluoromethane	3,490	698	<0.48	<0.48	<0.48	<0.17	<0.17	<0.17	<0.21
1,2,3-Trichloropropane	60	12	<0.47	<0.47	<0.47	<0.50	<0.50	<0.50	<0.59
Total Trimethylbenzenes	480	96	<3.07	<3.07	<3.07	<1.0	<1.0	<1.0	<1.71
Vinyl Chloride	0.2	0.02	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.17
Total Xylenes	2,000	400	<1.32	<1.32	<1.32	<1.5	<1.5	<1.5	<0.73

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
< = Concentration less than listed detection limit
NA= Not Analyzed
ES exceedences are in bold text **Bold**
PAL exceedences are in italic text *Italic*
j - Estimated value between Method Detection Limit (MDL) and Limit of Quantification (LOQ)

A.1.f
MW6 GROUNDWATER ANALYTICAL RESULTS
MOSINEE CLEANERS
735 OLD HIGHWAY 51
MOSINEE, WI

		Date	7/16/13	10/28/13	1/30/14	4/30/14	7/17/14	10/7/14	3/10/20
		Location	MW6						
VOCs (ug/L)	**ES**	**PAL**							
Benzene	5	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25
Bromobenzene			<0.48	<0.48	<0.48	<0.23	<0.23	<0.23	<0.24
Bromochloromethane			<0.49	<0.49	<0.49	<0.32	<0.34	<0.34	<0.36
Bromodichloromethane	0.6	0.06	<0.45	<0.45	<0.45	<0.50	<0.50	<0.50	<0.36
Bromoform	4.4	0.44	<0.23	<0.23	<0.23	<0.50	<0.50	<0.50	<4.0
Bromomethane	10	1	<0.43	<0.43	<0.43	<2.4	<2.4	<2.4	<0.97
n-Butylbenzene			<0.40	<0.40	<0.40	<0.22	<0.50	<0.50	<0.71
sec-Butylbenzene			<0.60	<0.60	<0.60	<2.2	<2.2	<2.2	<0.85
tert-Butylbenzene			<0.42	<0.42	<0.42	<0.18	<0.18	<0.18	<0.30
Carbon tetrachloride	5	0.5	<0.37	<0.37	<0.37	<0.50	<0.50	<0.50	<1.1
Chlorobenzene			<0.36	<0.36	<0.36	<0.50	<0.50	<0.50	<0.71
Chloroethane	400	80	<0.44	<0.44	<0.44	<0.37	<0.37	<0.37	<1.3
Chloroform	6	0.6	<0.69	<0.69	<0.69	<2.5	<2.5	<2.5	<1.3
Chloromethane	3	0.3	<0.39	<0.39	<0.39	<0.50	<0.50	<0.50	<2.2
2-Chlorotoluene			<0.48	<0.48	<0.48	<0.50	<0.50	<0.50	<0.93
4-Chlorotoluene			<0.48	<0.48	<0.48	<0.21	<0.21	<0.21	<0.76
1,2-Dibromo-3-chloropropane	0.2	0.02	<1.5	<1.5	<1.5	<2.2	<2.2	<2.2	<1.8
Dibromochloromethane	60	6	<1.9	<1.9	<1.9	<0.32	<0.50	<0.50	<2.6
1,2-Dibromoethane	0.05	0.005	<0.38	<0.38	<0.38	<0.16	<0.16	<0.16	<0.83
Dibromomethane			<0.48	<0.48	<0.48	<0.43	<0.43	<0.43	<0.94
1,2-Dichlorobenzene	600	60	<0.44	<0.44	<0.44	<0.50	<0.50	<0.50	<0.71
1,3-Dichlorobenzene	1,250	125	<0.45	<0.45	<0.45	<0.50	<0.50	<0.50	<0.63
1,4-Dichlorobenzene	75	15	<0.43	<0.43	<0.43	<0.50	<0.50	<0.50	<0.94
Dichlorodifluoromethane	1,000	200	<0.40	<0.40	<0.40	<0.16	<0.20	<0.20	<0.50
1,1-Dichloroethane	850	85	<0.28	<0.28	<0.28	<0.16	<0.24	<0.24	<0.27
1,2-Dichloroethane	5	0.5	<0.48	<0.48	<0.48	<0.17	<0.17	<0.17	<0.28
1,1-Dichloroethene	7	0.7	<0.43	<0.43	<0.43	<0.41	<0.41	<0.41	<0.24
cis-1,2-Dichloroethylene	70	7	<0.42	<0.42	<0.42	<0.26	<0.26	<0.26	<0.27
trans-1,2-Dichloroethylene	100	20	<0.37	<0.37	<0.37	<0.24	<0.26	<0.26	<1.1
1,2 Dichloropropane	5	0.5	<0.50	<0.50	<0.50	<0.23	<0.23	<0.23	<0.28
1,3-Dichloropropane	0.2	0.02	<0.46	<0.46	<0.46	<0.50	<0.50	<0.50	<0.83
2,2-Dichloropropane			<0.37	<0.37	<0.37	<0.48	<0.48	<0.48	<2.3
1,1-Dichloropropylene			<0.51	<0.51	<0.51	<0.44	<0.44	<0.44	<0.54
cis-1,3-Dichloropropylene	0.2	0.02	<0.29	<0.29	<0.29	<0.15	<0.50	<0.50	<3.6
trans-1,3-Dichloropropylene	0.2	0.02	<0.26	<0.26	<0.26	<0.23	<0.23	<0.23	<4.4
Diisopropyl ether			<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.9
Ethylbenzene	700	140	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.32
Hexachloro-1,3-butadiene			<1.3	<1.3	<1.3	<2.1	<2.1	<2.1	<1.5
Isopropylbenzene			<0.34	<0.34	<0.34	<0.12	<0.14	<0.14	<1.7
p-Isopropyltoluene			<0.40	<0.40	<0.40	<0.13	<0.50	<0.50	<0.80
Methylene Chloride	5	0.5	<0.36	<0.36	<0.36	<0.23	<0.23	<0.23	<0.58
Methyl tert Butyl Ether	60	12	<0.49	<0.49	<0.49	<0.7	<0.17	<0.17	<1.2
Naphthalene	100	14	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1.2
n-Propylbenzene			<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.81
Styrene	100	10	<0.35	<0.35	<0.35	<0.15	<0.50	<0.50	<3.0
1,1,1,2-Tetrachloroethane	70	7	<0.45	<0.45	<0.45	<0.18	<0.18	<0.18	<0.27
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.38	<0.38	<0.38	<0.25	<0.25	<0.25	<0.28
Tetrachloroethene	5	0.5	<0.47	*1.6*	<0.47	<0.50	<0.50	<0.50	<0.33
Toluene	800	160	<0.44	<0.44	<0.44	<0.50	<0.50	<0.50	<0.27
1,2,3-Trichlorobenzene			<0.77	<0.77	<0.77	<2.1	<2.1	<2.1	<2.2
1,2,4-Trichlorobenzene	70	14	<2.5	<2.5	<2.5	<2.2	<2.2	<2.2	<0.95
1,1,1-Trichloroethane	200	40	<0.44	<0.44	<0.44	<0.50	<0.50	<0.50	<0.24
1,1,2-Trichloroethane	5	0.5	<0.39	<0.39	<0.39	<0.16	<0.16	<0.16	<0.55
Trichloroethene	5	0.5	<0.43	<0.43	<0.43	<0.33	<0.33	<0.33	<0.26
Trichlorofluoromethane	3,490	698	<0.48	<0.48	<0.48	<0.17	<0.17	<0.17	<0.21
1,2,3-Trichloropropane	60	12	<0.47	<0.47	<0.47	<0.50	<0.50	<0.50	<0.59
Total Trimethylbenzenes	480	96	<3.07	<3.07	<3.07	<1.0	<1.0	<1.0	<1.71
Vinyl Chloride	0.2	0.02	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.17
Total Xylenes	2,000	400	<1.32	<1.32	<1.32	<1.5	<1.5	<1.5	<0.73

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
< = Concentration less than listed detection limit
NA= Not Analyzed
ES exceedences are in bold text — **Bold**
PAL exceedences are in italic text — *Italic*
j - Estimated value between Method Detection Limit (MDL) and Limit of Quantification (LOQ)

A.1.g
MW7 GROUNDWATER ANALYTICAL RESULTS
MOSINEE CLEANERS
735 OLD HIGHWAY 51
MOSINEE, WI

		Date	7/16/13	10/28/13	1/30/14	4/30/14	7/17/14	10/7/14	3/10/20
		Location	MW7						
VOCs (ug/L)	**ES**	**PAL**							
Benzene	5	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25
Bromobenzene			<0.48	<0.48	<0.48	<0.23	<0.23	<0.23	<0.24
Bromochloromethane			<0.49	<0.49	<0.49	<0.32	<0.34	<0.34	<0.36
Bromodichloromethane	0.6	0.06	<0.45	<0.45	<0.45	<0.50	<0.50	<0.50	<0.36
Bromoform	4.4	0.44	<0.23	<0.23	<0.23	<0.50	<0.50	<0.50	<4.0
Bromomethane	10	1	<0.43	<0.43	<0.43	<2.4	<2.4	<2.4	<0.97
n-Butylbenzene			<0.40	<0.40	<0.40	<0.22	<0.50	<0.50	<0.71
sec-Butylbenzene			<0.60	<0.60	<0.60	<2.2	<2.2	<2.2	<0.85
tert-Butylbenzene			<0.42	<0.42	<0.42	<0.18	<0.18	<0.18	<0.30
Carbon tetrachloride	5	0.5	<0.37	<0.37	<0.37	<0.50	<0.50	<0.50	<1.1
Chlorobenzene			<0.36	<0.36	<0.36	<0.50	<0.50	<0.50	<0.71
Chloroethane	400	80	<0.44	<0.44	<0.44	<0.37	<0.37	<0.37	<1.3
Chloroform	6	0.6	<0.69	<0.69	<0.69	<2.5	<2.5	<2.5	<1.3
Chloromethane	3	0.3	<0.39	<0.39	<0.39	<0.50	<0.50	<0.50	<2.2
2-Chlorotoluene			<0.48	<0.48	<0.48	<0.50	<0.50	<0.50	<0.93
4-Chlorotoluene			<0.48	<0.48	<0.48	<0.21	<0.21	<0.21	<0.76
1,2-Dibromo-3-chloropropane	0.2	0.02	<1.5	<1.5	<1.5	<2.2	<2.2	<2.2	<1.8
Dibromochloromethane	60	6	<1.9	<1.9	<1.9	<0.32	<0.50	<0.50	<2.6
1,2-Dibromoethane	0.05	0.005	<0.38	<0.38	<0.38	<0.16	<0.16	<0.16	<0.83
Dibromomethane			<0.48	<0.48	<0.48	<0.43	<0.43	<0.43	<0.94
1,2-Dichlorobenzene	600	60	<0.44	<0.44	<0.44	<0.50	<0.50	<0.50	<0.71
1,3-Dichlorobenzene	1,250	125	<0.45	<0.45	<0.45	<0.50	<0.50	<0.50	<0.63
1,4-Dichlorobenzene	75	15	<0.43	<0.43	<0.43	<0.50	<0.50	<0.50	<0.94
Dichlorodifluoromethane	1,000	200	<0.40	<0.40	<0.40	<0.16	<0.20	<0.20	<0.50
1,1-Dichloroethane	850	85	<0.28	<0.28	<0.28	<0.16	<0.24	<0.24	<0.27
1,2-Dichloroethane	5	0.5	<0.48	<0.48	<0.48	<0.17	<0.17	<0.17	<0.28
1,1-Dichloroethene	7	0.7	<0.43	<0.43	<0.43	<0.41	<0.41	<0.41	<0.24
cis-1,2-Dichloroethylene	70	7	<0.42	<0.42	<0.42	<0.26	<0.26	<0.26	<0.27
trans-1,2-Dichloroethylene	100	20	<0.37	<0.37	<0.37	<0.24	<0.26	<0.26	<1.1
1,2 Dichloropropane	5	0.5	<0.50	<0.50	<0.50	<0.23	<0.23	<0.23	<0.28
1,3-Dichloropropane	0.2	0.02	<0.46	<0.46	<0.46	<0.50	<0.50	<0.50	<0.83
2,2-Dichloropropane			<0.37	<0.37	<0.37	<0.48	<0.48	<0.48	<2.3
1,1-Dichloropropylene			<0.51	<0.51	<0.51	<0.44	<0.44	<0.44	<0.54
cis-1,3-Dichloropropylene	0.2	0.02	<0.29	<0.29	<0.29	<0.15	<0.50	<0.50	<3.6
trans-1,3-Dichloropropylene	0.2	0.02	<0.26	<0.26	<0.26	<0.23	<0.23	<0.23	<4.4
Diisopropyl ether			<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.9
Ethylbenzene	700	140	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.32
Hexachloro-1,3-butadiene			<1.3	<1.3	<1.3	<2.1	<2.1	<2.1	<1.5
Isopropylbenzene			<0.34	<0.34	<0.34	<0.12	<0.14	<0.14	<1.7
p-Isopropyltoluene			<0.40	<0.40	<0.40	<0.13	<0.50	<0.50	<0.80
Methylene Chloride	5	0.5	<0.36	<0.36	<0.36	<0.23	<0.23	<0.23	<0.58
Methyl tert Butyl Ether	60	12	<0.49	<0.49	<0.49	<0.7	<0.17	<0.17	<1.2
Naphthalene	100	14	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1.2
n-Propylbenzene			<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.81
Styrene	100	10	<0.35	<0.35	<0.35	<0.15	<0.50	<0.50	<3.0
1,1,1,2-Tetrachloroethane	70	7	<0.45	<0.45	<0.45	<0.18	<0.18	<0.18	<0.27
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.38	<0.38	<0.38	<0.25	<0.25	<0.25	<0.28
Tetrachloroethene	5	0.5	**7.2**	**7.9**	**5.2**	*4.3*	*4.4*	**7.8**	*0.87j*
Toluene	800	160	<0.44	<0.44	<0.44	<0.50	<0.50	<0.50	<0.27
1,2,3-Trichlorobenzene			<0.77	<0.77	<0.77	<2.1	<2.1	<2.1	<2.2
1,2,4-Trichlorobenzene	70	14	<2.5	<2.5	<2.5	<2.2	<2.2	<2.2	<0.95
1,1,1-Trichloroethane	200	40	<0.44	<0.44	<0.44	<0.50	<0.50	<0.50	<0.24
1,1,2-Trichloroethane	5	0.5	<0.39	<0.39	<0.39	<0.16	<0.16	<0.16	<0.55
Trichloroethene	5	0.5	<0.43	<0.43	<0.43	<0.33	<0.33	<0.33	<0.26
Trichlorofluoromethane	3,490	698	<0.48	<0.48	<0.48	<0.17	<0.17	<0.17	<0.21
1,2,3-Trichloropropane	60	12	<0.47	<0.47	<0.47	<0.50	<0.50	<0.50	<0.59
Total Trimethylbenzenes	480	96	<3.07	<3.07	<3.07	<1.0	<1.0	<1.0	<1.71
Vinyl Chloride	0.2	0.02	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.17
Total Xylenes	2,000	400	<1.32	<1.32	<1.32	<1.5	<1.5	<1.5	<0.73

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
< = Concentration less than listed detection limit
NA= Not Analyzed
ES exceedences are in bold text
PAL exceedences are in italic text

Bold
Italic

j - Estimated value between Method Detection Limit (MDL) and Limit of Quantification (LOQ)

A.1.h
PZ1 GROUNDWATER ANALYTICAL RESULTS
MOSINEE CLEANERS
735 OLD HIGHWAY 51
MOSINEE, WI

		Date	7/16/13	10/28/13	1/30/14	4/30/14	7/17/14	10/7/14	3/10/20
		Location	PZ1						
VOCs (ug/L)	**ES**	**PAL**							
Benzene	5	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25
Bromobenzene			<0.48	<0.48	<0.48	<0.23	<0.23	<0.23	<0.24
Bromochloromethane			<0.49	<0.49	<0.49	<0.32	<0.34	<0.34	<0.36
Bromodichloromethane	0.6	0.06	<0.45	<0.45	<0.45	<0.50	<0.50	<0.50	<0.36
Bromoform	4.4	0.44	<0.23	<0.23	<0.23	<0.50	<0.50	<0.50	<4.0
Bromomethane	10	1	<0.43	<0.43	<0.43	<2.4	<2.4	<2.4	<0.97
n-Butylbenzene			<0.40	<0.40	<0.40	<0.22	<0.50	<0.50	<0.71
sec-Butylbenzene			<0.60	<0.60	<0.60	<2.2	<2.2	<2.2	<0.85
tert-Butylbenzene			<0.42	<0.42	<0.42	<0.18	<0.18	<0.18	<0.30
Carbon tetrachloride	5	0.5	<0.37	<0.37	<0.37	<0.50	<0.50	<0.50	<1.1
Chlorobenzene			<0.36	<0.36	<0.36	<0.50	<0.50	<0.50	<0.71
Chloroethane	400	80	<0.44	<0.44	<0.44	<0.37	<0.37	<0.37	<1.3
Chloroform	6	0.6	<0.69	<0.69	<0.69	<2.5	<2.5	<2.5	<1.3
Chloromethane	3	0.3	<0.39	<0.39	<0.39	<0.50	<0.50	<0.50	<2.2
2-Chlorotoluene			<0.48	<0.48	<0.48	<0.50	<0.50	<0.50	<0.93
4-Chlorotoluene			<0.48	<0.48	<0.48	<0.21	<0.21	<0.21	<0.76
1,2-Dibromo-3-chloropropane	0.2	0.02	<1.5	<1.5	<1.5	<2.2	<2.2	<2.2	<1.8
Dibromochloromethane	60	6	<1.9	<1.9	<1.9	<0.32	<0.50	<0.50	<2.6
1,2-Dibromoethane	0.05	0.005	<0.38	<0.38	<0.38	<0.16	<0.16	<0.16	<0.83
Dibromomethane			<0.48	<0.48	<0.48	<0.43	<0.43	<0.43	<0.94
1,2-Dichlorobenzene	600	60	<0.44	<0.44	<0.44	<0.50	<0.50	<0.50	<0.71
1,3-Dichlorobenzene	1,250	125	<0.45	<0.45	<0.45	<0.50	<0.50	<0.50	<0.63
1,4-Dichlorobenzene	75	15	<0.43	<0.43	<0.43	<0.50	<0.50	<0.50	<0.94
Dichlorodifluoromethane	1,000	200	<0.40	<0.40	<0.40	<0.16	<0.20	<0.20	<0.50
1,1-Dichloroethane	850	85	<0.28	<0.28	<0.28	<0.16	<0.24	<0.24	<0.27
1,2-Dichloroethane	5	0.5	<0.48	<0.48	<0.48	<0.17	<0.17	<0.17	<0.28
1,1-Dichloroethene	7	0.7	<0.43	<0.43	<0.43	<0.41	<0.41	<0.41	<0.24
cis-1,2-Dichloroethylene	70	7	<0.42	<0.42	<0.42	<0.26	<0.26	<0.26	<0.27
trans-1,2-Dichloroethylene	100	20	<0.37	<0.37	<0.37	<0.24	<0.26	<0.26	<1.1
1,2 Dichloropropane	5	0.5	<0.50	<0.50	<0.50	<0.23	<0.23	<0.23	<0.28
1,3-Dichloropropane	0.2	0.02	<0.46	<0.46	<0.46	<0.50	<0.50	<0.50	<0.83
2,2-Dichloropropane			<0.37	<0.37	<0.37	<0.48	<0.48	<0.48	<2.3
1,1-Dichloropropylene			<0.51	<0.51	<0.51	<0.44	<0.44	<0.44	<0.54
cis-1,3-Dichloropropylene	0.2	0.02	<0.29	<0.29	<0.29	<0.15	<0.50	<0.50	<3.6
trans-1,3-Dichloropropylene	0.2	0.02	<0.26	<0.26	<0.26	<0.23	<0.23	<0.23	<4.4
Diisopropyl ether			<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.9
Ethylbenzene	700	140	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.32
Hexachloro-1,3-butadiene			<1.3	<1.3	<1.3	<2.1	<2.1	<2.1	<1.5
Isopropylbenzene			<0.34	<0.34	<0.34	<0.12	<0.14	<0.14	<1.7
p-Isopropyltoluene			<0.40	<0.40	<0.40	<0.13	<0.50	<0.50	<0.80
Methylene Chloride	5	0.5	<0.36	<0.36	<0.36	<0.23	<0.23	<0.23	<0.58
Methyl tert Butyl Ether	60	12	<0.49	<0.49	<0.49	<0.7	<0.17	<0.17	<1.2
Naphthalene	100	14	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1.2
n-Propylbenzene			<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.81
Styrene	100	10	<0.35	<0.35	<0.35	<0.15	<0.50	<0.50	<3.0
1,1,1,2-Tetrachloroethane	70	7	<0.45	<0.45	<0.45	<0.18	<0.18	<0.18	<0.27
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.38	<0.38	<0.38	<0.25	<0.25	<0.25	<0.28
Tetrachloroethene	5	0.5	*4.8*	*4.4*	*3.4*	*2.6*	*2.9*	*3.1*	0.42j
Toluene	800	160	<0.44	<0.44	<0.44	<0.50	<0.50	<0.50	<0.27
1,2,3-Trichlorobenzene			<0.77	<0.77	<0.77	<2.1	<2.1	<2.1	<2.2
1,2,4-Trichlorobenzene	70	14	<2.5	<2.5	<2.5	<2.2	<2.2	<2.2	<0.95
1,1,1-Trichloroethane	200	40	<0.44	<0.44	<0.44	<0.50	<0.50	<0.50	<0.24
1,1,2-Trichloroethane	5	0.5	<0.39	<0.39	<0.39	<0.16	<0.16	<0.16	<0.55
Trichloroethene	5	0.5	<0.43	<0.43	<0.43	<0.33	<0.33	<0.33	<0.26
Trichlorofluoromethane	3,490	698	<0.48	<0.48	<0.48	<0.17	<0.17	<0.17	<0.21
1,2,3-Trichloropropane	60	12	<0.47	<0.47	<0.47	<0.50	<0.50	<0.50	<0.59
Total Trimethylbenzenes	480	96	<3.07	<3.07	<3.07	<1.0	<1.0	<1.0	<1.71
Vinyl Chloride	0.2	0.02	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.17
Total Xylenes	2,000	400	<1.32	<1.32	<1.32	<1.5	<1.5	<1.5	<0.73

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
< = Concentration less than listed detection limit
NA= Not Analyzed
ES exceedences are in bold text **Bold**
PAL exceedences are in italic text *Italic*
j - Estimated value between Method Detection Limit (MDL) and Limit of Quantification (LOQ)

A.1.i
GROUNDWATER FIELD MEASUREMENTS
MOSINEE CLEANERS
735 OLD HIGHWAY 51
MOSINEE, WI

Date	1/23/12	4/9/12	7/16/13	10/28/13	1/30/14	4/30/14	7/17/14	10/7/14	3/10/20	1/23/12	4/9/12	7/16/13	10/28/13	1/30/14	4/30/14	7/17/14	10/7/14	3/10/20
Location	**MW1**									**MW2**								
Temperature (^{o}F)	52.30	50.05	55.04	59.95	49.93	45.42	54.23	61.41	47.8	51.38	48.98	57.68	58.97	49.74	45.37	55.94	59.9	45.9
Conductivity (ms/cm)	813	877	1427	895	1099	1408	1579	792	91.1	474	591	657	531	541	1476	554	400	265.7
Dissolved Oxygen (mg/L)	5.18	8.31	6.31	6.73	7.33	8.21	6.9	7.19	5.77	8.56	7.88	5.83	6.29	6.37	7.83	5.59	6.35	8.30
pH	6.41	5.98	5.82	7.10	5.38	6.12	6.75	6.04	6.24	6.66	6.15	6.23	7.3	5.68	6.17	6.51	6.25	6.45
Redox Potential (mV)	144.3	124.0	172.0	-36.3	222.2	250.4	-35.3	115.6	145.5	168.9	116.0	177.1	-39.0	197.6	244.7	-14.2	98.5	135.4

Date	1/23/12	4/9/12	7/16/13	10/28/13	1/30/14	4/30/14	7/17/14	10/7/14	1/23/12	4/9/12	7/16/13	10/28/13	1/30/14	4/30/14	7/17/14	10/7/14	3/10/20
Location	**MW3**								**MW4**								
Temperature (^{o}F)	52.29	50.16	53.66	58.45	52.05	47.74	53.92	57.75	49.33	48.94	52.93	53.41	47.48	48.98	51.79	53.54	46.3
Conductivity (ms/cm)	1157	1009	1408	1421	1649	1403	1830	1343	807	602	551	701	918	894	565	556	126.1
Dissolved Oxygen (mg/L)	5.62	6.24	5.64	4.89	5.13	6.26	5.39	9.35	6.6	6.07	5.61	6.02	6.55	5.43	5.33	5.74	6.25
pH	6.55	5.91	5.59	7.06	5.54	6.02	6.07	5.83	6.4	5.97	6.19	6.83	6.70	6.19	6.06	5.99	6.22
Redox Potential (mV)	164.9	136.3	199.8	-48.4	225.7	242.3	-9.7	121.6	142.7	118.5	141.3	-23.7	-81.7	241.9	5.4	182.3	138.1

Date	7/16/13	10/28/13	1/30/14	4/30/14	7/17/14	10/7/14	3/10/20	7/16/13	10/28/13	1/30/14	4/30/14	7/17/14	10/7/14	3/10/20
Location	**MW5**							**MW6**						
Temperature (^{o}F)	54.82	54.58	44.41	43.89	52.21	54.49	44.6	54.84	57.17	47.66	46.42	52.1	56.91	46.9
Conductivity (ms/cm)	509	546	1254	774	1217	674	695.1	511	453	466	904	463	435	263.8
Dissolved Oxygen (mg/L)	8.19	8.42	8.36	7.24	2.9	8.21	6.32	6.2	4.25	4.72	6.27	1.4	4.35	5.89
pH	6.82	4.85	5.26	6.25	6.16	6.33	6.13	6.28	6.00	5.95	5.97	6.72	5.92	6.36
Redox Potential (mV)	127.9	141.6	42.4	247.3	4.2	81.1	140.4	162.6	12.5	69.3	251.5	-38.3	91.5	117.5

Date	7/16/13	10/28/13	1/30/14	4/30/14	7/17/14	10/7/14	3/10/20	7/16/13	10/28/13	1/30/14	4/30/14	7/17/14	10/7/14	3/10/20
Location	**MW7**							**PZ1**						
Temperature (^{o}F)	59.61	55.52	51.70	49.33	52.3	54.62	48.1	59.61	52.82	52.24	48.84	52.82	56.53	56.53
Conductivity (ms/cm)	763	745	729	817	880	797	362.7	763	806	769	807	896	752	752
Dissolved Oxygen (mg/L)	5.53	5.67	4.03	4.72	6.32	6.12	3.66	5.53	4.11	4.38	4.61	3.34	6.44	6.44
pH	6.01	7.27	5.54	6.17	6.44	5.95	6.11	6.01	7.43	6.00	6.13	6.54	5.97	5.97
Redox Potential (mV)	120.3	-44.1	195.0	239.1	-22.7	127	150.3	120.3	-57.9	178.5	244.7	-38	121	121

A.2.a

SOIL ANALYTICAL RESULTS - INITIAL INVESTIGATION - NORTHERN ENVIRONMENTAL
MOSINEE CLEANERS
735 OLD HIGHWAY 51
MOSINEE, WI

		Date-->	**8/26/08**	**8/26/08**	**8/26/08**	**8/26/08**
		Boring-->	**B100**	**B200**	**B300**	**B400**
		Sample Depth--(Feet)>	**0-2**	**4-6**	**4-6**	**2-4**
		Sampler-->	**Northern**	**Northern**	**Northern**	**Northern**
		Saturated/Unsaturated-->	**Unsaturated**	**Unsaturated**	**Unsaturated**	**Unsaturated**
VOCs (ug/kg)	NTEDC	GW				
Benzene	1,600	5.1	<20	<20	<20	<20
Ethylbenzene	8,020	1,570	<16	<16	<16	<16
Isopropylbenzene	NS	NS	<30	<30	<30	<30
MTBE	63,800	27	<23	<23	<23	<23
Naphthalene	5,520	658.7	<117	<117	<117	<117
Total Xylenes	260,000	3,960	<48	<48	<48	<48
n-Propylbenzene	NS	NS	<29	<29	<29	<29
Tetrachloroethene	33,000	4.5	**230**	**63**	<18	**410**
Toluene	818,000	1,107.2	<23	<23	<23	<23
Trichloroethene	1,300	3.6	<20	<20	<20	<20
Vinyl Chloride	67	0.1	<17	<17	<17	<17

Notes:

NTEDC - Not To Exceed Direct Contact Residual Contaminant Level (RCL) - Non-Industrial

GW - RCL Protective of Groundwater Quality

< - Concentration below listed laboratory detection limit

GW RCL exceedences are bold **Bold**

NTEDC RCL exceedances are outlined in bold **Bold**

NS - No Standard

j- Estimated Value between detection limit and quantification limit

A.2.b
SOIL ANALYTICAL RESULTS - GEOPROBES AND SOIL BORINGS
MOSINEE CLEANERS
735 OLD HIGHWAY 51
MOSINEE, WI

Date-->			**11/2/11**	**11/2/11**	**11/2/11**	**11/2/11**	**11/2/11**	**11/2/11**	**11/2/11**	**11/2/11**	**11/2/11**	**1/3/12**	**1/3/12**	**7/10/13**	**11/1/13**	**11/1/13**	**11/1/13**	**6/26/20**
Boring-->			**GP-1**	**GP-1**	**GP-2**	**GP-3**	**GP-3**	**GP-4**	**GP-4**	**GP-5**	**GP-5**	**MW1**	**MW4**	**PZ1**	**GP-6**	**GP-7**	**SS1**	**SS-1A**
Sample Depth--(Feet)>			**6-8'**	**12-13'**	**8-10'**	**8-10'**	**14-15'**	**4-6'**	**12-14'**	**6-8'**	**14-16'**	**5-7'**	**10-12'**	**10-12.25**	**10-12'**	**8-10'**	**0.5**	**0.5**
Sampler-->			**REI**	**REI**	**REI**	**REI**	**REI**	**REI**	**REI**	**REI**	**REI**	**REI**	**REI**	**REI**	**REI**	**REI**	**REI**	**REI**
Saturated/Unsaturated-->			**Unsaturated**	**Unsaturated**	**Unsaturated**	**Unsaturated**	**Unsaturated**	**Unsaturated**	**Unsaturated**	**Unsaturated**	**Unsaturated**	**Unsaturated**	**Unsaturated**	**Unsaturated**	**Unsaturated**	**Unsaturated**	**Unsaturated**	**Unsaturated**
VOC's (ug/kg)	NTEDC	GW																
Benzene	7,410	5.1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Bromobenzene	679,000	NS	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Bromochloromethane	976,000	NS	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Bromodichloromethane	1,960	0.3	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Bromoform	218,000	2.3	<25.9	<25.9	<25.9	<25.9	<25.9	<25.9	<25.9	<32.0	<25.9	<25.9	<25.9	<25.9	<25.0	<25.0	<25.0	<25.0
Bromomethane	46,000	5.1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<63.8
n-Butylbenzene	108,000	NS	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<49.9	<40.4	<40.4	<40.4	<40.4	<25.0	<25.0	<25.0	<30.0
sec-Butylbenzene	145,000	NS	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
tert-Butylbenzene	183,000	NS	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Carbon Tetrachloride	NS	3.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Chlorobenzene	761,000	NS	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Chloroethane	NS	226.6	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	43.4j	<25.0	<25.0	<25.0	<46.4
Chloroform	2,130	3.3	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<47.5
Chloromethane	72,000	15.5	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NS	NS	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
4-Chlorotoluene	NS	NS	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,2 Dibromo-3-chloropropane	99	0.2	<82.3	<82.3	<82.3	<82.3	<82.3	<82.3	<82.3	<102	<82.3	<82.3	<82.3	<82.3	<49.8	<49.8	<49.8	<237
Dibromochloromethane	4,400	32	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<229
1,2-Dibromoethane	230	0.0282	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Dibromomethane	NS	NS	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,2-Dichlorobenzene	376,000	1,168	<44.4	<44.4	<44.4	<44.4	<44.4	<44.4	<44.4	<54.8	<44.4	<44.4	<44.4	<44.4	<25.0	<25.0	<25.0	<25.0
1,3-Dichlorobenzene	297,000	1,152.2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,4-Dichlorobenzene	17,500	144	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Dichlorodifluoromethane	571,000	3,073.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,1-Dichloroethane	23,700	482.6	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,2-Dichloroethane	3,030	2.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,1-Dichloroethylene	1,190,000	5	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
cis-1,2-Dichloroethylene	2,040,000	41.2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
trans-1,2-Dichloroethylene	976,000	58.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,2-Dichloropropane	6,620	3.3	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,3-Dichloropropane	1,490,000	0.3	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2,2-Dichloropropane	NS	NS	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,1-Dichloropropylene	NS	NS	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
cis-1,3-Dichloropropylene	1,220,000	0.3	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<42.3
trans-1,3-Dichloropropylene	1,570,000	0.3	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
(di)isopropyl ether	2,230,000	NS	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Ethylbenzene	37,000	1,570	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Hexachloro (1,3) butadiene	NS	NS	<26.4	<26.4	<26.4	<26.4	<26.4	<26.4	<26.4	<30.9	<26.4	<26.4	<26.4	<26.4	<25.0	<25.0	<25.0	<58.7
Isopropylbenzene	NS	NS	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
p-Isopropyltoluene	162,000	NS	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Methylene Chloride	72,100	2.6	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.3
Methly tert Butyl Ether	293,000	27	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Naphthalene	26,000	658.7	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<27.3
n-Propylbenzene	NS	NS	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Styrene	867,000	220	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,1,1,2-Tetrachloroethane	12,900	53.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,1,2,2-Tetrachloroethane	3,690	0.2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Tetrachloroethene	3,120	4.5	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	**1,580**	**1,020**
Toluene	818,000	1,107.2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	55.0[j]	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,2,3-Trichlorobenzene	151,000	NS	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<47.3
1,2,4-Trichlorobenzene	98,700	408	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<41.7
1,1,1-Trichloroethane	640,000	140.2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,1,2-Trichloroethane	7,340	3.2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Trichloroethene	8,810	3.6	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Trichlorofluoromethane	1,230,000	4,474.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,2,3-Trichloropropane	95	NS	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<37.4
1,2,4-Trimethylbenzene	219,000	1,378.2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,3,5-Trimethylbenzene	182,000		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Vinyl Chloride	2,030	0.1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<30.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Xylenes (Total)	258,000	3,940	<75	<75	<75	<75	<75	<75	<75	<92.3	<75	<75	<75	<75	<75	<75	<75	<75

Notes:

NTEDC - Not To Exceed Direct Contact Residual Contaminant Level (RCL) - Non-Industrial

GW - RCL Protective of Groundwater Quality

< - Concentration below listed laboratory detection limit

GW RCL exceedences are bold **Bold**

NTEDC RCL exceedances are outlined in bold **Bold**

NS - No Standard

j- Estimated Value between detection limit and quantification limit

A.3
RESIDUAL SOIL CONTAMINATION
MOSINEE CLEANERS
735 OLD HIGHWAY 51
MOSINEE, WI

			Date-->	8/26/08	8/26/08	8/26/08	11/1/13	6/26/20
			Boring-->	B100	B200	B400	SS1	SS-1A
			Sample Depth--(Feet)>	0-2	4-6	2-4	0.5	0.5
			Sampler-->	Northern	Northern	Northern	REI	REI
			Saturated/Unsaturated-->	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
VOC's (ug/kg)	NTEDC	GW						
Benzene	7,410	5.1		<20	<20	<20	<25.0	<25.0
Bromobenzene	679,000	NS		NA	NA	NA	<25.0	<25.0
Bromochloromethane	976,000	NS		NA	NA	NA	<25.0	<25.0
Bromodichloromethane	1,960	0.3		NA	NA	NA	<25.0	<25.0
Bromoform	218,000	2.3		NA	NA	NA	<25.0	<25.0
Bromomethane	46,000	5.1		NA	NA	NA	<25.0	<63.8
n-Butylbenzene	108,000	NS		NA	NA	NA	<25.0	<30.0
sec-Butylbenzene	145,000	NS		NA	NA	NA	<25.0	<25.0
tert-Butylbenzene	183,000	NS		NA	NA	NA	<25.0	<25.0
Carbon Tetrachloride	NS	3.9		NA	NA	NA	<25.0	<25.0
Chlorobenzene	761,000	NS		NA	NA	NA	<25.0	<25.0
Chloroethane	NS	226.6		NA	NA	NA	<25.0	<46.4
Chloroform	2,130	3.3		NA	NA	NA	<25.0	<47.5
Chloromethane	72,000	15.5		NA	NA	NA	<25.0	<25.0
2-Chlorotoluene	NS	NS		NA	NA	NA	<25.0	<25.0
4-Chlorotoluene	NS	NS		NA	NA	NA	<25.0	<25.0
1,2 Dibromo-3-chloropropane	99	0.2		NA	NA	NA	<49.8	<237
Dibromochloromethane	4,400	32		NA	NA	NA	<25.0	<229
1,2-Dibromoethane	230	0.0282		NA	NA	NA	<25.0	<25.0
Dibromomethane	NS	NS		NA	NA	NA	<25.0	<25.0
1,2-Dichlorobenzene	376,000	1,168		NA	NA	NA	<25.0	<25.0
1,3-Dichlorobenzene	297,000	1,152.2		NA	NA	NA	<25.0	<25.0
1,4-Dichlorobenzene	17,500	144		NA	NA	NA	<25.0	<25.0
Dichlorodifluoromethane	571,000	3,073.9		NA	NA	NA	<25.0	<25.0
1,1-Dichloroethane	23,700	482.6		NA	NA	NA	<25.0	<25.0
1,2-Dichloroethane	3,030	2.8		NA	NA	NA	<25.0	<25.0
1,1-Dichloroethylene	1,190,000	5		NA	NA	NA	<25.0	<25.0
cis-1,2-Dichloroethylene	2,040,000	41.2		NA	NA	NA	<25.0	<25.0
trans-1,2-Dichloroethylene	976,000	58.8		NA	NA	NA	<25.0	<25.0
1,2-Dichloropropane	6,620	3.3		NA	NA	NA	<25.0	<25.0
1,3-Dichloropropane	1,490,000	0.3		NA	NA	NA	<25.0	<25.0
2,2-Dichloropropane	NS	NS		NA	NA	NA	<25.0	<25.0
1,1-Dichloropropylene	NS	NS		NA	NA	NA	<25.0	<25.0
cis-1,3-Dichloropropylene	1,220,000	0.3		NA	NA	NA	<25.0	<42.3
trans-1,3-Dichloropropylene	1,570,000	0.3		NA	NA	NA	<25.0	<25.0
(di)isopropyl ether	2,230,000	NS		NA	NA	NA	<25.0	<25.0
Ethylbenzene	37,000	1,570		<16	<16	<16	<25.0	<25.0
Hexachloro (1,3) butadiene	NS	NS		NA	NA	NA	<25.0	<58.7
Isopropylbenzene	NS	NS		<30	<30	<30	<25.0	<25.0
p-Isopropyltoluene	162,000	NS		NA	NA	NA	<25.0	<25.0
Methylene Chloride	72,100	2.6		NA	NA	NA	<25.0	<26.3
Methly tert Butyl Ether	293,000	27		<23	<23	<23	<25.0	<25.0
Naphthalene	26,000	658.7		<117	<117	<117	<25.0	<27.3
n-Propylbenzene	NS	NS		<29	<29	<29	<25.0	<25.0
Styrene	867,000	220		NA	NA	NA	<25.0	<25.0
1,1,1,2-Tetrachloroethane	12,900	53.4		NA	NA	NA	<25.0	<25.0
1,1,2,2-Tetrachloroethane	3,690	0.2		NA	NA	NA	<25.0	<25.0
Tetrachloroethene	3,120	4.5		**230**	**63**	**410**	**1,580**	**1,020**
Toluene	818,000	1,107.2		<23	<23	<23	<25.0	<25.0
1,2,3-Trichlorobenzene	151,000	NS		NA	NA	NA	<25.0	<47.3
1,2,4-Trichlorobenzene	98,700	408		NA	NA	NA	<25.0	<41.7
1,1,1-Trichloroethane	640,000	140.2		NA	NA	NA	<25.0	<25.0
1,1,2-Trichloroethane	7,340	3.2		NA	NA	NA	<25.0	<25.0
Trichloroethene	8,810	3.6		<20	<20	<20	<25.0	<25.0
Trichlorofluoromethane	1,230,000	4,474.8		NA	NA	NA	<25.0	<25.0
1,2,3-Trichloropropane	95	NS		NA	NA	NA	<25.0	<37.4
1,2,4-Trimethylbenzene	219,000	1,378.2		NA	NA	NA	<25.0	<25.0
1,3,5-Trimethylbenzene	182,000			NA	NA	NA	<25.0	<25.0
Vinyl Chloride	2,030	0.1		<17	<17	<17	<25.0	<25.0
Xylenes (Total)	258,000	3,940		<48	<48	<48	<75	<75

Notes:

NTEDC - Not To Exceed Direct Contact Residual Contaminant Level (RCL) - Non-Industrial

GW - RCL Protective of Groundwater Quality

< - Concentration below listed laboratory detection limit

GW RCL exceedences are bold **Bold**

NTEDC RCL exceedances are outlined in bold

NS - No Standard

j- Estimated Value between detection limit and quantification limit

A.4
SUB-SLAB & SEWER LINE VAPOR SAMPLING RESULTS
MOSINEE CLEANERS
735 OLD HIGHWAY 51
MOSINEE, WI

VOCs (ug/m^3)	Screening Levels	4/23/12	6/10/19	3/4/20	6/24/20	6/26/20	2/25/21	9/30/20
	Non-Residential	VP-1						Sewer
Acetone	1,400,000	54.6	SVE System Startup	44	SVE System Shutdown	209	23.7	16.2
Benzene	160	<13.1		5.1		7.1	0.51	5.2
Carbon Tetrachloride	200	<25.9		0.57		0.57j	<0.307	9.6
Chloroform	53	<40.0		<0.3		1.12	<0.3	231
Chloromethane	3,900	<17.0		1.26j		5.1	<0.831	7.8
Dichlorodifluoromethane	4,400	<40.8		2.62		9.7	2.47	2.77
1,1-Dichloroethane	770	<33.1		<0.187		<0.187	<0.187	<0.374
1,2-Dichloroethane	47	<16.6		<0.24		0.32	<0.24	<0.48
1,1-Dichloroethelyene	8,800	<32.7		<0.21		<0.21	<0.21	<0.42
cis-1,2 Dichloroethene	NS	<32.7		<0.197		<0.197	<0.197	<0.394
trans-1,2-Dichloroethene	2600	<32.7		<0.231		<0.231	<0.231	<0.462
Ethylbenzene	490	47.8		6.2		35	0.78	8.9
n-Heptane	NS	50.0		4.5		13.2	0.86	7.8
n-Hexane	31,000	<29.1		3.3		24.5	5.0	10.4
Methylene Chloride	2,600	<28.7		<15		<15	<15	<30
Naphthalene	36	NA		2.25		11.8	1.47j	5.8
Tetrachloroethene	1,800	**2,270**		12.6		108	410	18.5
Toluene	220,000	124		42		170	6.7	38
1,1,1-Trichloroethane	220,000	<44.8		<0.249		<0.249	<0.249	<0.498
Trichloroethene	88	25.1		<0.237		<0.237	<0.237	4.1
Trichlorofluoromethane	31,000	<46.1		2.25		13	2.36	2.7
1,2,4-Trimethylbenzene	310	85.1		12		80	4.5	26.5
1,3,5-Trimethylbenzene	NS	<40.4		3.3		19.9	1.13	6
Vinyl Chloride	280	<10.5		<0.148		<0.148	<0.148	<0.296
m&p-Xylene	4,400	92.0		22.1		119	2.12	32
o-Xylene	4,400	<35.6		9.9		54	1.0	14.1

NS - No Standard

NA- Not Analyzed

Bold Exceeds Residential Screening Level

A.6
WATER LEVEL ELEVATIONS
MOSINEE CLEANERS
735 OLD HIGHWAY 51
MOSINEE, WI

	MW1	MW2	MW3	MW4	MW5	MW6	MW7	PZ1
Surface Elevation	1154.84	1155.00	1154.78	1152.03	1150.30	1152.05	1153.84	1153.84
Top of Casing Elevation	1154.16	1154.60	1154.11	1151.14	1149.89	1151.49	1152.95	1153.52
Top of Screen Elevation	1144.63	1145.13	1144.68	1141.60	1141.35	1142.85	1144.29	1119.49
Bottom of Screen Elevation	1134.63	1135.13	1134.68	1131.60	1130.85	1132.35	1133.79	1114.49
Depth to Water (feet)								
1/23/12	13.30	14.51	13.37	12.78	NI	NI	NI	NI
4/9/12	12.96	14.12	13.07	12.28	NI	NI	NI	NI
7/16/13	12.07	13.11	12.06	11.08	10.27	11.42	12.05	12.35
10/28/13	12.98	14.31	12.99	12.11	11.1	12.56	12.83	13.18
1/30/14	13.91	15.20	13.90	12.70	11.58	13.14	13.46	14.11
4/30/14	11.19	12.08	11.27	10.31	9.43	10.56	11.19	11.58
7/17/14	12.83	13.99	12.89	11.78	10.82	12.11	12.63	13.07
10/7/14	12.37	13.65	12.36	11.45	10.44	11.85	12.32	12.75
3/10/20	12.55	14.03	NM	11.82	10.61	12.21	12.65	12.27
Groundwater Elevation (feet)								
1/23/12	1140.86	1140.09	1140.74	1138.36	NI	NI	NI	NI
4/9/12	1141.20	1140.48	1141.04	1138.86	NI	NI	NI	NI
7/16/13	1142.09	1141.49	1142.05	1140.06	1139.62	1140.07	1140.90	1141.17
10/28/13	1141.18	1140.29	1141.12	1139.03	1138.79	1138.93	1140.12	1140.34
1/30/14	1140.25	1139.40	1140.21	1138.44	1138.31	1138.35	1139.49	1139.41
4/30/14	1142.97	1142.52	1142.84	1140.83	1140.46	1140.93	1141.76	1141.94
7/17/14	1141.33	1140.61	1141.22	1139.36	1139.07	1139.38	1140.32	1140.45
10/7/14	1141.79	1140.95	1141.75	1139.69	1139.45	1139.64	1140.63	1140.77
3/10/20	1141.61	1140.57	NM	1139.32	1139.28	1139.28	1140.30	1141.25

NM = Not Measured
NI = Not Installed

A.7.a

SVE STACK
PCE EMISSION DATA
MOSINEE CLEANERS
MOSINEE, WI

Date	Sample Time	Cumulative Days	PCE Concentration (ug/l)	Air Flow Rate (SCFM)	PCE Emission Rate* (lbs/hr)	PCE Cumulative Pounds Emitted
6/10/2019	12:30	0.00	3.4	127	0.002	0.000
6/11/2019	13:30	1.04	3.4	127	0.002	0.040
6/12/2019	7:30	1.79	3.4	123	0.002	0.069
6/18/2019	13:45	8.05	3.4	123	0.002	0.303
6/25/2019	10:00	14.90	3.4	121	0.002	0.557
7/5/2019	7:30	24.79	3.4	118	0.001	0.917
8/6/2019	12:00	56.98	3.4	118	0.002	2.075
9/27/2019	13:50	109.06	6.5	100	0.002	4.535
10/4/2019	13:00	116.02	6.5	106	0.003	4.953
11/20/2019	12:00	162.98	3.4	106	0.001	7.155
12/19/2019	12:00	191.98	3.4	106	0.001	8.089
1/23/2020	16:30	227.17	3.4	104	0.001	9.216
2/20/2020	12:00	254.98	3.4	106	0.001	10.107
3/24/2020	12:00	287.98	1.1	100	0.000	10.802
4/17/2020	12:00	311.98	1.1	102	0.000	11.041
5/18/2020	16:20	343.16	3.4	102	0.001	11.683
6/24/2020	12:00	379.98	1.0	102	0.000	12.426

X = Not Detected

NA = No Samples Collected

(1) System Shutdown

(2) System Restarted

Cumulative Pounds Emitted is the Average of Sampling Events

ER = (Q x C x 3.7378 e-6)

Where: ER = Emission Rate (lbs/hr)

Q = Pumping Rate (SCFM)

C =Soil Gas Concentration (ug/l)

lbs/hr = Pounds per hour

SCFM = Standard Cubic Feet Per Minute

A.7.b

REMEDIATION SYSTEM OPERATION AND UTILIZATION
MOSINEE CLEANERS
MOSINEE, WI

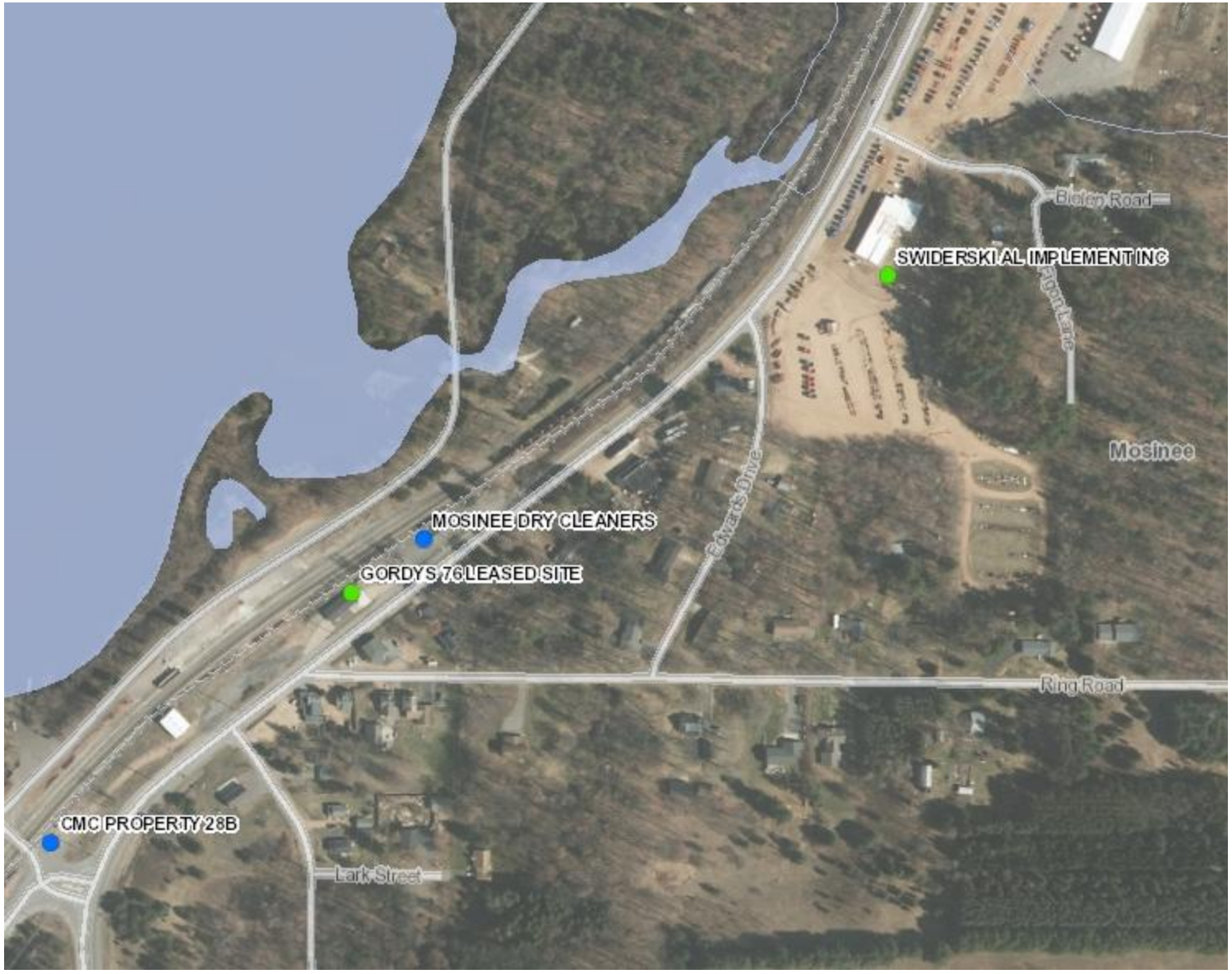
SVE System Startup - 6/10/19
Reporting Period - 6/10/19-7/2/20

Soil Vapor Extraction System	
Number of Days =	388
Number of Days in Operation =	313
System Utilization =	81%
Total Pounds of VOC Emissions =	12.4
Pounds Per Day of VOC's During Operation =	0.04

P:\5800-5899\5890-Mosinee Dry Cleaners\Analytical\[5890vapor.xlsx]SVE Emissions

Table of Contents - Attachment B: Maps and Figures

B.1.c - RR Sites Map



Legend

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

0.1 0 0.06 0.1 Miles

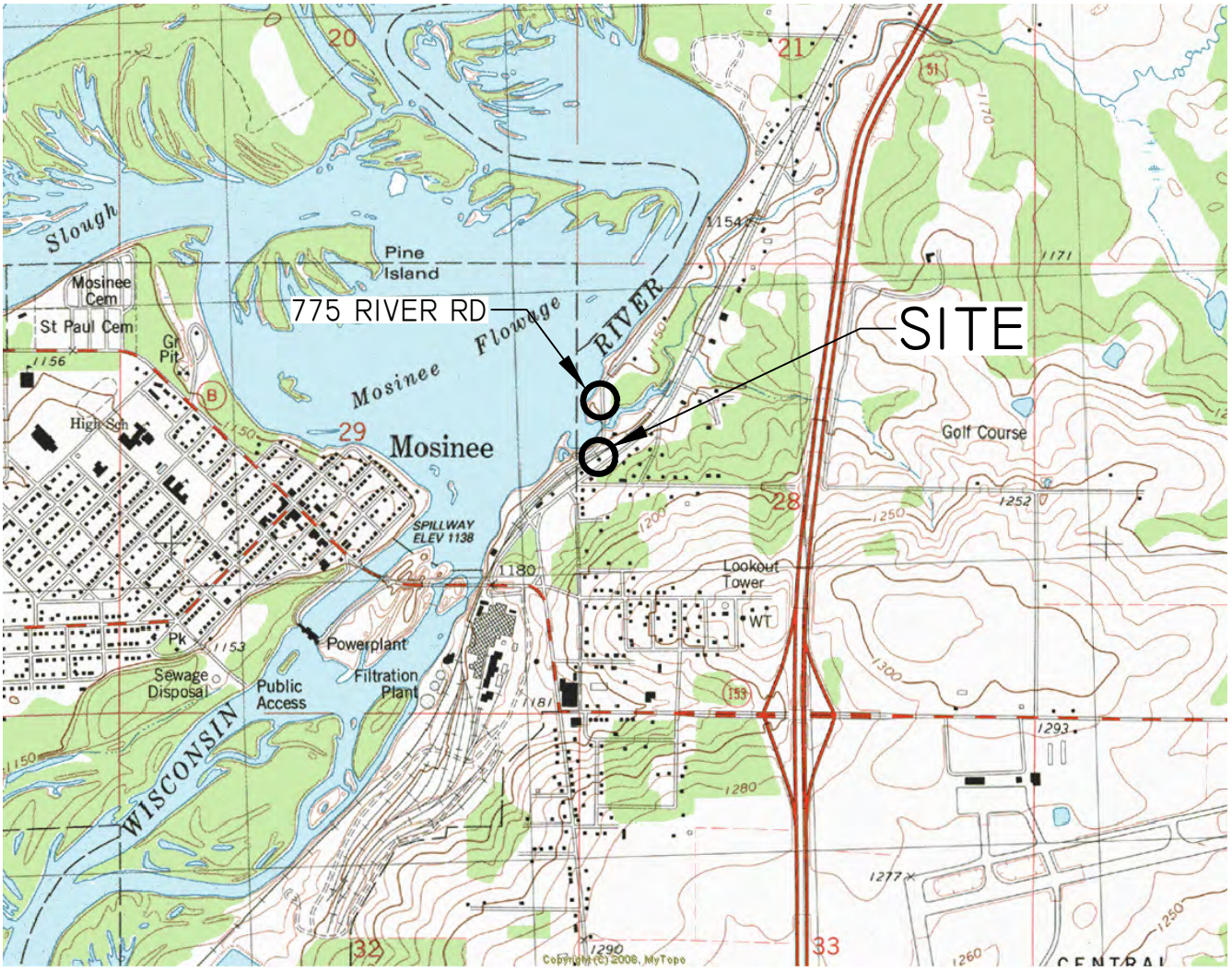
NAD_1983_HARN_Wisconsin_TM

1: 3,960

Note: Not all sites are mapped.

Notes

REI
CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING



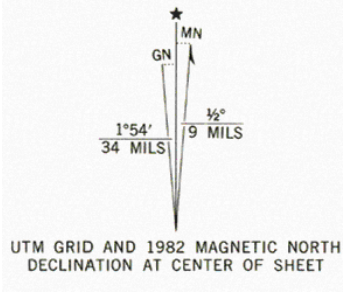
SCALE 1:24 000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
DOTTED LINES REPRESENT 5-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929



UTM GRID AND 1982 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

MOSINEE, WIS.
SW/4 WAUSAU 15' QUADRANGLE
N4445–W8937.5/7.5
1982
DMA 3073 I SW–SERIES V861

QUADRANGLE LOCATION

REI Engineering, INC.

MOSINEE DRY CLEANERS
735 HIGHWAY 51
MOSINEE, WISCONSIN 54455

FIGURE B.1.a: LOCATION MAP

PROJECT NO.	DRAWN BY:	DATE:
5890	NAP	12/15/2020

DRAWING FILE: P:\5800-5899\5890-Mosinee Dry Cleaners\dwg\5890-Vicinity-MDC.dwg LAYOUT: VICINITY PLOTTED: Dec 16, 2020 - 9:35am PLOTTED BY: NATHANP

MOSINEE FLOWAGE

RIVER RD.

MW5

MW4

MW6

RAILROAD TRACKS

APPROXIMATE P/L

APPROXIMATE P/L

OLD HIGHWAY 51

MW3

GP-1

APPROXIMATE PROPOSED
PARCEL SUBDIVISION

SVE WELLS
AND PIPING

SYSTEM
TRAILER

B300

GP-7

VE-2

GP-2

B100

VE-1

SSI/SSI-A

VE-3

VP-1

FORMER DRY
CLEANING
MACHINE

EXISTING
BUILDING

B200

PZ1

MW7

GP-6

B400

GP-3

SVP3

MW1

SVP2

GP-5

SVP1

MW2

GP-4

N

LEGEND

0 30

SCALE: 1" = 30'

- SVE WELLS
- SOIL GAS PROBE LOCATION
- SOIL SAMPLE LOCATION
- PIEZOMETER
- VAPOR PROBE LOCATION
- NORTHERN ENVIRONMENTAL BORINGS
- MONITORING WELL
- GEOPROBE SOIL BORING
- G — UNDERGROUND GAS
- W — UNDERGROUND WATER

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MOSINEE DRY CLEANERS
735 HIGHWAY 51
MOSINEE, WISCONSIN 54455

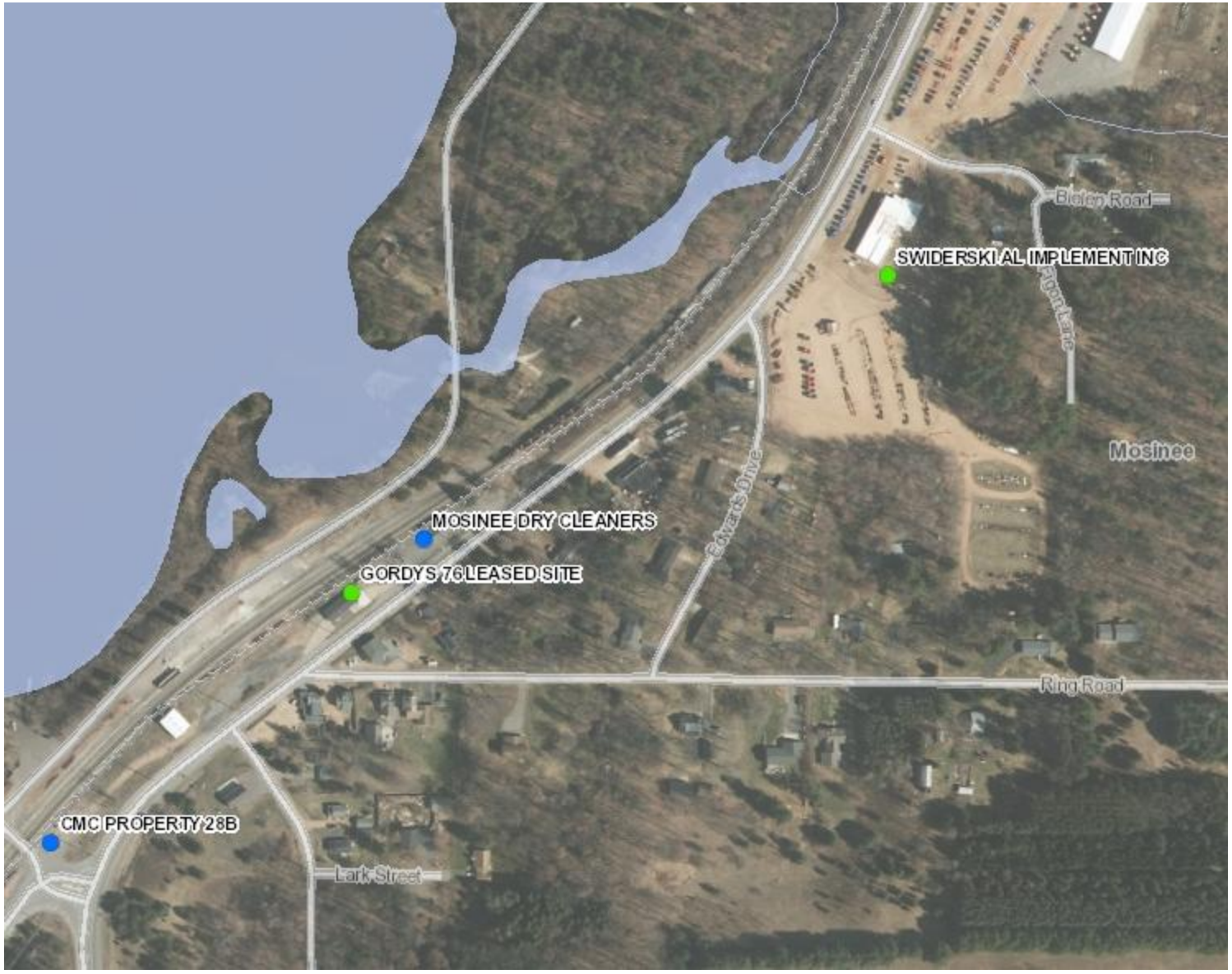
FIGURE B.1.b: DETAILED SITE MAP

PROJECT No.	DRAWN BY:	DATE:
5890	NAP	12/15/2020

REI Engineering, INC.

DRAWING FILE: P:\5800-5899\5890-Mosinee Dry Cleaners\dwg\5890-Site-MDC.dwg LAYOUT: Site PLOTTED: Dec 16, 2020 - 9:34am PLOTTED BY: nathanp

B.1.c - RR Sites Map



Legend

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

0.1 0 0.06 0.1 Miles

NAD_1983_HARN_Wisconsin_TM

1: 3,960

Note: Not all sites are mapped.

Notes

MOSINEE FLOWAGE

RIVER RD.

RAILROAD TRACKS

OLD HIGHWAY 51

MW5
MW4
MW6
MW3
MW7
MW1
MW2

GP-1
GP-2
GP-3
GP-4
GP-5
GP-6
GP-7

SVP1
SVP2
SVP3

PZ1

VP-1

B100
B200
B300
B400

VE-1
VE-2
VE-3

SSI/SSI-A

SVE WELLS AND PIPING

SYSTEM TRAILER

EXISTING BUILDING

FORMER DRY CLEANING MACHINE

APPROXIMATE PROPOSED PARCEL SUBDIVISION

APPROXIMATE P/L

APPROXIMATE P/L

G

W

N

LEGEND

0 30

SCALE: 1" = 30'

- SOIL CONTAMINATION
- SVE WELLS
- SOIL GAS PROBE LOCATION
- SOIL SAMPLE LOCATION
- PIEZOMETER
- VAPOR PROBE LOCATION
- NORTHERN ENVIRONMENTAL BORINGS
- MONITORING WELL
- GEOPROBE SOIL BORING
- G — UNDERGROUND GAS
- W — UNDERGROUND WATER

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MOSINEE DRY CLEANERS
735 HIGHWAY 51
MOSINEE, WISCONSIN 54455

FIGURE B.2.a: SOIL CONTAMINATION

PROJECT No.	DRAWN BY:	DATE:
5890	NAP	12/15/2020

DRAWING FILE: P:\5800-5899\5890-Mosinee Dry Cleaners\dwg\5890-Residual Soil Contam.dwg LAYOUT: Residual Soil Contam PLOTTED: Dec 16, 2020 - 9:34am PLOTTED BY: nathanp

MOSINEE FLOWAGE

RIVER RD.

RAILROAD TRACKS

OLD HIGHWAY 51

MW2 MW3 MW4 MW5 MW6 MW7 MWI

GP-1 GP-2 GP-3 GP-4 GP-5 GP-6 GP-7

SVP1 SVP2 SVP3

PZI

B100 B200 B300 B400

VE-1 VE-2 VE-3

VP-1

SSI/SSI-A

SVE WELLS AND PIPING

SYSTEM TRAILER

EXISTING BUILDING

FORMER DRY CLEANING MACHINE

APPROXIMATE PROPOSED PARCEL SUBDIVISION

APPROXIMATE P/L

G

W

N

LEGEND

0 30

SCALE: 1" = 30'

- RESIDUAL SOIL CONTAMINATION
- SVE WELLS
- SOIL GAS PROBE LOCATION
- SOIL SAMPLE LOCATION
- PIEZOMETER
- VAPOR PROBE LOCATION
- NORTHERN ENVIRONMENTAL BORINGS
- MONITORING WELL
- GEOPROBE SOIL BORING
- G — UNDERGROUND GAS
- W — UNDERGROUND WATER

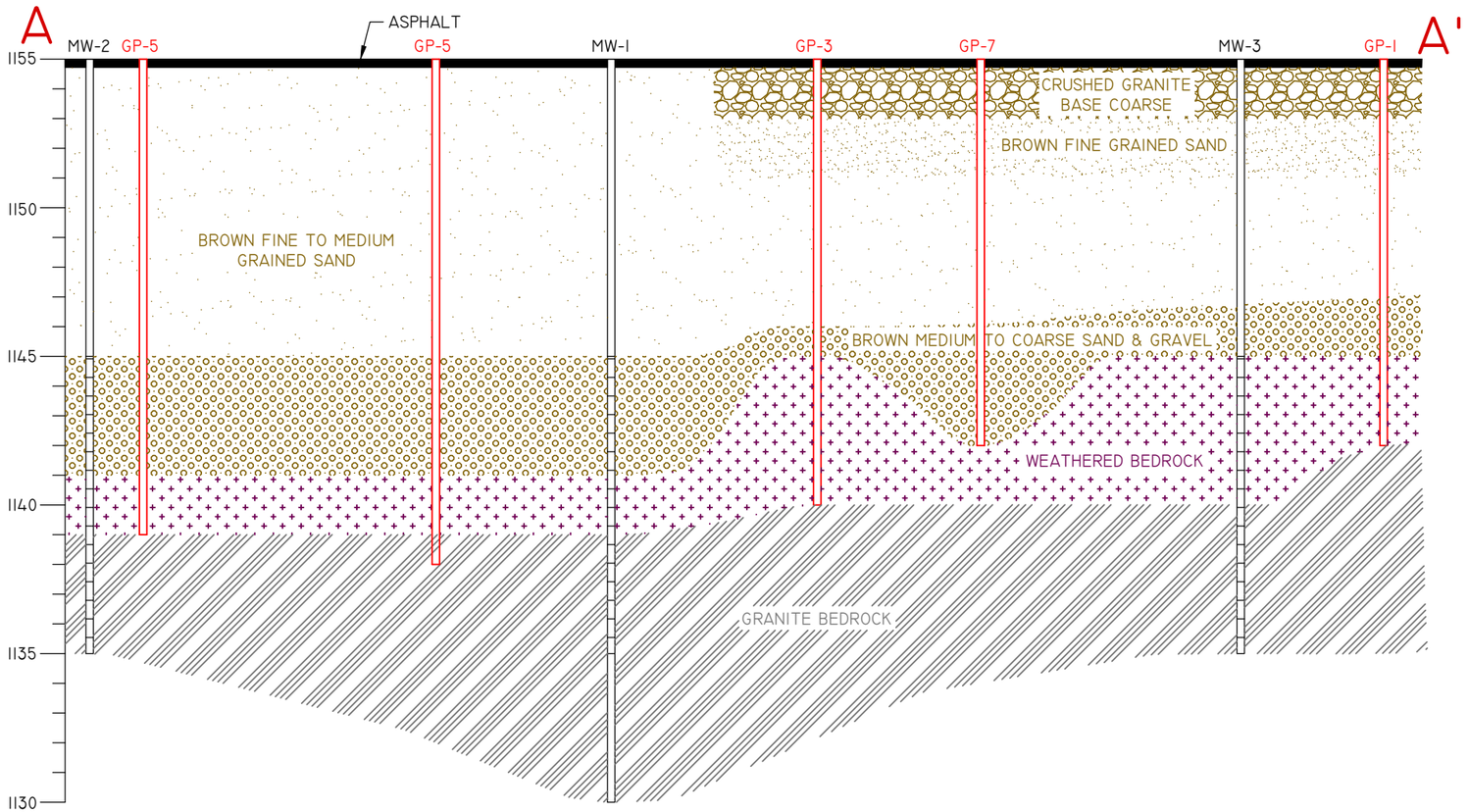
REI CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

MOSINEE DRY CLEANERS
735 HIGHWAY 51
MOSINEE, WISCONSIN 54455

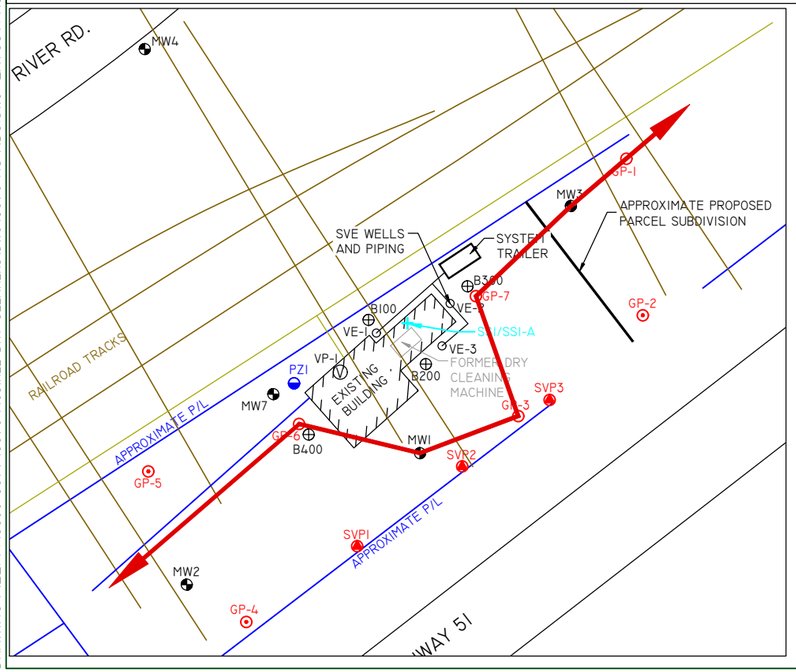
FIGURE B.2.b: RESIDUAL SOIL CONTAMINATION

PROJECT No.	DRAWN BY:	DATE:
5890	NAP	12/15/2020

REI Engineering, INC.



SCALE
1" = 5' (VERTICAL)
1" = 20' (HORIZONTAL)



N

LEGEND

0 40
SCALE: 1" = 40'

- VAPOR PROBE LOCATION
- NORTHERN ENVIRONMENTAL BORINGS
- MONITORING WELL
- GEOPROBE SOIL BORING

REI CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

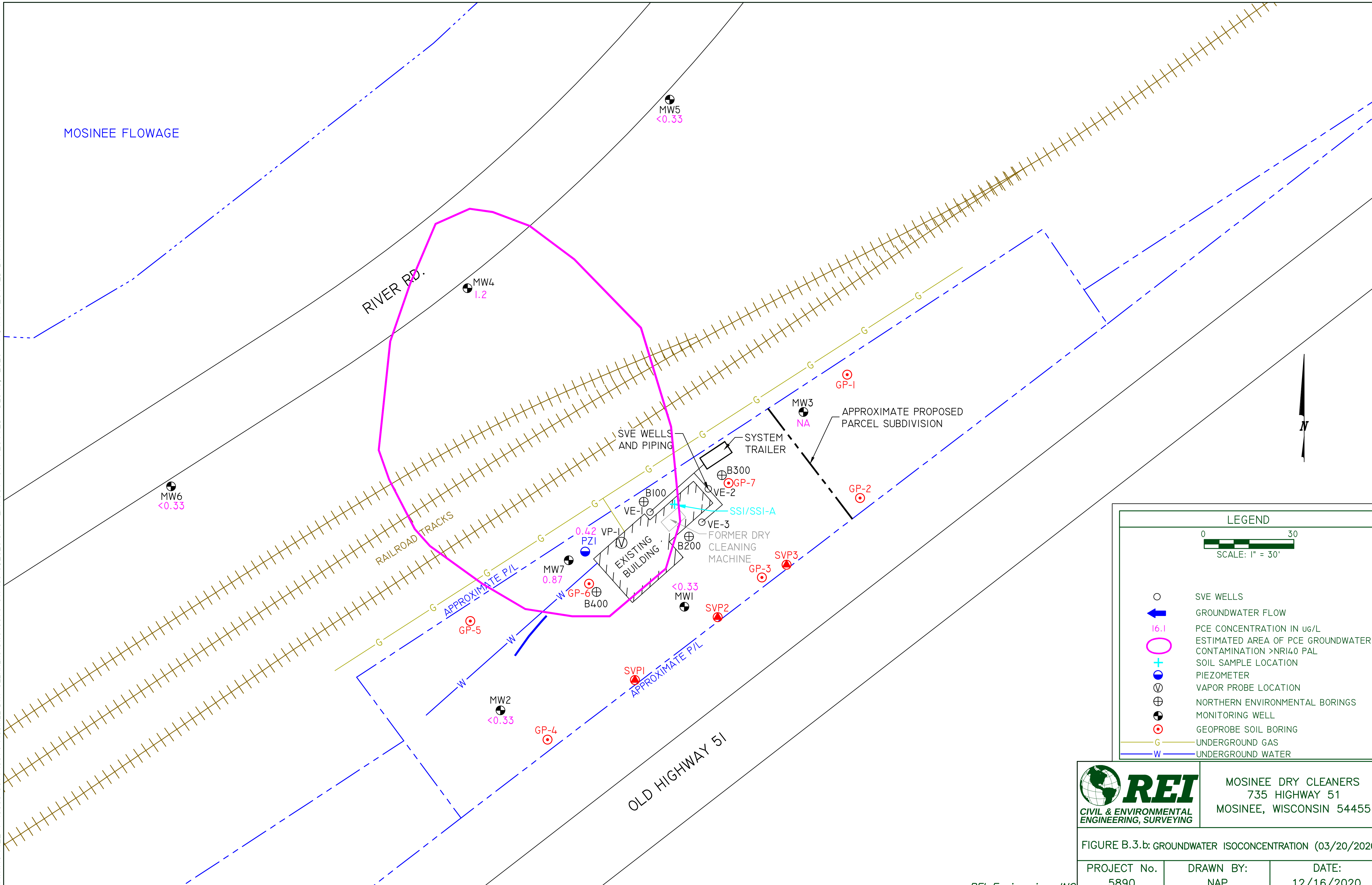
MOSINEE DRY CLEANERS
735 HIGHWAY 51
MOSINEE, WISCONSIN

FIGURE B.3.a: CROSS SECTION A–A'

PROJECT No.	DRAWN BY:	DATE:
5890	NAP	12/15/2020

REI Engineering, INC.

DRAWING FILE: P:\5800-5899\5890-MOSINEE DRY CLEANERS\DWG\5890-XS-MDC.DWG LAYOUT: XS PLOTTED: Dec 16, 2020 - 9:35AM PLOTTED BY: NATHANP



REI
CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

MOSINEE DRY CLEANERS
735 HIGHWAY 51
MOSINEE, WISCONSIN 54455

FIGURE B.3.b: GROUNDWATER ISOCONCENTRATION (03/20/2020)

PROJECT No.	DRAWN BY:	DATE:
5890	NAP	12/16/2020

REI Engineering, INC.

DRAWING FILE: P:\5800-5899\5890-MOSINEE DRY CLEANERS\DWG\5890-GW Iso-032020.DWG LAYOUT: GW PLOTTED: DEC 16, 2020 - 9:34AM PLOTTED BY: NATHANP

MOSINEE FLOWAGE

RIVER RD.

MW5
<0.33
1139.28

MW4
1.2
1139.32

1139.5

MW6
<0.33
1139.28

RAILROAD TRACKS

1140

APPROXIMATE P/L

GP-5

MW7
0.87
1140.3

GP-6

B400

0.42
PZ1

VP-1

EXISTING BUILDING

B100

VE-1

SSI/SSI-A

VE-3

B200

FORMER DRY CLEANING MACHINE

B300

GP-7

VE-2

SVE WELLS AND PIPING

SYSTEM TRAILER

MW3
NA

APPROXIMATE PROPOSED PARCEL SUBDIVISION

GP-2

GP-1

1141

1141.61
<0.33
MW1

SVP2

GP-3

SVP3

1140.5

MW2
<0.33
1140.57

GP-4

SVP1

APPROXIMATE P/L

OLD HIGHWAY 51

N

LEGEND

0 30
SCALE: 1" = 30'

- SVE WELLS
- GROUNDWATER FLOW
- 1140.50 GROUNDWATER CONTOUR LINE (INTERVAL 0.50 FT.)
- SOIL SAMPLE LOCATION
- PIEZOMETER
- VAPOR PROBE LOCATION
- NORTHERN ENVIRONMENTAL BORINGS
- MONITORING WELL
- GEOPROBE SOIL BORING
- G UNDERGROUND GAS
- W UNDERGROUND WATER

REI CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

MOSINEE DRY CLEANERS
735 HIGHWAY 51
MOSINEE, WISCONSIN 54455

FIGURE B.3.c: GROUNDWATER FLOW DIRECTION (03/20/2020)

PROJECT No.	DRAWN BY:	DATE:
5890	NAP	12/16/2020

REI Engineering, INC.

DRAWING FILE: P:\5800-5899\5890-Mosinee Dry Cleaners\dwg\5890-GW Flow-032020.dwg LAYOUT: GW PLOTTED: Dec 16, 2020 - 9:34AM PLOTTED BY: NATHANP

MOSINEE FLOWAGE

RIVER RD.

MW5

MW4

MW6

MW3

APPROXIMATE PROPOSED PARCEL SUBDIVISION

SVE WELLS AND PIPING

SYSTEM TRAILER

VE-2

VE-1

SSI/SSI-A

VE-3

FORMER DRY CLEANING MACHINE

EXISTING BUILDING

PZI

MW7

MW1

RAILROAD TRACKS

APPROXIMATE P/L

APPROXIMATE P/L

MW2

OLD HIGHWAY 51

N

LEGEND

0 30

SCALE: 1" = 30'

- SVE WELLS
- SOIL GAS PROBE LOCATION
- SOIL SAMPLE LOCATION
- PIEZOMETER
- VAPOR PROBE LOCATION
- NORTHERN ENVIRONMENTAL BORINGS
- MONITORING WELL
- GEOPROBE SOIL BORING
- G — UNDERGROUND GAS
- W — UNDERGROUND WATER

REI CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

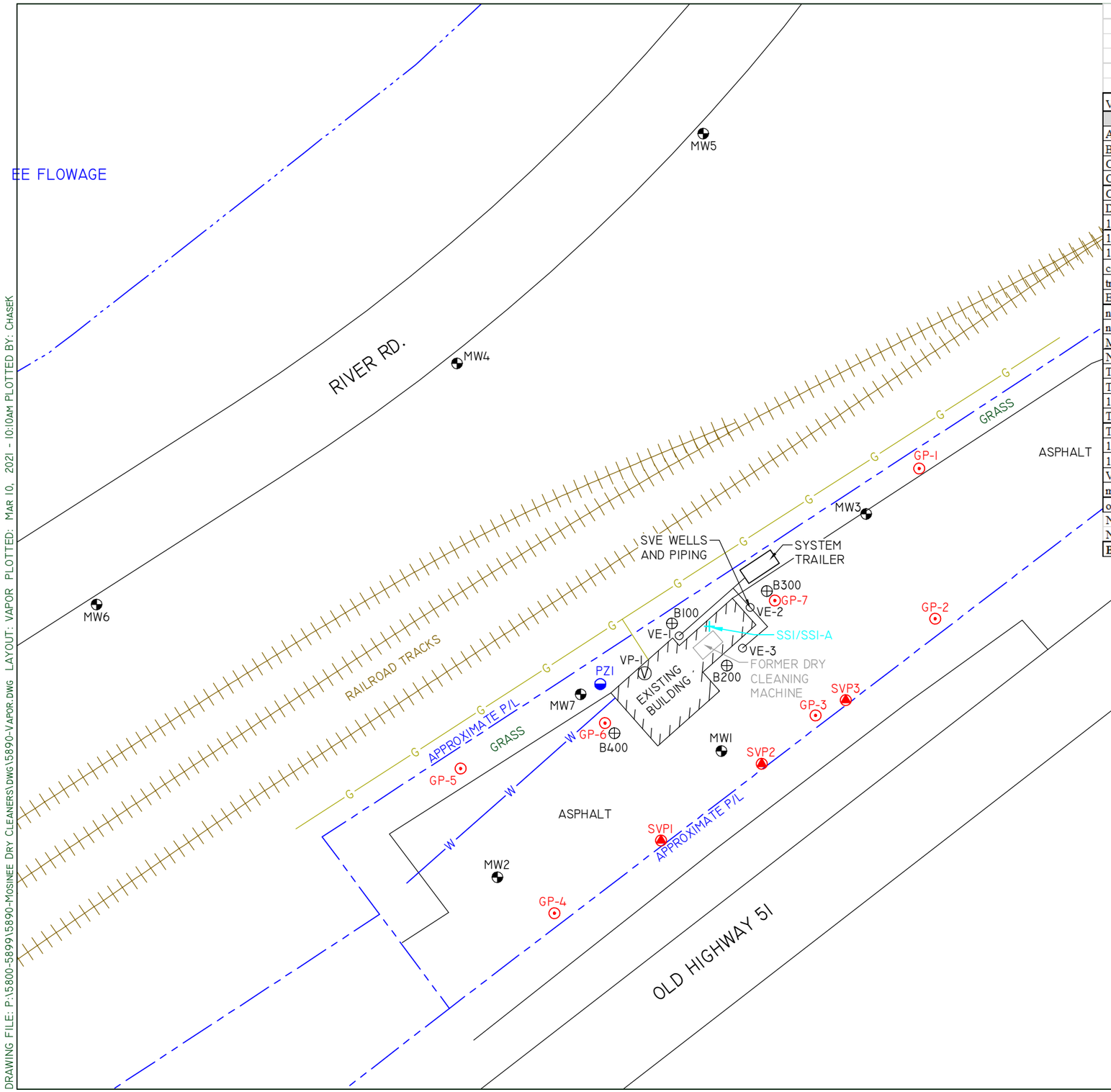
MOSINEE DRY CLEANERS
735 HIGHWAY 51
MOSINEE, WISCONSIN 54455

FIGURE B.3.d: MONITORING WELLS

PROJECT No.	DRAWN BY:	DATE:
5890	NAP	12/15/2020

REI Engineering, INC.

DRAWING FILE: P:\5800-5899\5890-MOSINEE DRY CLEANERS\DWG\5890-MW.DWG LAYOUT: MW PLOTTED: Dec 16, 2020 - 9:34AM PLOTTED BY: NATHANP



A.4
SUB-SLAB & SEWER LINE VAPOR SAMPLING RESULTS
MOSINEE CLEANERS
735 OLD HIGHWAY 51
MOSINEE, WI

VOCs (ug/m^3)	Screening Levels	4/23/12	6/10/19	3/4/20	6/24/20	6/26/20	2/25/21	9/30/20
	Non-Residential	VP-1						Sewer
Acetone	1,400,000	54.6	SVE System Startup	44	SVE System Shutdown	209	23.7	16.2
Benzene	160	<13.1		5.1		7.1	0.51	5.2
Carbon Tetrachloride	200	<25.9		0.57		0.57j	<0.307	9.6
Chloroform	53	<40.0		<0.3		1.12	<0.3	231
Chloromethane	3,900	<17.0		1.26j		5.1	<0.831	7.8
Dichlorodifluoromethane	4,400	<40.8		2.62		9.7	2.47	2.77
1,1-Dichloroethane	770	<33.1		<0.187		<0.187	<0.187	<0.374
1,2-Dichloroethane	47	<16.6		<0.24		0.32	<0.24	<0.48
1,1-Dichloroethelyene	8,800	<32.7		<0.21		<0.21	<0.21	<0.42
cis-1,2 Dichloroethene	NS	<32.7		<0.197		<0.197	<0.197	<0.394
trans-1,2-Dichloroethene	2600	<32.7		<0.231		<0.231	<0.231	<0.462
Ethylbenzene	490	47.8		6.2		35	0.78	8.9
n-Heptane	NS	50.0		4.5		13.2	0.86	7.8
n-Hexane	31,000	<29.1		3.3		24.5	5.0	10.4
Methylene Chloride	2,600	<28.7		<15		<15	<15	<30
Naphthalene	36	NA		2.25		11.8	1.47j	5.8
Tetrachloroethene	1,800	**2,270**		12.6		108	410	18.5
Toluene	220,000	124		42		170	6.7	38
1,1,1-Trichloroethane	220,000	<44.8		<0.249		<0.249	<0.249	<0.498
Trichloroethene	88	25.1		<0.237		<0.237	<0.237	4.1
Trichlorofluoromethane	31,000	<46.1		2.25		13	2.36	2.7
1,2,4-Trimethylbenzene	310	85.1		12		80	4.5	26.5
1,3,5-Trimethylbenzene	NS	<40.4		3.3		19.9	1.13	6
Vinyl Chloride	280	<10.5		<0.148		<0.148	<0.148	<0.296
m&p-Xylene	4,400	92.0		22.1		119	2.12	32
o-Xylene	4,400	<35.6		9.9		54	1.0	14.1

NS - No Standard
NA - Not Analyzed
Bold Exceeds Residential Screening Level

Table of Contents - Attachment C: Documentation of Remedial Action

Synergy Environmental Lab, INC

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

ANDY DELFORGE
REI
4080 N. 20TH AVENUE
WAUSAU. WI 54401

Report Date *10-Mar-21*

Project Name
Project # 5890

Invoice # E39117

Lab Code 5039117A
Sample ID VPI
Sample Matrix Air
Sample Date 2/25/2021

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
Air Samples										
Acetone	23.7	ug/m3	0.299	0.95	1	TO-15		3/3/2021	CJR	1
Acrolein	0.46	ug/m3	0.094	0.299	1	TO-15		3/3/2021	CJR	1
Benzene	0.51	ug/m3	0.136	0.433	1	TO-15		3/3/2021	CJR	1
Benzyl Chloride	< 0.209	ug/m3	0.209	0.665	1	TO-15		3/3/2021	CJR	1
Bromodichloromethane	< 0.374	ug/m3	0.374	1.19	1	TO-15		3/3/2021	CJR	1
Bromoform	< 0.414	ug/m3	0.414	1.32	1	TO-15		3/3/2021	CJR	1
Bromomethane	< 0.2	ug/m3	0.2	0.637	1	TO-15		3/3/2021	CJR	1
1,3-Butadiene	< 0.143	ug/m3	0.143	0.454	1	TO-15		3/3/2021	CJR	1
Carbon Disulfide	< 0.138	ug/m3	0.138	0.44	1	TO-15		3/3/2021	CJR	1
Carbon Tetrachloride	< 0.307	ug/m3	0.307	0.978	1	TO-15		3/3/2021	CJR	1
Chlorobenzene	< 0.251	ug/m3	0.251	0.798	1	TO-15		3/3/2021	CJR	1
Chloroethane	0.66	ug/m3	0.159	0.507	1	TO-15		3/3/2021	CJR	1
Chloroform	< 0.3	ug/m3	0.3	0.953	1	TO-15		3/3/2021	CJR	1
Chloromethane	< 0.831	ug/m3	0.831	2.64	1	TO-15		3/3/2021	CJR	1
Cyclohexane	0.41 "J"	ug/m3	0.212	0.674	1	TO-15		3/3/2021	CJR	1
Dibromochloromethane	< 0.376	ug/m3	0.376	1.2	1	TO-15		3/3/2021	CJR	1
1,4-Dichlorobenzene	< 0.302	ug/m3	0.302	0.96	1	TO-15		3/3/2021	CJR	1
1,3-Dichlorobenzene	< 0.302	ug/m3	0.302	0.96	1	TO-15		3/3/2021	CJR	1
1,2-Dichlorobenzene	2.06	ug/m3	0.235	0.749	1	TO-15		3/3/2021	CJR	1
Dichlorodifluoromethane	2.47	ug/m3	0.263	0.836	1	TO-15		3/3/2021	CJR	1
1,2-Dichloroethane	< 0.24	ug/m3	0.24	0.763	1	TO-15		3/3/2021	CJR	1
1,1-Dichloroethane	< 0.187	ug/m3	0.187	0.596	1	TO-15		3/3/2021	CJR	1
1,1-Dichloroethene	< 0.21	ug/m3	0.21	0.668	1	TO-15		3/3/2021	CJR	1
cis-1,2-Dichloroethene	< 0.197	ug/m3	0.197	0.626	1	TO-15		3/3/2021	CJR	1
trans-1,2-Dichloroethene	< 0.231	ug/m3	0.231	0.734	1	TO-15		3/3/2021	CJR	1

Project Name **Invoice #** E39117
Project # 5890

Lab Code 5039117A
Sample ID VPI
Sample Matrix Air
Sample Date 2/25/2021

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2-Dichloropropane	< 0.28	ug/m3	0.28	0.89	1	TO-15		3/3/2021	CJR	1
trans-1,3-Dichloropropene	< 0.198	ug/m3	0.198	0.63	1	TO-15		3/3/2021	CJR	1
cis-1,3-Dichloropropene	< 0.234	ug/m3	0.234	0.745	1	TO-15		3/3/2021	CJR	1
1,2-Dichlorotetrafluoroethane	< 0.446	ug/m3	0.446	1.42	1	TO-15		3/3/2021	CJR	1
1,4-Dioxane	< 0.157	ug/m3	0.157	0.5	1	TO-15		3/3/2021	CJR	1
EDB (1,2-Dibromoethane)	< 0.342	ug/m3	0.342	1.09	1	TO-15		3/3/2021	CJR	1
Ethanol	76	ug/m3	1.52	4.82	10	TO-15		3/4/2021	CJR	1
Ethyl Acetate	5.2	ug/m3	0.176	0.559	1	TO-15		3/3/2021	CJR	1
Ethylbenzene	0.78	ug/m3	0.203	0.645	1	TO-15		3/3/2021	CJR	1
4-Ethyltoluene	0.78	ug/m3	0.214	0.681	1	TO-15		3/3/2021	CJR	1
Heptane	0.86	ug/m3	0.265	0.845	1	TO-15		3/3/2021	CJR	1
Hexachlorobutadiene	< 0.489	ug/m3	0.489	1.56	1	TO-15		3/3/2021	CJR	1
Hexane	5.0	ug/m3	0.235	0.748	1	TO-15		3/3/2021	CJR	1
2-Hexanone	0.7 "J"	ug/m3	0.222	0.707	1	TO-15		3/3/2021	CJR	1
Isopropyl Alcohol	18.5	ug/m3	0.109	0.347	1	TO-15		3/3/2021	CJR	1
Methyl ethyl ketone (MEK)	9.8	ug/m3	0.178	0.567	1	TO-15		3/3/2021	CJR	1
Methyl isobutyl ketone (MIBK)	3.4	ug/m3	0.168	0.536	1	TO-15		3/3/2021	CJR	1
Methyl Methacrylate	< 0.217	ug/m3	0.217	0.69	1	TO-15		3/3/2021	CJR	1
Methylene chloride	< 15	ug/m3	0.159	0.506	1	TO-15		3/3/2021	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.16	ug/m3	0.16	0.509	1	TO-15		3/3/2021	CJR	1
Naphthalene	1.47 "J"	ug/m3	0.675	2.15	1	TO-15		3/3/2021	CJR	1
Propene	5.7	ug/m3	0.079	0.251	1	TO-15		3/3/2021	CJR	1
Styrene	0.64	ug/m3	0.181	0.577	1	TO-15		3/3/2021	CJR	1
1,1,2,2-Tetrachloroethane	< 0.325	ug/m3	0.325	1.03	1	TO-15		3/3/2021	CJR	1
Tetrachloroethene	410	ug/m3	2.78	8.84	10	TO-15		3/4/2021	CJR	1
Tetrahydrofuran	8.3	ug/m3	0.131	0.417	1	TO-15		3/3/2021	CJR	1
Toluene	6.7	ug/m3	0.184	0.585	1	TO-15		3/3/2021	CJR	1
1,2,4-Trichlorobenzene	< 0.657	ug/m3	0.657	2.09	1	TO-15		3/3/2021	CJR	1
1,1,1-Trichloroethane	< 0.249	ug/m3	0.249	0.793	1	TO-15		3/3/2021	CJR	1
1,1,2-Trichloroethane	< 0.258	ug/m3	0.258	0.822	1	TO-15		3/3/2021	CJR	1
Trichloroethene (TCE)	< 0.237	ug/m3	0.237	0.754	1	TO-15		3/3/2021	CJR	1
Trichlorofluoromethane	2.36	ug/m3	0.337	1.07	1	TO-15		3/3/2021	CJR	1
Trichlorotrifluoroethane	0.61 "J"	ug/m3	0.402	1.28	1	TO-15		3/3/2021	CJR	1
1,2,4-Trimethylbenzene	4.5	ug/m3	0.283	0.899	1	TO-15		3/3/2021	CJR	1
1,3,5-Trimethylbenzene	1.13	ug/m3	0.232	0.739	1	TO-15		3/3/2021	CJR	1
Vinyl acetate	< 0.203	ug/m3	0.203	0.645	1	TO-15		3/3/2021	CJR	1
Vinyl Chloride	< 0.148	ug/m3	0.148	0.472	1	TO-15		3/3/2021	CJR	1
m&p-Xylene	2.12	ug/m3	0.377	1.2	1	TO-15		3/3/2021	CJR	1
o-Xylene	1.0	ug/m3	0.218	0.695	1	TO-15		3/3/2021	CJR	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

www.synergy-lab.net
1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • mrsynergy@wi.twcbc.com

Chain # No 37614

Page 1 of 1

Sample Handling Request

Rush Analysis Date Required:
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #	
QUOTE # :	
Project #:	5890
Sampler: (signature)	
Project (Name / Location):	Andy Delforge
Reports To:	
Company	REI
Address	
City State Zip	
Phone	
Email	ADelforge@REIengineering.com
Invoice To:	
Company	REI
Address	
City State Zip	
Phone	
Email	

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
503911771	V1	2/25/21	10:20	N	1	A	

Analysis Requested / **Other Analysis**

DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	VOC AIR (TO - 15)	8-RCRA METALS							PID/ FID
													X								

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge, etc.)

Sample Integrity - To be completed by receiving lab.

Method of Shipment: Courier

Temp. of Temp. Blank: X °C On Ice:

Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	2/25/21	2:00			

Received in Laboratory By: Time: 10:00 Date: 3/2/21

Table of Contents - Attachment D: Maintenance Plan(s) and Photographs

D.1
COVER MAINTENANCE PLAN

12/17/20
Property Located at:
735 Old Highway 51
Mosinee, WI 54455
FID#737046090, BRRTS #02-37-552230
Certified Survey Map #14756, City of Mosinee, Marathon County, WI
Parcel #251.4.2707.285.9996

Introduction

This document is the Maintenance Plan for a cover 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 building 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 West Central regional office
- BRRTS on the Web (DNR's internet based data base of contaminated sites): dnr.wi.gov/botw/SetUpBasicSearchForm.do
- GIS Registry PDF file for further information on the nature and extent of contamination: dnrmaps.wisconsin.gov/imf/imf.jsp?site=brrts2; and
- The DNR project manager for Marathon County.

Description of Contamination

Soil contaminated by tetrachloroethylene is located at a depth of 1 foot beneath the building. The extent of the soil contamination is shown on the attached D.2

Description of the Cover to be maintained

The Cover consists of the existing Mosinee Cleaners building. It is located in the north center of the property as shown on the **D.2**

Cover Barrier Purpose

The existing building over the contaminated soil will act as a partial infiltration barrier to minimize future soil-to-groundwater contamination migration that would violate the groundwater standards in ch. NR 140, Wisconsin Administrative Code. Based on the current and future use of the property, the barrier should function as intended unless disturbed.

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 cover 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

December 2020

Site Owner and Operator: Annie Maas
735 Old Highway 51
Mosinee, WI 54455
Signature: _____

Consultant: Andrew Delforge
4080 North 20th Avenue
Wausau, WI 54401
(715) 675-9784

WDNR: Matthew Thompson
1300 West Clairemont Avenue
Eau Claire, WI 54701
(715) 492-2304

MOSINEE FLOWAGE

RIVER RD.

RAILROAD TRACKS

MW5

MW4

MW6

MW3

MW7

MW1

MW2

GP-1

GP-2

GP-3

GP-4

GP-5

GP-6

GP-7

SVP1

SVP2

SVP3

B100

B200

B300

B400

VE-1

VE-2

VE-3

PZI

SSI/SSI-A

SVE WELLS AND PIPING

SYSTEM TRAILER

EXISTING BUILDING

FORMER DRY CLEANING MACHINE

GRASS

ASPHALT

APPROXIMATE P/L

TO BE MAINTAINED

OLD HIGHWAY 51

N

LEGEND

0 30

SCALE: 1" = 30'

RESIDUAL SOIL CONTAMINATION

SVE WELLS

SOIL GAS PROBE LOCATION

SOIL SAMPLE LOCATION

PIEZOMETER

VAPOR PROBE LOCATION

NORTHERN ENVIRONMENTAL BORINGS

MONITORING WELL

GEOPROBE SOIL BORING

G UNDERGROUND GAS

W UNDERGROUND WATER

REI CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

MOSINEE DRY CLEANERS
735 HIGHWAY 51
MOSINEE, WISCONSIN 54455

FIGURE D.2 : LOCATION MAP

PROJECT No.	DRAWN BY:	DATE:
5890	NAP	12/15/2020

REI Engineering, INC.

DRAWING FILE: P:\5800-5899\5890-Mosinee Dry Cleaners\dwg\5890-Location Map.dwg LAYOUT: LOCATION MAP PLOTTED: Dec 18, 2020 - 11:53AM PLOTTED BY: NATHANP

REI
CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING

Building, view from Old Highway 51

East side of building, view to west

Rear of building and property line adjoining railroad right of way

View to west side of building from Old Highway 51

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Continuing Obligations Inspection and Maintenance Log

Form 4400-305 (R 7/20)

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 Public 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	BRRTS No.

Inspections are required to be conducted (see closure approval letter):	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):
◯ annually ◯ semi-annually ◯ other – specify ______	

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?
		☐ monitoring well ☐ cover/barrier for soil ☐ sediment cap ☐ other:			◯ Y ◯ N	◯ Y ◯ N
		☐ monitoring well ☐ cover/barrier for soil ☐ sediment cap ☐ other:			◯ Y ◯ N	◯ Y ◯ N
		☐ monitoring well ☐ cover/barrier for soil ☐ sediment cap ☐ other:			◯ Y ◯ N	◯ Y ◯ N
		☐ monitoring well ☐ cover/barrier for soil ☐ sediment cap ☐ other:			◯ Y ◯ N	◯ Y ◯ N
		☐ monitoring well ☐ cover/barrier for soil ☐ sediment cap ☐ other:			◯ Y ◯ N	◯ Y ◯ N
		☐ monitoring well ☐ cover/barrier for soil ☐ sediment cap ☐ other:			◯ Y ◯ N	◯ Y ◯ N

{Click to Add/Edit Image} Date added:

Title:

{Click to Add/Edit Image} Date added:

Title:

Table of Contents - Attachment E: Monitoring Well Information

Not applicable - All monitoring wells have been located and will be abandoned upon conditional closure.

Table of Contents - Attachment F: Source Legal Documents

F.1

VOL 712 PAGE 1065

1054274
VI CENTRAL/MAAS

QUITCLAIM DEED

12.60 ... 14.00 ... Legal Law Office ... Mosinee WI

THIS INDENTURE, Witnesseth that the Grantor, **WISCONSIN CENTRAL LTD.**, a Corporation duly organized and existing under and by virtue of the laws of the State of Illinois, located at 6250 North River Road, Rosemont, Illinois 60018, for and in the consideration of TEN AND NO/100 ($10.00) DOLLARS and other good and valuable consideration in hand paid, does hereby **GRANT, CONVEY** and **QUIT CLAIM** to the Grantees, **MIKE MAAS AND ANNIE MAAS, HUSBAND AND WIFE, AS JOINT TENANTS WITH THE RIGHT OF SURVIVORSHIP**, of P. O. Box 11, Mosinee, Wisconsin, 54455, all right, title, and interest in and to the following described lands and property situated in the County of Marathon and State of Wisconsin to wit:

> A parcel of land located in the Southwest Quarter of the Northwest Quarter of Section 28, Township 27 North, Range 7 East, of the 4th Principal Meridian, Marathon County, Wisconsin, described as follows: Commencing at the West quarter corner of said Section 28; thence North 43 degrees 45 minutes East a distance of 298.73 feet to a point on the Westerly edge of the right of way of Old U.S.H. 51; thence North 39 degrees 40 minutes West a distance of 32.72 feet to the Southeasterly right of way and property line of Wisconsin Central Ltd., said Southeasterly right of way and property line also being along a line parallel with and 50 feet normally distant Southeasterly from the centerline of Wisconsin Central Ltd.'s existing main track, and the TRUE POINT OF BEGINNING; thence continuing Northeasterly along last said parallel line a distance of 276 feet; thence Northwesterly at right angles to said main track centerline a distance of 25 feet, more or less, to a point on a line parallel with and 25 feet normally distant Southeasterly from said main track centerline; thence Southwesterly along last said parallel line a distance of 276 feet; thence Southeasterly a distance of 25 feet, more or less, to the point of beginning.

.251.2707.2859996

Grantees covenant and agree for themselves, their successors, assigns, grantees, heirs and legal representatives, not to do or cause to be done any act that will unreasonably impede the flow of drainage water over the property conveyed herein which would adversely affect continuing rail operations. This covenant shall not be construed to prohibit the Grantees from erecting buildings or other improvements on the said property, provided that drainage equivalent to that which exists as of the date of this deed shall be maintained, whether naturally or by other means. This covenant shall run with the land.

TRANSFER

$ 12.60

FEE

IN WITNESS WHEREOF, WISCONSIN CENTRAL LTD., the Grantor, has caused these presents to be signed by Thomas F. Power, Jr., its Executive Vice President and Chief Financial Officer, duly attested by Catherine D. Aldana, its Assistant Secretary and its Corporate Seal to be hereunto affixed, they being thereunto duly authorized as of this 11th day of July, 1995.

WISCONSIN CENTRAL LTD.

By: _____
Thomas F. Power, Jr., Jr.
Executive Vice President
and Chief Financial Officer

Attest:

By: _____
Catherine D. Aldana
Assistant Secretary

STATE OF ILLINOIS)
) SS
COUNTY OF COOK)

I, Genise Martinez, a Notary Public, in and for the County of Cook, State of Illinois, do hereby certify that Thomas F. Power, Jr., personally known to me to be the Executive Vice President and Chief Financial Officer of WISCONSIN CENTRAL LTD., an Illinois Corporation and Catherine D. Aldana, personally known to me to be the Assistant Secretary of said corporation and personally known to me to be the same persons whose names are subscribed to the foregoing instrument, appeared before me this day in person and severally acknowledged under oath that as such Executive Vice President and Chief Financial Officer and Assistant Secretary, they signed and delivered the said instrument as Executive Vice President and Chief Financial Officer and Assistant Secretary of said corporation, and caused the corporate seal of said corporation to be affixed thereto, pursuant to authority given by the Board of Directors of said corporation as their free and voluntary act and as the free and voluntary act and deed of said corporation, for the uses and purposes therein set forth.

Given under my hand and seal this 24th day of July, 1995.

"OFFICIAL SEAL"
GENISE MARTINEZ
Notary Public, State of Illinois
My Commission Expires July 21, 1997

By: _____
Notary Public

RES29/RE (Revised 11/16/93)

VOL 712 PAGE 1067

This instrument prepared by:
Real Estate Department
Wisconsin Central Ltd.
P. O. Box 5062
Rosemont, IL 60017-5062

After recording, please return this document to:

Name: Mike & Annie Maas

Firm: Mosinee Cleaners

Address: P. O. Box 11

City: Mosinee

State: WI Zip Code: 54455

1054274
WI CENTRAL/MAAS
REGISTER'S OFFICE
MARATHON COUNTY,WI 07-28-1995 01:18 PM

VOLUME 712 OF MICRO
RECORDS OF PAGE 1065-1067

Michael J. Sydow
REGISTER

RES29/RE (Revised 11/16/93)

Rec'd 14.00

STATE OF WISCONSIN - MARATHON COUNTY
CSM FILED VOL 64 PAGE 28
04/16/2007 2:32:43 PM
MICHAEL J. SYDOW, REGISTER OF DEEDS

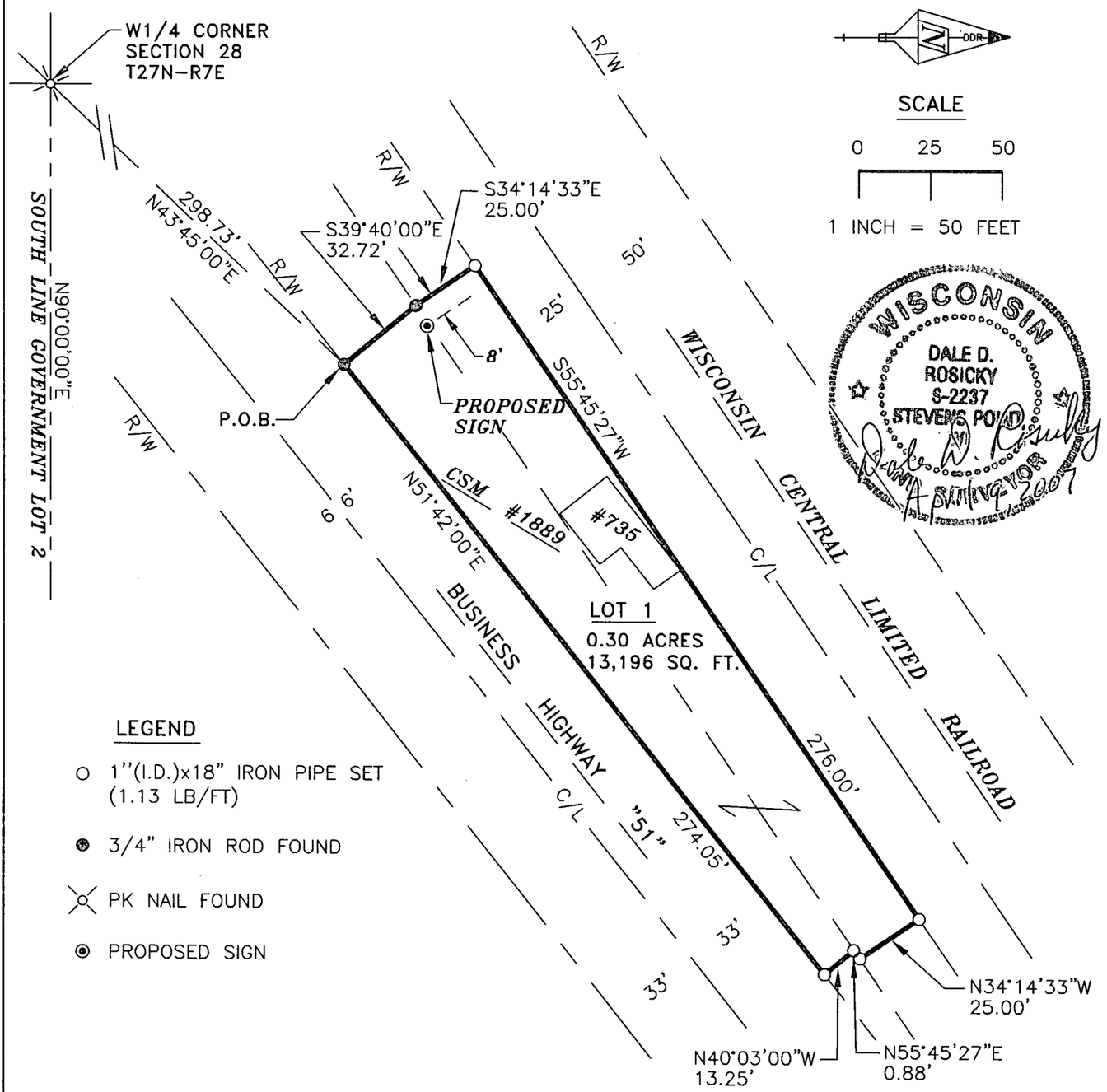
14756

DOC# 1474625

CERTIFIED SURVEY MAP NO. 14756

BEING ALL OF CSM #1889 AND PART OF GOVERNMENT LOT 2, ALL IN SECTION 28, TOWN 27 NORTH, RANGE 7 EAST, CITY OF MOSINEE, MARATHON COUNTY, WISCONSIN

Michael J. Sydow
251.4.2707.285.9996



LEGEND

- ○ 1"(I.D.)x18" IRON PIPE SET (1.13 LB/FT)
- ● 3/4" IRON ROD FOUND
- PK NAIL FOUND
- ◉ PROPOSED SIGN

BASE FOR BEARINGS

BEARINGS REFERENCED TO CERTIFIED SURVEY MAP #1889, VOLUME 7, PAGE 275, THE SOUTH LINE OF GOVERNMENT LOT 2, SECTION 28, T27N–R7E, ASSUMED TO BEAR EAST.

THIS INSTRUMENT DRAFTED BY: DALE D. ROSICKY
GLODOWSKI ROSICKY LAND SURVEYING, INC.
2925 POST ROAD
STEVENS POINT, WI 54481
715–342–9649

VOL. 64
PAGE 28

PLOT DATE: 04–09–07 FILE NAME: 27072801.DWG

MARATHON COUNTY CERTIFIED SURVEY MAP NO. VOL. PAGE

SURVEYOR'S CERTIFICATE

I, DALE D. ROSICKY, REGISTERED LAND SURVEYOR, DO HEREBY CERTIFY:

THAT I HAVE SURVEYED, DIVIDED, AND MAPPED THIS CERTIFIED SURVEY BEING ALL OF CERTIFIED SURVEY MAP #1889, VOLUME 7, PAGE 275, AND PART OF GOVERNMENT LOT 2, ALL IN SECTION 28, TOWN 27 NORTH, RANGE 7 EAST, CITY OF MOSINEE, MARATHON COUNTY, WISCONSIN, BOUNDED AND DESCRIBED AS FOLLOWS:

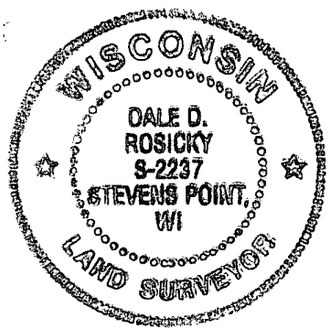
COMMENCING AT THE WEST 1/4 CORNER OF SAID SECTION 28, THENCE N43°45'00"E, 298.73 FEET TO THE POINT OF BEGINNING OF THIS DESCRIPTION;
THENCE N51°42'00"E, 274.05 FEET;
THENCE N40°03'00"W, 13.25 FEET;
THENCE N55°45'27"E, 0.88 FEET;
THENCE N34°14'33"W, 25.00 FEET;
THENCE S55°45'27"W, 276.00 FEET;
THENCE S34°14'33"E, 25.00 FEET;
THENCE S39°40'00"E, 32.72 FEET TO THE POINT OF BEGINNING OF THIS DESCRIPTION CONTAINING 0.30 ACRES, [13,196 SQUARE FEET], AND SUBJECT TO RESTRICTIONS, RESERVATIONS, RIGHTS-OF-WAY AND EASEMENTS OF RECORD. TOGETHER WITH AN ADVERTISING EASEMENT DESCRIBED AS FOLLOWS:

ADVERTISING EASEMENT

EASEMENT SHALL CONSIST OF A PERPETUAL SERVITUDE OF USE THAT RUNS WITH THE LAND AND SHALL INCLUDE THE RIGHT TO SERVICE, MAINTAIN, IMPROVE OR REPLACE ANY OUTDOOR ADVERTISING STRUCTURE ON THE PROPERTY DESCRIBED. THIS RIGHT SHALL INCLUDE BUT NOT BE LIMITED TO A RIGHT OF INGRESS AND EGRESS, A RIGHT OF OVERHANG FOR ELECTRICAL SERVICE, A RIGHT TO MAINTAIN TELECOMMUNICATION DEVICES AS RELATED TO THE STRUCTURE AND A RIGHT OF VIEW, PROHIBITING VEGETATION OR IMPROVEMENTS ON THE PROPERTY DESCRIBED HEREIN THAT WOULD OBSTRUCT THE VIEW OF ADVERTISING STRUCTURE FROM THE ADJOINING HIGHWAY. GRANTOR AGREES THAT GRANTEE MAY TRIM ANY OR ALL TREES AND VEGETATION IN, ON OR ABOUT THE EASEMENT AS OFTEN AS GRANTEE DEEMS NECESSARY TO PREVENT OBSTRUCTION OR TO IMPROVE THE APPEARANCE OF THE STRUCTURE. GRANTEE, ITS SUCCESSORS AND ASSIGNS SPECIFICALLY HOLD GRANTOR, ITS SUCCESSORS AND ASSIGNS, FREE AND HARMLESS FROM ANY DAMAGES OR INJURIES TO ANY PERSON OR PROPERTY CAUSED BY GRANTEE'S CONSTRUCTION OR MAINTENANCE ACTIVITIES ON THE PROPERTY DESCRIBED.

THAT I HAVE MADE SUCH SURVEY AND MAP AT THE DIRECTION OF RICH REINART, AGENT. THAT SAID MAP IS A TRUE AND CORRECT REPRESENTATION OF ALL THE EXTERIOR BOUNDARIES OF THE LAND SURVEYED, AND THAT I HAVE COMPLIED WITH ALL PROVISIONS OF CHAPTER 236.34 OF THE WISCONSIN STATUTES IN SURVEYING AND MAPPING THE SAME.

APRIL 9, 2007



Dale D. Rosicky

DALE D. ROSICKY
REGISTERED LAND SURVEYOR#2237

27072801.DES

DOC # 1474625

F.3

Property Record Card

Parcel Number: 2707-285-9996

Property Address: 735 OLD HWY 51

Municipality: Mosinee City of

Owner Name:
ANNIE MAAS
735 OLD HIGHWAY 51
MOSINEE WI 54455

Zoning: 2-Commercial

Land Use: Commercial

Date of Inspection:

Property Photograph:

Legal Description:
JOS DESSERT LBR CO 2ND ADD NWLY 1/2 OF LOT 14 BLK 1, parcel # 53 000130 001 014 00 00

Building Description

Year Built:	**Exterior Wall:**
	Bedrooms:
Building Type/Style:	**Full Baths:**
Story:	**Half Baths:**
Grade:	**Room Count:**
CDU/Overall Condition:	**Basement Description:**
Interior Condition:	**Heating:**
Kitchen Condition:	**Type of Fuel:**
Bath Condition:	**Type of System:**

Commercial Information

Business Name:	Occupancy:	Year Built:
DRY CLEANERS-LAUNDRY	499-Dry Cleaners/Laundry	1950

Square Footage:
726

Square Footage / Attachments

	Total Square Footage: 0

Attachment Description(s):	Area:
Feature Description(s):	Units:

Other Building Improvements

Structure Type:	Year Built:	Area:	Condition:
			NA

Permit / Construction History

Date of Permit:	Permit Number:	Permit Amount:	Details of Permit:

Ownership / Sales History

Date of Sale:	Sale Amount:	Conveyance Type:
1900-01-00	0	

Land Data & Computations

Land Class	Total Square Footage:	Total Acreage:	Depth:	Actual Frontage:	Assessed Land Value:	Assessed Improvement:
Commercial	13068	0.3	0	0	$11000	$18300

Total Improvement Value	$18300
Total Land Value	$11000
Total Assessed Value	$29300

F.4

December 23, 2020

Mosinee Dry Cleaners
Attn: Annie Maas
735 Old Highway 51
Mosinee, WI 54455

Subject:

Mosinee Dry Cleaners
735 Old Highway 51
Mosinee, WI 54455
BRRTS #02-37-552230

I have reviewed the above legal description and hereby certify that they are correct to best of my knowledge for the Mosinee Cleaners site.

Certified Survey Map #14756, being all of CSM #1889 and Part of Government Lot 2, all in Section 28, Township 27 North, Range 7 East, City of Mosinee, Marathon County, Wisconsin.

A Maas 12-28-20

Annie Maas, Mosinee Cleaners — Date

Attachment G: Notification to Owners of Affected Properties
Canadian National Railroad

Notification of Continuing Obligations and Residual Contamination

The affected property is:

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

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

Contact Information

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

Responsible Party Name: Mosinee Dry Cleaners

Contact Person Last Name	First	MI	Phone Number (include area code)
Maas	Annie		(715) 693-2312

Address	City	State	ZIP Code
735 Old Highway 51	Mosinee	WI	54455

E-mail

Name of Party Receiving Notification:

Business Name, if applicable: Canadian National Railroad

Title	Last Name	First	MI	Phone Number (include area code)
	To Whom it May Concern			(715) 342-2775

Address	City	State	ZIP Code
1625 Depot Street	Stevens Point	WI	54481

Site Name and Source Property Information:

Site (Activity) Name: Mosinee Dry Cleaners

Address	City	State	ZIP Code
735 Old Highway 51	Mosinee	WI	54455

DNR ID # (BRRTS#)	(DATCP) ID #
02-37-552230	

Contacts for Questions:

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

Environmental Consultant: REI Engineering, Inc.

Contact Person Last Name	First	MI	Phone Number (include area code)
Delforge	Andrew	R	(715) 675-9784

Address	City	State	ZIP Code
4080 North 20th Avenue	Wausau	WI	54401

E-mail: adelforge@reiengineering.com

Department Contact:

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

Department of: Natural Resources (DNR) Office: Eau Claire

Address	City	State	ZIP Code
1300 W. Clairemont Avenue	Eau Claire	WI	54701

Contact Person Last Name	First	MI	Phone Number (include area code)
Thompson	Matthew	A	(715) 492-2304

E-mail (Firstname.Lastname@wisconsin.gov): matthewa.thompson@wisconsin.gov

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

KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

1625 Depot Street
Stevens Point, WI, 54481

Dear To Whom it May Concern:

I am providing this notification to inform you of the location and extent of contamination remaining in a right-of-way for which you are responsible, and of certain long-term responsibilities (continuing obligations) for which railroad of Canadian National may become responsible. I investigated a release of:
Tetrachloroethylene
on 735 Old Highway 51, Mosinee, WI, 54455 that has shown that contamination has migrated into the right-of-way for which Canadian National is responsible.
I have responded to the release, and will be requesting that the Department of Natural Resources (DNR) grant case closure. Closure means that the DNR will not be requiring any further investigation or cleanup action to be taken. However, continuing obligations may be imposed as a condition of closure approval.

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

The DNR will not review my closure request for at least 30 days after the date of this letter. As an affected right-of-way holder, you have a right to contact the DNR to provide any technical information that you may have that indicates that closure should not be granted for this site. If you would like to submit any information to the DNR that is relevant to this closure request, you should mail that information to the DNRcontact: 1300 W. Clairemont Avenue, Eau Claire, WI, 54701, or at matthewa.thompson@wisconsin.gov.

Residual Contamination:

Soil Contamination:

Soil contamination remains at:
Southern edge of right of way adjoining Mosinee Cleaners building
The remaining contaminants include :
Tetrachloroethylene
at levels which exceed the soil standards found in ch. NR 720, Wis. Adm. Code. The following steps have been taken to address any exposure to the remaining soil contamination.
Soil vapor extraction.

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

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

Residual Soil Contamination:
If soil is excavated from the areas with residual contamination, the right-of-way holder at the time of excavation will be responsible for the following:

- determine if contamination is present,
- determine whether the material would be considered solid or hazardous waste,
- ensure that any storage, treatment or disposal is in compliance with applicable statutes and rules. Contaminated soil may be managed in-place, in accordance with s. NR 718, Wis. Adm. Code, with prior Department approval.

The right-of-way holder needs to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken during excavation activities to prevent a health threat to humans from ingestion, inhalation or dermal contact.

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

Well Construction Requirements:

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

DNR 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. Special well construction standards may be necessary to protect the well from the remaining contamination. The property owner needs to first obtain approval from a regional water supply specialist in DNR's Drinking Water and Groundwater Program. A well driller can help complete this form. The well construction application, form 3300−254, is on the internet at https://dnr.wi.gov/files/PDF/forms/3300/3300-254.pdf

If you have any questions regarding this notification, I can be reached at: (715) 675-9784
adelforge@reiengineering.com

Signature of responsible party/environmental consultant for the responsible party	Date Signed
	12/17/20

Attachments
Contact Information
Legal Description for each Parcel:

MOSINEE FLOWAGE

RIVER RD.

MW5

MW4

MW6

RAILROAD TRACKS

APPROXIMATE P/L

GP-1

MW3

APPROXIMATE PROPOSED PARCEL SUBDIVISION

SVE WELLS AND PIPING

SYSTEM TRAILER

B300

GP-7

VE-2

B100

VE-1

SSI/SSI-A

VE-3

VE-4

FORMER DRY CLEANING MACHINE

PZI

EXISTING BUILDING

B200

SVP3

GP-2

MW7

GP-3

GP-6

B400

MW1

SVP2

GP-5

SVP1

APPROXIMATE P/L

MW2

GP-4

OLD HIGHWAY 51

N

LEGEND

0 30

SCALE: 1" = 30'

- RESIDUAL SOIL CONTAMINATION
- SVE WELLS
- SOIL GAS PROBE LOCATION
- SOIL SAMPLE LOCATION
- PIEZOMETER
- VAPOR PROBE LOCATION
- NORTHERN ENVIRONMENTAL BORINGS
- MONITORING WELL
- GEOPROBE SOIL BORING
- G — UNDERGROUND GAS
- W — UNDERGROUND WATER

REI CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

MOSINEE DRY CLEANERS
735 HIGHWAY 51
MOSINEE, WISCONSIN 54455

FIGURE B.2.b: RESIDUAL SOIL CONTAMINATION

PROJECT No.	DRAWN BY:	DATE:
5890	NAP	12/15/2020

REI Engineering, INC.

SENDER: *COMPLETE THIS SECTION*

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

1. Article Addressed to:

To Whom It May Concern
1625 Depot St.
Stevens Point, WI 54481

9590 9402 4954 9063 3132 54

2. Article Number *(Transfer from service label)*

7019 0160 0000 0013 8411

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X [signature] ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* | C. Date of Deliv

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

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Mail
- ☐ Mail Restricted Delivery
- 00)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

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