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10/31/97

UNDERGROUND STORAGE TANK SITE ASSESSMENT REPORT

Eau Claire Lakes Airport
Barnes, Wisconsin

April 1998

Prepared By:
Northwest Petroleum of Brule
13905 East Park Road
Brule, WI 54820

Prepared For:
Eau Claire Lakes Airport
Ms. Viola Firemood
Barnes, Wisconsin

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INTRODUCTION

This report presents the findings and recommendation of an underground storage tank site assessment, conducted by Northwest Petroleum of Brule, during removal from the Eau Claire Lakes Airport in Barnes, Wisconsin.

BACKGROUND INFORMATION

Information regarding the site, site owner, certified tank remover, and certified site assessor is provided below.

SITE:
Eau Claire Lakes Airport
County Highway "N"
Barnes, WI 54873

SITE OWNER:
Ms. Viola Firemood
HCR 61 Box 5506
Barnes, WI 54873
(715) 795-2248

CERTIFIED TANK REMOVER:
Mr. Ron Tahtinen
Northwest Petroleum of Brule
13905 E. Park Road
Brule, WI 54820
(715) 372-5000
Certification # 41002

CERTIFIED SITE ASSESSOR:
Mr. Ron Tahtinen
Northwest Petroleum of Brule
13905 E. Park Road
Brule, WI 54820
(715) 372-5000
Certification # 41002

SITE LOCATION

The site is located along County Highway "N" in the Town of Barnes, Bayfield County, Wisconsin. The site is located approximately 2 miles east of U.S. Highway 27 and approximately 800 feet east

of Barnes Road and the Barnes Town Hall (Figure 1). The U.S. Land Survey position for the site is: SW¼, SE¼, Sec 28, T45N, R9W.

SITE DESCRIPTION

Currently occupying the site is the Eau Claire Lakes Airport. The Airport consists of a grass runway. There are no structures, buildings or landmarks at the site.

The underground storage tank (UST) formally located at the site consisted of one 550-gallon aviation fuel UST. The dispenser was located directly above the UST, which was used to store aviation fuel for airplanes. The UST was located approximately 160 feet north of County Highway "N" (Figure 2).

Northwest Petroleum of Brule was hired to remove the UST to comply with state regulations. Northwest Petroleum of Brule also completed a site assessment at the time of removal.

TANK REMOVAL AND EXCAVATION ACTIVITIES

Northwest Petroleum of Brule notified the Wisconsin Department of Commerce of the planned UST removal and cleared utilities prior to initiating the work. The Wisconsin Department of Commerce notification record is provided in Appendix A. The UST removal and site assessment were completed by Northwest Petroleum of Brule on October 3, 1997

Prior to removal, the UST was pumped to recover all remaining product and purged (inerted) using nitrogen gas. The atmosphere within the UST was monitored with an explosimeter. When the atmosphere was demonstrated to be below the lower explosive limit (LEL), the UST was removed using a backhoe. The top of the UST was approximately 2 feet bgs. The excavations reached a depth of approximately 6 feet bgs. The backfill and native soil surrounding the aviation UST consisted of medium-grained sand. Groundwater was not encountered during the excavation.

Following removal, both ends of the UST were cut open and the UST was cleaned. The UST was loaded on to a trailer for transport by Northwest Petroleum of Brule to Azcon Corporation, 630 Arthur Ave., Duluth, MN 55802 (218) 722-7703.

Soil overlying the UST was returned to the excavation. The balance of the excavation was backfilled to grade. The site owners provided the excavation services and backfill. There are no other known UST's remaining on-site. The UST closure checklist and inventory forms are included in Appendix A.

SURPLUS PRODUCT MANAGEMENT

There was no product remaining within the UST prior to removal, the UST was completely empty.

TANK SLUDGE MANAGEMENT

There was no measurable solids removed from the UST during cleaning.

FIELD SAMPLING METHODS

Soil field screening was performed on soil samples collected from within the excavation. A Photovac® Microtip MP-100 photoionization detector (PID) with a 10.6 eV lamp was used for headspace analysis in accordance with WDNR *Leaking Underground Storage Tank Program Field Screening Procedures* (PUBL-SW-176-92). A zip-loc® baggie was used to perform the soil headspace analysis. Each baggie was filled approximately 1/3 full with soil, sealed and allowed to equilibrate for 10 minutes. After equilibration the PID tip was inserted into the sample baggie. The head space results were measured in instrument units (iu) as Isobutylene. The instrument reading for each sample was recorded.

Soil samples collected for laboratory analysis were obtained from native soil within the excavation using clean disposable nitrile gloves. A duplicate of each laboratory sample was collected for field headspace screening. Soil samples were collected in the location and frequency mandated by the WDNR *Site Assessments for Underground Storage Tanks Technical Guidance* (PUBL-SW-175-93).

The soil samples collected for laboratory analysis were weighed and placed into glass jars with teflon-lined lids, as supplied by the laboratory. The sample container were labeled and placed in a cooler with ice for transport to the laboratory. All soil samples were collected in accordance with the *WDNR LUST and Petroleum Analytical and Quality Assurance Guidance* (PUBL-SW-130-93) and the revisions outlined in *Release New* July 1995.

RESULTS

The piping and UST appeared to be in good condition. There was no obvious petroleum odor or staining present in the soil below or adjacent to the dispensers or UST. Only one sample was collected for field headspace analysis and laboratory analysis. Because the dispenser was located directly above the UST and the UST was less than 5 feet long, only one soil samples was collected directly below the center of the UST.

This sample did not result in organic vapor detections. Based on these observations, a release was not suspected. The following table presents a summary of the field screening and laboratory

analytical results for the samples collected. The laboratory analytical report is included in Appendix B.

Table 1: Soil Sampling Summary

Parameter	Sample Identification
	S.S-1 Bottom - Center
Date Sampled	10/3/98
Depth (ft bgs)	7
Matrix	Sand
PID (ppm)	0.0
PVOCs (Units = mg/kg,)	ND
GRO (Units = mg/kg,)	ND

Notes: Results reported in brackets and bold exceed established environmental standards
mg/kg = milligrams per kilogram
ft bgs = feet below ground surface
PID results reported in ppm as isobutylene equivalents
na = not analyzed for this parameter

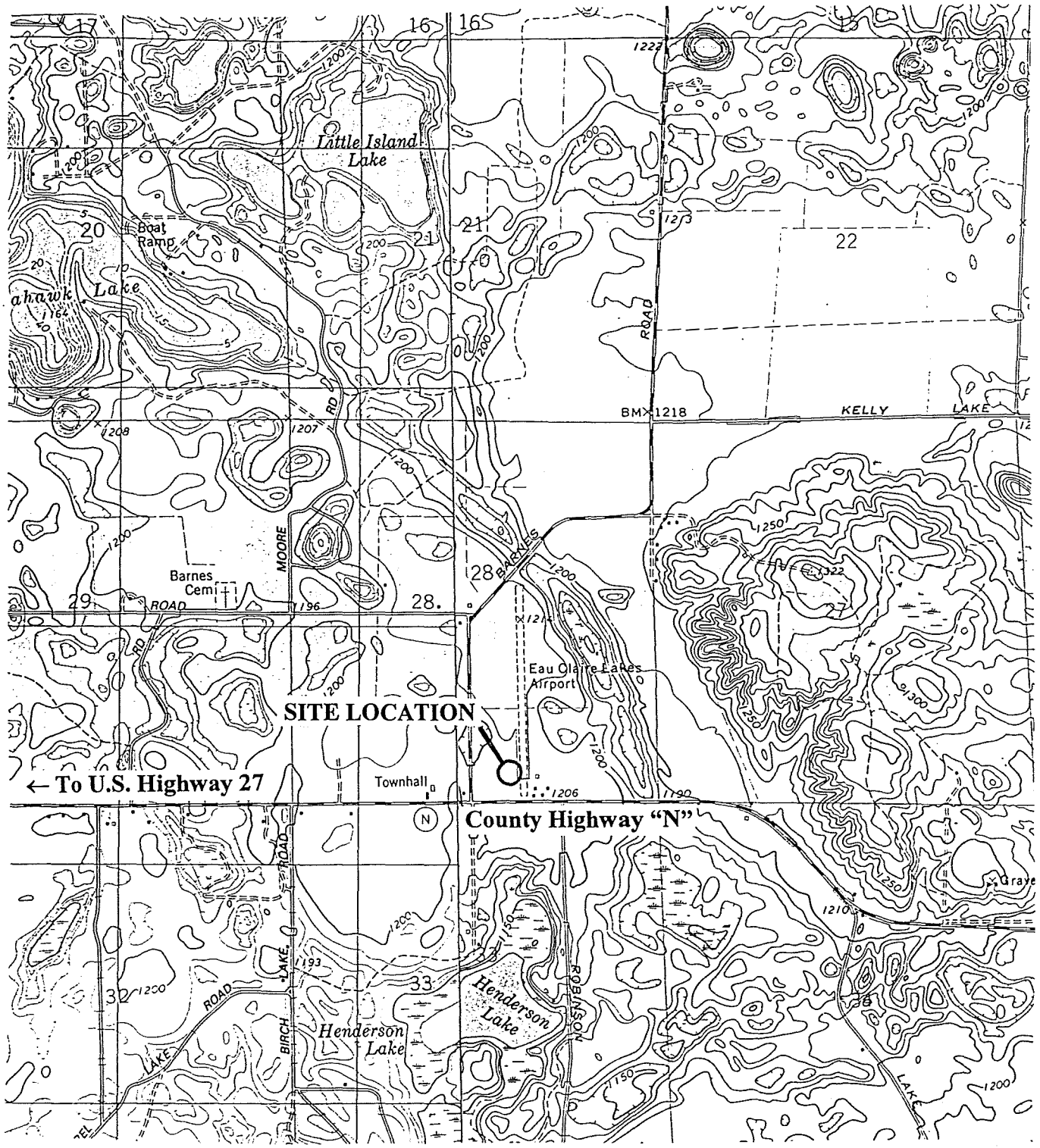
CONCLUSIONS AND RECOMMENDATIONS

Based on the results reported above, there does not appear to be a petroleum release to soil from this UST system. No further action is recommended.

FIGURES

R 9 W

T 45 N



SCALE 1:24000

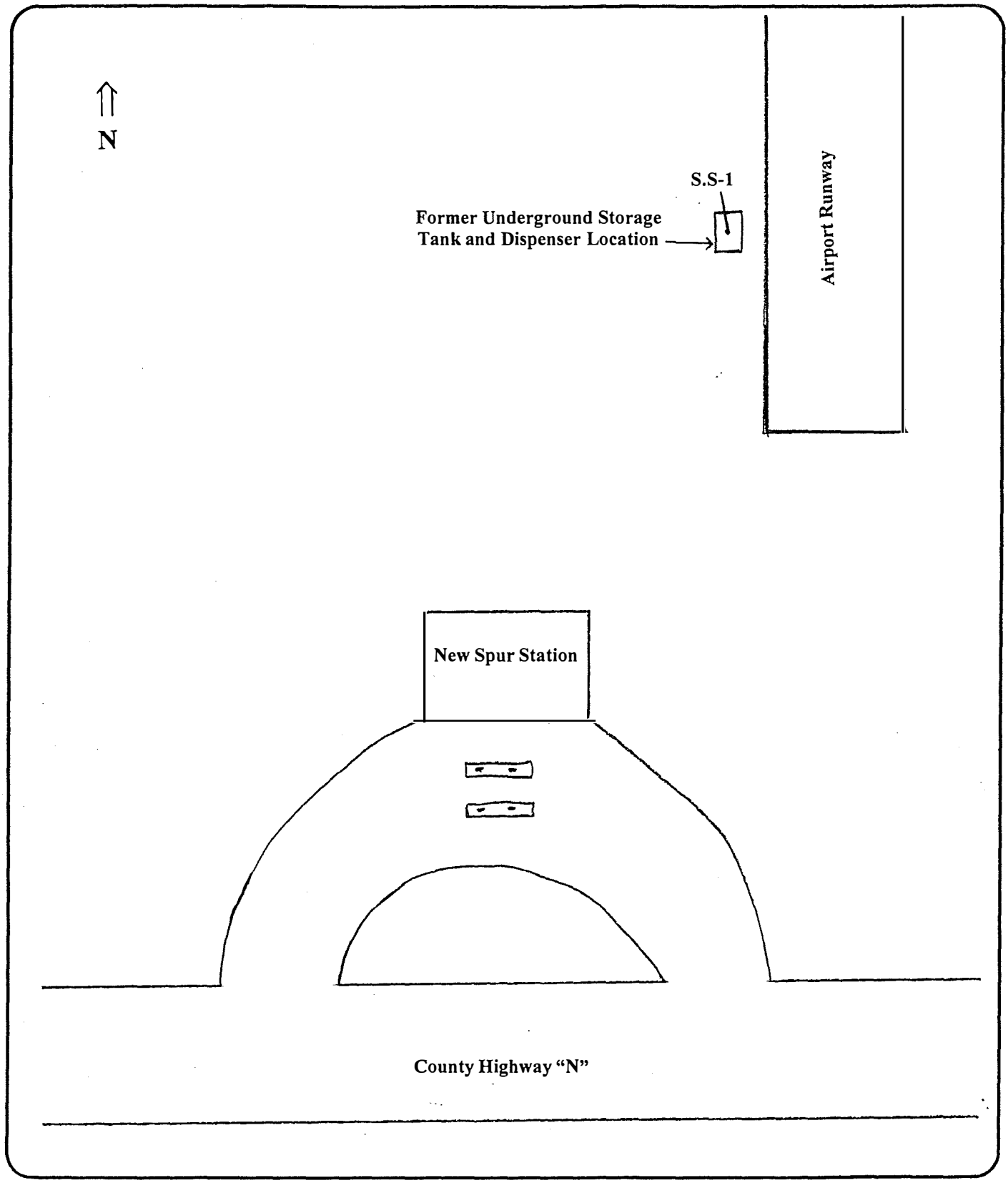
1000 0 1000 2000 3000 FEET

N

Source: Part of the Ellison Lake and Upper Eau Claire Lakes Quadrangles - U.S.G.S 7.5-minute series (Topographic)

Aerial Photo: 1959 and 1983
Field Checked: 1984
Edited: 1984

CREATED BY: NWP of Brule
FILE NAME:
DATE: April 1998
Figure 1
Site Location Map
Eau Claire Lakes Airport Barnes, Wisconsin



Approximate Scale 1 inch = 30 feet

S.S-1 = Soil Sample Location and Number

CREATED BY:	NWP of Brule
FILE NAME:	
DATE:	April 1998

Figure 2

Site Layout Map

Eau Claire Lakes Airport
Barnes, Wisconsin

APPENDICES

APPENDIX A

Underground Petroleum Product Tank Inventory / Checklist

ILHR 10 Notification Record

Personal information you provide may be used for secondary purposes [Privacy Law, s.15.04 (1)(m)].

TO: Rick Rugg OFFICE LOCATION:

LOCATION / IDENTIFICATION (Please print or type)

Site Name			Owner Name		
K & O ~~Lake~~ Lakes Airport			Viola Fjermood		
Site Street Address			Owner Street or PO Address		
CTY RD N Barnes RD			H.C.R. 61 Box 5506		
☐ City ☐ Village ☑ Town of Barnes			☐ City ☐ Village ☑ Town of Barnes		
County	Zip Code		State	Zip Code	Telephone
Bayfield	54873		WI	54873	(715) 795-2248

Fire Department providing fire protection coverage: Barnes

Name of Contractor: N. W. P-B

Address of Contractor: 13905 E. Pk. Rd.

City/Town: Brule WI

Telephone Number: (715) 372-5000 Fax Number: (715) 372-5011

Date work is to begin: OCT 3 1997

ILHR 10 certified project supervisor: Ron T #41002

Project will involve:	No. of tanks UST	No. of tanks AST	Plan Number	Approval Date
Tank Installation	☐	☐		
Piping Installation/Upgrade	☐	☐		
Leak Detection Upgrade	☐	☐		
Spill/Overfill Protection	☐	☐		
Stage II Vapor Recovery	☐	☐		
Tank Closure	☐	☐		
Cathodic Protection/Lining	☒	☐		

Remarks: Remove one 550 gal G.U. U.S.T.

State of Wisconsin
Safety & Buildings Division
Storage Tank, Permit & Registration Section

SBD-9198 (R.03/96)

State of Wisconsin

WI Tank ID#: 04810-0011

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Information Required By Section 101.142, Wis. Stats.

Send Completed Form To:
Department of Commerce
ERS Division
Bureau of Storage Tank Regulation
P.O. Box 7969, Madison, WI 53707

Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered. Please see the reverse side for additional information on this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume (including piping) located below ground level. A separate form is needed for each tank. Send each completed form to the agency designated in the top right corner. Have you previously registered this tank by submitting a form? ☒ Yes ☐ No If yes, are you correcting/updating information only? ☒ Yes ☐ No

Personal information you provide may be used for secondary purposes. [Privacy Law, s. 15.04 (1)(m)]

This registration applies to a tank that is (check one):

1A. ☐ In Use or
1B. ☐ Newly Installed
2. ☐ Abandoned with Product
3. ☐ Abandoned No Product (empty) or with Water
4. ☒ Closed - Tank Removed
6. ☐ Closed - Filled with Inert Materials
7. ☐ Out of Service - Provide Date: _____
8. ☐ Ownership Change (Indicate new owner name in block 2)

Fire Department providing fire coverage where tank is located:
☐ City ☐ Village
☒ Town of BARNES

A. IDENTIFICATION (Please Print)

1. Tank Site Name	Site Address	Site Telephone Number
Eau Claire Airport	CTY RD N Barnes Rd	(715) 795-3348
☐ City ☐ Village ☒ Town of: Barnes	State: WI / Zip Code: 54873	County: Bayfield
2. Tank Owner Name	**Mailing Address**	**Telephone Number**
Viola Friemood	H.C.R 61 Box 5506	715-795-3348
☐ City ☐ Village ☒ Town of: Barnes	State: WI / Zip Code: 54873	County: Bayfield
3. Previous Name	Previous site address if different than #1	

4. Tank Age (date installed, if known or years old)	5. Tank Capacity (gallons)	6. If more than one tank is located at facility, please provide tank #
Unknown	550	

B. TYPE OF USER (check one)

1. ☐ Gas/Retail Sales 2. ☐ Bulk Storage 3. ☐ Utility 4. ☐ Mercantile/Commercial 5. ☐ Industrial
6. ☐ Government 7. ☐ School 8. ☐ Residential 9. ☐ Agricultural 10. ☒ Other (specify): Airport
11. ☐ Tribal Nation 12. ☐ Federal Property 13. ☐ Backup Generator

C. TANK CONSTRUCTION (check one)

1. ☐ Bare Steel 2. ☐ Cathodically Protected & Coated Steel (Check one: A. ☐ Sacrificial Anodes or B. ☐ Impressed Current)
3. ☒ Coated Steel 4. ☐ Fiberglass 5. ☐ Other (specify): _____
6. ☐ Lined - Date: _____ 7. ☐ Steel - Fiberglass Reinforced Plastic Composite 9. ☐ Unknown

Approval: 1. ☐ Nat'l Std. 2. ☒ UL 3. ☐ Other: | Is tank double walled? ☐ Yes ☒ No

Overfill Protection Provided? ☐ Yes ☐ No If yes, identify type: | Spill Containment? ☐ Yes ☒ No

Tank leak detection method: 1. ☐ Automatic tank gauging 2. ☐ Vapor monitoring 3. ☐ Groundwater monitoring
4. ☐ Inventory control and tightness testing 5. ☐ Interstitial monitoring
7. ☒ Manual tank gauging (only for tanks of 1,000 gallons or less) 8. ☐ Statistical Inventory Reconciliation (SIR)

D. PIPING CONSTRUCTION

1. ☒ Bare Steel 2. ☐ Cathodically Protected & Coated Steel (Check one: A. ☐ Sacrificial Anodes or B. ☐ Impressed Current)
3. ☐ Coated Steel 4. ☐ Fiberglass 5. ☐ Other (Specify): 9. ☐ Unknown

Vapor Recovery/Stage II
4. ☐ Fiberglass 6. ☐ Flexible 5. ☐ Other (specify): ☐ CARB #: _____ ☐ Operational - Provide Date (mo/day/yr): _____

Piping System Type: 1. ☐ Pressurized piping with A. ☐ auto shutoff; B. ☐ alarm or C. ☐ flow restrictor
2. ☐ Suction piping with check valve at tank 3. ☒ Suction piping with check valve at pump and inspectable 4. ☐ Not needed if waste oil

Piping leak detection method: used if pressurized or check valve at tank: 1. ☐ Vapor monitoring 2. ☐ Interstitial monitoring
3. ☐ Groundwater monitoring 4. ☐ Tightness testing 5. ☐ Line leak detector 6. ☒ Not required 8. ☐ SIR

Approval: 1. ☒ Nat'l Std. 2. ☐ UL 3. ☐ Other: | Is pipe double walled? ☐ Yes ☒ No

E. TANK CONTENTS

1. ☐ Diesel 2. ☐ Leaded 3. ☐ Unleaded 4. ☐ Fuel Oil 5. ☐ Gasohol
6. ☐ Other (Specify): _____ 7. ☐ Empty* 8. ☐ Sand/Gravel/Slurry* 9. ☐ Unknown* 10. ☐ Premix
11. ☐ Waste/Used Motor Oil 13. ☐ Chemical _____ (Indicate chemical name and number) 14. ☐ Kerosene 15. ☒ Aviation

* If 7, 8, 9, or 13 is chosen, this tank is NOT PECFA eligible.

If Tank Closed, Abandoned or Out of Service, give date (mo/day/yr):	Has a site assessment been completed (see reverse side for details) ☒ Yes ☐ No

Owner or Operator Name (please print):	Indicate whether: ☒ Owner or ☐ Operator
X Viola S. Friemood	
Owner or Operator Signature:	**Date Signed**
X Viola S Friemood	10/03/97

IMPORTANT: Failure to provide sufficient information may cause you to fall under additional regulations, and may delay PECFA eligibility determination. It is necessary to complete ALL shaded areas and as many other items as possible.

ERS-7437 (R. 01/97)

Wisconsin Department of Industry, Labor and Human Relations

Complete one form for each site closure.

CHECKLIST FOR UNDERGROUND TANK CLOSURE

The information you provide may be used by other government agency programs [Privacy Law, s. 15.04 (1) (m)].

RETURN COMPLETED CHECKLIST TO:
Safety & Buildings Division
Fire Prevention & Underground Storage Tank Section
P. O. Box 7969, Madison, WI 53707

A. IDENTIFICATION: (Please Print) Indicate whether closure is for: ☒ Tank System ☐ Tank Only ☐ Piping Only

1. Site Name	2. Owner Name
~~FBO~~ Eau-Claire Lakes Airport	V/o/a Fairmoon
Site Street Address (not P.O. Box)	Owner Street Address
CTY RD N. Barnes RD	H.C.R. G1 Box 5506
☐ City ☐ Village ☒ Town of: Barnes	☐ City ☐ Village ☒ Town of: BARNES; State: WI; Zip Code: 54873
State: WI; Zip Code: 54873; County: Bayfield	County: Bayfield; Telephone No. (include area code): (715) 795-2248

3. Closure Company Name (Print)	Closure Company Street Address,
Northwest Petroleum of Brule	13905 E. PK. RD
Closure Company Telephone No. (include area code)	Closure Company City, State, Zip Code
(715) 372-5000	Brule, WI 54820
4. Name of Company Performing Closure Assessment	Assessment Company Street Address, City, State, Zip Code
Northwest Petroleum of Brule	
Telephone # (include area code)	Certified Assessor Name (Print)	Assessor Signature	Assessor Certification No.
(715) 372-5000	~~Leon~~ Ron Tatarek	Ron Tatarek	41002

Tank ID #	Closure	Temp. Closure	Closure In Place	Tank Capacity	Contents *	Closure Assessment
1. 04010-0011	☒	☐	☐	550	15	☒ Y ☐ N
2.	☐	☐	☐			☐ Y ☐ N
3.	☐	☐	☐			☐ Y ☐ N
4.	☐	☐	☐			☐ Y ☐ N
5.	☐	☐	☐			☐ Y ☐ N
6.	☐	☐	☐			☐ Y ☐ N

* Indicate which product by numeric code: 01-Diesel; 02-Leaded; 03-Unleaded; 04-Fuel Oil; 05-Gasohol; 06-Other; 09-Unknown; 10-Premix; 11-Waste oil; 13-Chemical (indicate the chemical name(s) or numbers(s) _____ _____ _____; 14-Kerosene; 15-Aviation.

Written notification was provided to the local agent 15 days in advance of closure date. ☒ Y ☐ N ☐ NA
All local permits were obtained before beginning closure. ☒ Y ☐ N ☐ NA

Check applicable box at right in response to all statements in Sections B - E.

B. TEMPORARILY OUT OF SERVICE	Remover Verified	Inspector Verified	NA
Written inspector approval of temporary closure obtained, which is effective until (provide date) _____	☐ Y ☐ N	☐	☐
1. Product Removed			
a. Product lines drained into tank (or other container) and resulting liquid removed, AND	☐ Y ☐ N	☐	☐
b. All product removed to bottom of suction line, OR	☐ Y ☐ N	☐	☐
c. All product removed to within 1" of bottom.	☐ Y ☐ N	☐	☐
2. Fill pipe, gauge pipe, tank truck vapor recovery fittings, and vapor return lines capped.	☐ Y ☐ N	☐	☐
3. All product lines at the islands or pumps located elsewhere are removed and capped, OR	☐ Y ☐ N	☐	☐
4. Dispensers/pumps left in place but locked and power disconnected.	☐ Y ☐ N	☐	☐
5. Vent lines left open.	☐ Y ☐ N	☐	☐
6. Inventory form filed indicating temporary closure.	☐ Y ☐ N	☐	☐

C. CLOSURE BY REMOVAL			
1. Product from piping drained into tank (or other container).	☒ Y ☐ N	☒	☐
2. Piping disconnected from tank and removed.	☒ Y ☐ N	☒	☐
3. All liquid and residue removed from tank using explosion proof pumps or hand pumps.	☒ Y ☐ N	☒	☐
4. All pump motors and suction hoses bonded to tank or otherwise grounded.	☒ Y ☐ N	☒	☐
5. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed. **NOTE: DROP TUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH THE USE OF AN EDUCTOR.**	☒ Y ☐ N	☒	☐
6. Vent lines left connected until tanks purged.	☒ Y ☐ N	☒	☐
7. Tank openings temporarily plugged so vapors exit through vent.	☒ Y ☐ N	☒	☐
8. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section F.	☒ Y ☐ N	☒	☐
9. Tank removed from excavation after **PURGING/INERTING**; placed on level ground and blocked to prevent movement.	☒ Y ☐ N	☒	☐
10. Tank cleaned before being removed being removed from site.	☒ Y ☐ N	☒	☐

- CONTINUE ON NEXT PAGE -

C. CLOSURE BY REMOVAL (continued)

	Remover Verified	Inspector Verified	NA
11. Tank labeled in 2" high letters after removal but before being moved from site.	☒ Y ☐ N	☒	☐
NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE; FORMER CONTENTS; VAPOR STATE; VAPOR FREEING TREATMENT; DATE.			
12. Tank vent hole (1/8 th " in uppermost part of tank) installed prior to moving the tank from site.	☒ Y ☐ N	☒	☐
13. Inventory form filed by owner with Safety and Buildings Division indicating closure by removal.	☒ Y ☐ N	☒	☐
14. Site security is provided while the excavation is open.	☒ Y ☐ N	☒	☐

D. CLOSURE IN PLACE

NOTE: CLOSURES IN PLACE ARE ONLY ALLOWED WITH THE PRIOR WRITTEN APPROVAL OF THE DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS OR LOCAL AGENT.

1. Product from piping drained into tank (or other container).			
2. Piping disconnected from tank and removed.	☐ Y ☐ N	☐	☐
3. All liquid and residue removed from tank using explosion proof pumps or hand pumps.	☐ Y ☐ N	☐	☐
4. All pump motors and suction hoses bonded to tank or otherwise grounded.	☐ Y ☐ N	☐	☐
5. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed.	☐ Y ☐ N	☐	☐
NOTE: DROP TUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH THE USE OF AN EDUCTOR - EDUCTOR OUTPUT 12 FT ABOVE GRADE.			
6. Vent lines left connected until tanks purged.	☐ Y ☐ N	☐	☐
7. Tank openings temporarily plugged so vapors exit through vent.	☐ Y ☐ N	☐	☐
8. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section F.	☐ Y ☐ N	☐	☐
9. Tank properly cleaned to remove all sludge and residue.	☐ Y ☐ N	☐	☐
10. Solid inert material (sand, cyclone boiler slag, pea gravel recommended) introduced and tank filled.	☐ Y ☐ N	☐	☐
11. Vent line disconnected or removed.	☐ Y ☐ N	☐	☐
12. Inventory form filed by owner with Safety and Buildings Division indicating closure in place.	☐ Y ☐ N	☐	☐

E. CLOSURE ASSESSMENTS

NOTE: DETERMINE IF A CLOSURE ASSESSMENT IS REQUIRED BY REFERRING TO ILHR 10.

1. Individual conducting the assessment has a closure assessment plan (written) which is used as the basis for their work on the site.	☒ Y ☐ N	☒	☐
2. Do points of obvious contamination exist?	☐ Y ☒ N	☒	☐
3. Are there strong odors in the soils?	☐ Y ☐ N	☒	☐
4. Was a field screening instrument used to pre-screen soil sample locations?	☒ Y ☐ N	☒	☐
5. Was a closure assessment omitted because of obvious contamination?	☐ Y ☐ N	☒	☐
6. Was the DNR notified of suspected or obvious contamination?	☐ Y ☐ N	☒	☐

Agency, office and person contacted: _____

7. Contamination suspected because of: ☐ Odor ☐ Soil Staining ☐ Free Product ☐ Sheen On Groundwater ☐ Field Instrument Test

F. METHOD OF ACHIEVING 10% LEVEL DESCRIPTION

☐ Educator Or Diffused Air Blower

Eductor driven by compressed air, bonded and drop tube left in place; vapors discharged minimum of 12 feet above ground. Diffused air blower bonded and drop tube removed. Air pressure not exceeding 5 psig.

☐ Dry Ice

Dry ice introduced at 1.5 pounds per 100 gallons of tank capacity. Dry ice crushed and distributed over the greatest possible tank area. Dry ice evaporated before proceeding.

☒ Inert Gas (CO/2 or (N/2)) **NOTE: INERT GASSES PRODUCE AN OXYGEN DEFICIENT ATMOSPHERE. THE TANK MAY NOT BE ENTERED IN THIS STATE WITHOUT SPECIAL EQUIPMENT**

Gas introduced through a single opening at a point near the bottom of the tank at the end of the tank opposite the vent. Gas introduced under low pressure not to exceed 5 psig to reduce static electricity. Gas introducing device grounded.

☐ Tank atmosphere monitored for flammable or combustible vapor levels.

Calibrate combustible gas indicator. Drop tube removed prior to checking atmosphere. Tank space monitored at bottom, middle and upper portion of tank. Readings of 10% or less of the lower flammable range (LEL) obtained before removing tank from ground.

G. NOTE SPECIFIC PROBLEMS OR NONCOMPLIANCE ISSUES BELOW

H. REMOVER/CLEANER INFORMATION

Remover Name (print)	Remover Signature	Remover Certification No.	Date Signed
Ronald Tahtinen Sr	Ronald Tahtinen Sr	41002	10/3/97

I. INSPECTOR INFORMATION

Inspector Name (print)	Inspector Signature	Inspector Certification No.
Richard Rugg	Richard Rugg	07219
FDID # For Location Where Inspection Performed	Inspector Telephone Number	Date Signed
0401 [redacted]	715 3940229	10/3/97

OWNER

APPENDIX B

Analytical Report

Page 1 of 1

Company Name: NORTHWEST PETRO.
Branch or Location: BRULE WI
Project Contact: RON T
Telephone: 715-372-5000
Project Number: 0016
Project Name: EAU-CLAIRE LAKES AIRPORT
Project Location: BARRON'S WI
Sampled By (Print): RON T Sr.
Regulatory Program (circle): (UST) RCRA CLP SDWA
NPDES/WPDES CAA NR____ Other____

VM DW 10-6-97

EN CHEM INC.

1241 Bellevue St., Suite 9
Green Bay, WI 54302
414-469-2436 • 1-800-736-2436
FAX 414-469-8827

2231 Catlin Ave., Suite 420
Superior, WI 54880
715-392-5844 • 1-800-837-8238
FAX 715-392-5843

CHAIN OF CUSTODY

NR720 Confirmation Analysis Required?
(En Chem will confirm unless otherwise instructed.)

Mail Report To:
Company: NORTHWEST PETROLEUM OF BRULE, INC.
Address: 13905 E. Park Rd Brule, WI 54820-9115

Invoice To: SAME AS ABOVE
Company:
Address:

P.O. No.: Quote No.:

Field ID	Sample Description	Collection Date	Collection Time	Field Screen	Matrix	Filt'd Y/N	Preserv*	Analysis Requested	SHADED AREA FOR LABORATORY USE ONLY: Good Cond.	Total Bottles	Comments	Laboratory Number
S.S1	UNDER CENTER OF TANK	9/30/97	3:00		Soil		F	GRO-PVOC	✓	1-2oz	W/MeOH	-001
1	DUP WELL HT								✓	1-40mL VIAL		-001
1	TRIP BLANK								✓	1-40mL		-002

*Preservation Code
A=None B=HCL C=H2SO4
D=HNO3 E=EnCore F=Methanol**
G=NaOH O=Other (Indicate)

**If not using En Chem's methanol, indicate volume of methanol added and mark the appropriate samples.

Relinquished By:	Date/Time:	Received By:	En Chem Project No.
Ron Tetzlaff Sr	10-6-97 9:15am		770207
Relinquished By:	Date/Time:	Received By:	Sample Receipt Temp. (Must be rec'd at 4°C)
Relinquished By:	Date/Time:	Received By (En Chem):	10-6-97 ROI

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1795 Industrial Drive
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414-469-2436 • Fax: 414-469-8827
1-800-7-ENCHEM

- Analytical Report -

Project Name : EAU-CLAIRE LAKES AIRPORT

Project Number : 0216

Client: NORTHWEST PETROLEUM OF BRUL

WI DNR LAB ID : 816079330

Report Date : 10/13/97

Sample No.	Field ID	Collection Date	Sample No.	Field ID	Collection Date
770207-001	S.S1	10/3/97			
770207-002	MEOH BLANK	10/3/97			

The "Q" flag is present when a parameter has been detected below the LOQ. This indicates the results are qualified due to the uncertainty of the parameter concentration between the LOD and the LOQ.

Soil VOC detects are corrected for the total solids, unless otherwise noted.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this final report is authorized by Laboratory management, as is verified by the following signature.

Michael D. Cuff

Approval Signature

10-13-97

Date

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- Analytical Report -

Project Name : EAU-CLAIRE LAKES AIRPORT
Project Number : 0216
Field ID : S.S1
Lab Sample Number : 770207-001
WI DNR LAB ID : 816079330
Client : NORTHWEST PETROLEUM OF BRULE
Report Date : 10/13/97
Collection Date : 10/3/97
Matrix Type : SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analys
Solids, percent	96.6				%		10/7/97	SM2540G	SM2540G	KIG

Organic Results

GASOLINE RANGE ORGANICS - SOIL/METHANOL — Prep Method: WI Mod GRO — Prep Date: 10/9/97 — Analyst: MDC

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Gasoline Range Organics	< 2.6			2.6	mg/kg		10/10/97	WI Mod GRO
Blank Spike	114				%Recov		10/10/97	WI Mod GRO
Blank Spike Duplicate	116				%Recov		10/10/97	WI Mod GRO

Organic Results

PVOC - METHANOL PRESERVED SOIL — Prep Method: SW846 5030 — Prep Date: 10/9/97 — Analyst: MDC

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
a,a,a-Trifluorotoluene	103				%Recov		10/10/97	SW846 8020
Benzene	< 25	25	60		ug/kg		10/10/97	SW846 8020
Ethylbenzene	< 25	25	60		ug/kg		10/10/97	SW846 8020
Methyl-tert-butyl-ether	< 25	25	60		ug/kg		10/10/97	SW846 8020
Toluene	< 25	25	60		ug/kg		10/10/97	SW846 8020
1,3,5-Trimethylbenzene	< 25	25	60		ug/kg		10/10/97	SW846 8020
1,2,4-Trimethylbenzene	< 25	25	60		ug/kg		10/10/97	SW846 8020
Xylenes, -m, -p	< 25	25	60		ug/kg		10/10/97	SW846 8020
Xylene, -o	< 25	25	60		ug/kg		10/10/97	SW846 8020

All soil results are reported on a dry weight basis unless otherwise noted.

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- Analytical Report -

Project Name : EAU-CLAIRE LAKES AIRPORT
Project Number : 0216
Field ID : MEOH BLANK
Lab Sample Number : 770207-002
WI DNR LAB ID : 816079330
Client : NORTHWEST PETROLEUM OF BRULE
Report Date : 10/13/97
Collection Date : 10/3/97
Matrix Type : METHANOL

Organic Results

GASOLINE RANGE ORGANICS - METHANOL — Prep Method: WI Mod GRO — Prep Date: 10/9/97 — Analyst: MDC

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Gasoline Range Organics	< 2500			2500	ug/L		10/10/97	WI Mod GRO
Blank Spike	114				%Recov		10/10/97	WI Mod GRO
Blank Spike Duplicate	116				%Recov		10/10/97	WI Mod GRO

Organic Results

PVOC - METHANOL — Prep Method: SW846 5030 — Prep Date: 10/9/97 — Analyst: MDC

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
a,a,a-Trifluorotoluene	106				%Recov		10/10/97	SW846 8020
Benzene	< 25	25	60		ug/l		10/10/97	SW846 8020
Ethylbenzene	< 25	25	60		ug/l		10/10/97	SW846 8020
Methyl-tert-butyl-ether	< 25	25	60		ug/l		10/10/97	SW846 8020
Toluene	< 25	25	60		ug/l		10/10/97	SW846 8020
1,3,5-Trimethylbenzene	< 25	25	60		ug/l		10/10/97	SW846 8020
1,2,4-Trimethylbenzene	< 25	25	60		ug/l		10/10/97	SW846 8020
Xylenes, -m, -p	< 25	25	60		ug/l		10/10/97	SW846 8020
Xylene, -o	< 25	25	60		ug/l		10/10/97	SW846 8020

APPENDIX C

Certifications

WISCONSIN DIVISION OF SAFETY & BUILDINGS
Customer Id: 41002
RONALD E TAHTINEN SR

Applicant's Signature: Ron Tahtinen Sr

Credential Name	Expires
PECFA Consultant Registration	11/01/98
Tank System Remover-Cleaner Certification	01/17/98
Underground Tank System Installer Certification	01/17/98
Site Assessor Certification	01/17/98
Aboveground Tank System Installer Certification	01/17/98
Tank System Tightness Tester Certification	01/17/98