WCR008
6-5-02

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09-37-338023

UNDERGROUND STORAGE TANK/ SUBSURFACE SITE ASSESSMENT

BLUE MOON TAVERN
140 FRONT STREET
UNITY, WI

WCR

REI PROJECT #2461

PREPARED FOR:

Shirley Reigel
140 Front Street
Unity, WI 54488
(715) 223-2191

PREPARED BY:

REI
4080 North 20th Ave.
Wausau, WI 54401
(715) 675-9784

June 2002

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UNDERGROUND STORAGE TANK/ SUBSURFACE SITE ASSESSMENT

BLUE MOON TAVERN
140 FRONT STREET
UNITY, WI

REI PROJECT #2461

1.0 INTRODUCTION

This report represents the results and observations made from an underground storage tank (UST) excavation assessment at the Blue Moon Tavern in Unity, Wisconsin. The legal description of the property is the SW ¼ of the NW ¼ of Section 6, Township 27 North, Range 2 East, Marathon County, Wisconsin (Figure 1). The site address is 140 Front Street, Unity, Wisconsin. The site contact is Ms. Shirley Reigel. The phone number is (715) 223-2191.

The scope of services included the following:

1. Observe the excavation and removal of one-three hundred-gallon underground storage tank (UST).

2. Collect one representative soil sample for laboratory analysis for Gasoline Range Organics (GRO) as required by the Wisconsin Department of Industry, Labor and Human Relations (DILHR) guidelines.

3. Provide a report summarizing all data and methodologies from the assessment.

2.0 SITE INFORMATION AND GENERAL GEOLOGY

2.1 Site History

The site is currently a tavern. The removed USTs were apparently used to store gasoline to fuel vehicles. According to the owner, the UST had not been used since approximately 1960.

2.2 Surrounding Population and Land Use

The site is located in Village of Unity at 140 Front Street (Highway 13). The site topography is fairly flat. The topography in the area consists of rolling hills. The area where the UST and fill pipe was located was covered by grass and/or gravel. The site is bordered by commercial and residential property.

2.3 Geological Conditions

The subject property is located in the Central Wisconsin River Basin. The surface geology in the area consists of glacial ground moraine deposits. Deposits consist of clayey and silty till with fragments of nearby bedrock. The permeability rates of these deposits range from 0.05 to 0.2 inches per hour (Devaul and Green, 1971). The bedrock consists of Precambrian age crystalline igneous and metamorphic rocks. The depth to bedrock is within 50 of land surface. Depth to groundwater is anticipated to be within 10 feet of land surface (bls), based on sites in the immediate vicinity.

3.0 PROJECT RESULTS

3.1 Underground Storage Tank Excavation

The 300 gallon UST was removed on May 7, 2002 (Figure 2). Andrew Delforge, Certified Site Assessor #243858, of REI was on site to observe the removal of the UST. SGS, Inc. of Merrill, WI performed the UST removal activities. The date of UST installation is unknown. The UST was extremely rusty, with observable holes. The soil type consisted of silty clay. The excavation was backfilled with clean sand. Photographs of the UST and site are included in Appendix D.

3.2 Vent and Supply Line Excavation

The fill pipe and dispenser were located directly above the UST. No additional piping was present, therefore, no piping or dispenser samples were collected.

3.3 Chemical Analysis of Soil

One soil sample was collected from the excavation of the UST to determine if contamination was present (S-1). The soil sample collected was placed in a 2 ounce laboratory prepared jar, packed on ice, and relinquished to EnChem of Green Bay, WI where it was analyzed for Gasoline Range Organics (GRO).

4.0 Results and Conclusions

The analytical results from the samples collected during the UST excavation have not revealed levels of contamination above the NR 720 RCL of 100 mg/kg for GRO, or above the 10 mg/kg standard which is the requirement to conduct a site assessment. No further investigation is necessary. The analytical report may be found in Appendix B.

5.0 Standard of Care

Evaluations derived from field sampling and laboratory analyses are considered accurate only at the specific locations sampled for each phase of this environmental assessment. No warranty is implied or intended.

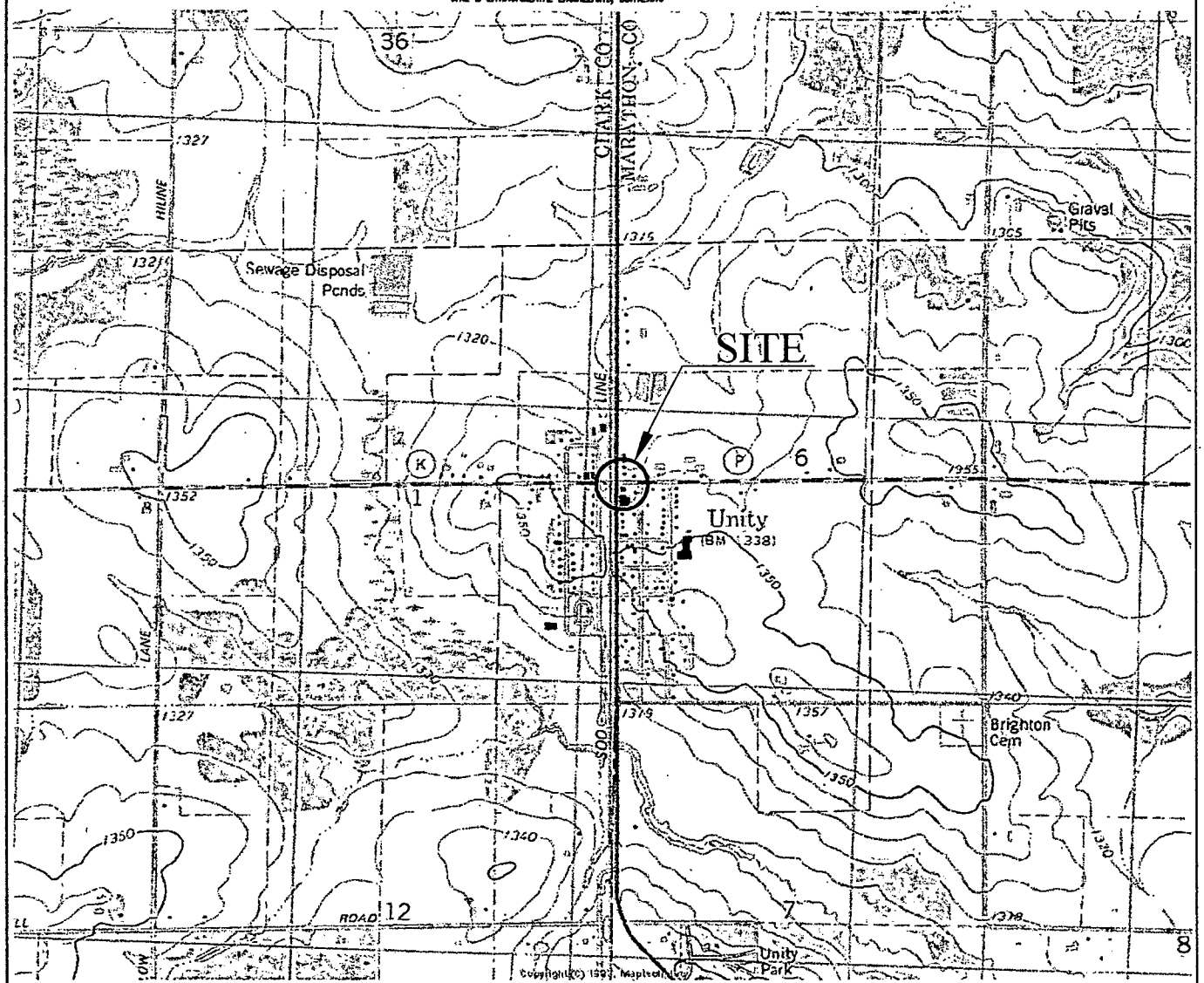
6.0 References

Devaul, R.W., and J.H. Green, 1971. *Water Resources of Wisconsin-Central Wisconsin River Basin.* Hydrologic Investigation Atlas HA-367, United States Geological Survey, Washington, D.C.

This report was prepared by:

Andrew R. Delforge
Site Assessor
Certification #243858

REI
CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING



SCALE 1:24 000

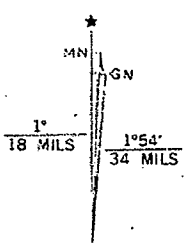
1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

QUADRANGLE LOCATION



UTM GRID AND 1981 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

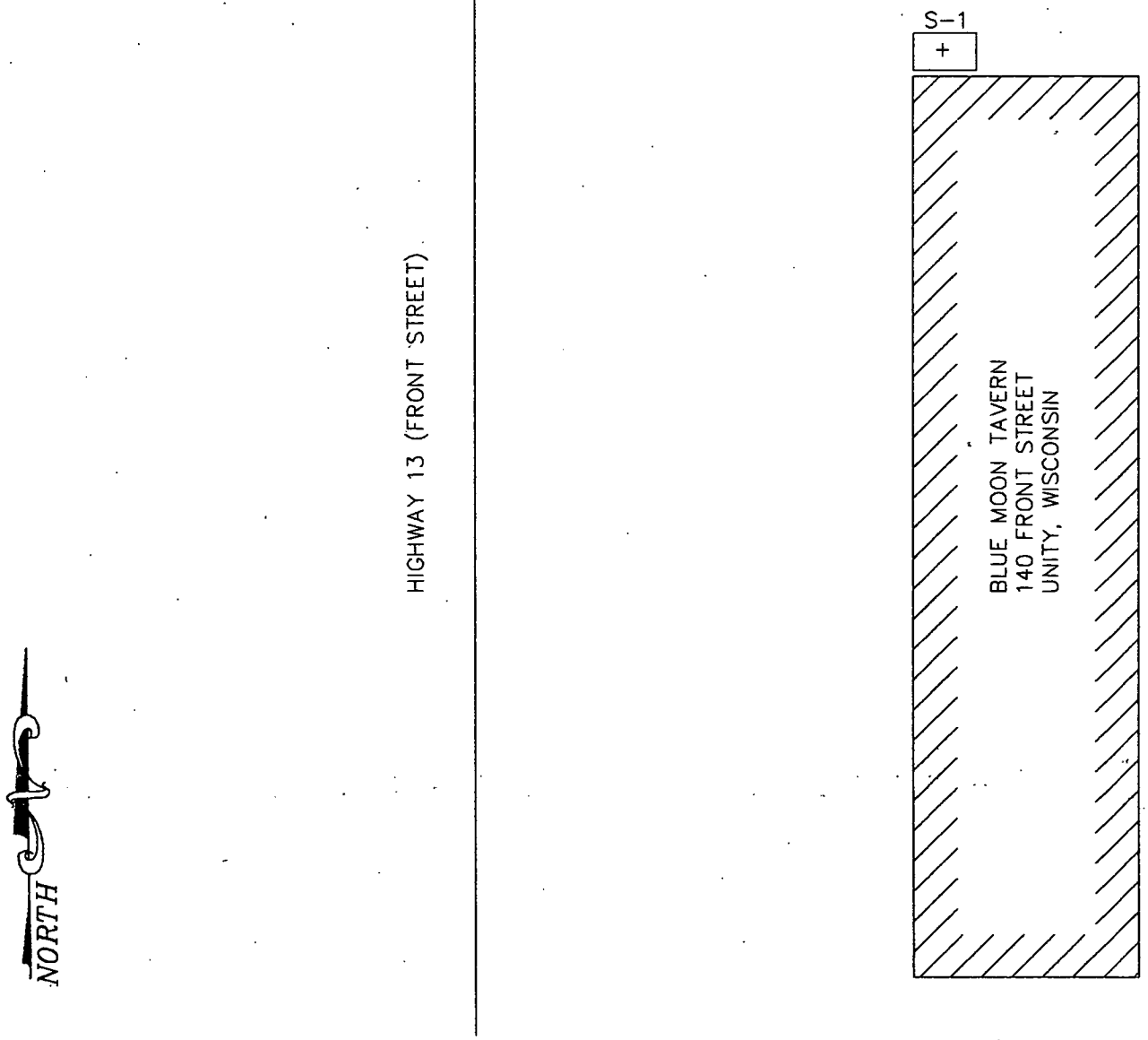
SPENCER NORTH, WIS.
SE/4 ABBOTSFORD 15' QUADRANGLE
N4445–W9015/7.5

1981

J:\DRAFTING\2461BLUE\2461VICIN.dwg

BLUE MOON TAVERN 140 FRONT STREET UNITY, WISCONSIN	FIGURE 1 : SITE VICINITY MAP		
	PROJECT NO. 2461	DRAWN BY: TJR	DATE: 5/31/02

REI
CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING



LEGEND

0 20

SCALE: 1" = 20'

– FORMER 300 GALLON GASOLINE UST

+ – SOIL SAMPLE LOCATION

SAMPLE	DEPTH (FEET)	USCS	PID (I.U.s)	GRO (mg/kg)
S-1	5	CL	NR	<3.2

J:\DRAFTING\2461BLUE\2461SITE.dwg

BULE MOON TAVERN
140 FRONT STREET
UNITY, WISCONSIN

FIGURE 2 : SITE MAP

PROJECT NO.	DRAWN BY:	DATE:
2461	TJR	5/31/02

APPENDIX A

METHODS AND PROCEDURES

A.1 SAMPLE COLLECTION AND CHAIN OF CUSTODY

Soil samples were collected from the excavation and placed into the proper in 2 ounce prepared laboratory glass jars. Upon completion of a sample, a chain of custody log was initiated. The Chain of Custody record included the following information: project work order number, shipped by, shipped to, sampling point, number of containers, type of analysis, sample(s), signature(s), etc. As few people as possible handled the samples.

A.2 ANALYTICAL PROCEDURES

Gasoline Range Organics (DRO) results were determined using the Modified GRO method.

Corporate Office & Laboratory
1241 Bellevue Street
Green Bay, WI 54302
920-469-2436 • Fax: 920-469-8827
800-7-ENCHEM

ENCHEM INC.

Madison Office & Laboratory
525 Science Drive
Madison, WI 53711
608-232-3300 • Fax: 608-233-0502
888-5-ENCHEM

- Analytical Report -

Project Name : SGS-BLUE MOON TAVERN

Project Number : 2461

Client: REI

WI DNR LAB ID : 405132750

Sample No.	Field ID	Collection Date	Sample No.	Field ID	Collection Date
822346-001	S-1	5/7/2002			

Please visit our Internet homepage at: www.enchem.com

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 comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. Reported results shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested.

Approval Signature

05/13/02
Date

En Chem, Inc. Cooler Receipt Log

Batch No. 822346

Project Name or ID SGS - BLUEMOON TAVERN No. of Coolers: 1 Temps: RUT

A. Receipt Phase: Date cooler was opened: 5/8/02 **By:** GD

1: Were samples received on ice? (Must be ≤ 6 C)	YES	NO[2]	
2. Was there a Temperature Blank?	YES	NO	
3: Were custody seals present and intact? (Record on COC)	YES	NO	
4: Are COC documents present?	YES	NO[2]	
5: Does this Project require quick turn around analysis?	YES	NO	
6: Is there any sub-work?	YES	NO	
7: Are there any short hold time tests?	YES	NO	
8: Are any samples nearing expiration of hold-time? (Within 2 days)	YES[1]	NO	Contacted by/Who
9: Do any samples need to be Filtered or Preserved in the lab?	YES[1]	NO	Contacted by/Who

B. Check-in Phase: Date samples were Checked-in: 5/8/02 **By:** GD

1: Were all sample containers listed on the COC received and intact?	YES	NO[2]	NA
2: Sign the COC as received by En Chem. Completed	YES	NO	
3: Do sample labels match the COC?	YES	NO[2]	
4: Check sample pH of preserved samples. (Not VOCs) Completed	YES	NO	NA
5: Do samples have correct chemical preservation?	YES	NO[2]	NA
6: Are dissolved parameters field filtered?	YES	NO[2]	NA
7: Are sample volumes adequate for tests requested?	YES	NO[2]	
8: Are VOC samples free of bubbles >6mm	YES	NO[2]	NA
9: Enter samples into logbook. Completed	YES	NO	
10: Place laboratory sample number on all containers and COC. Completed	YES	NO	
11: Complete Laboratory Tracking Sheet (LTS). Completed	YES	NO	NA
12: Start Nonconformance form.	YES	NO	NA
13: Initiate Subcontracting procedure. Completed	YES	NO	NA
14: Check laboratory sample number on all containers and COC.	YES	NO	NA

Short Hold-time tests:

48 Hours or less	7 days	Footnotes
Coliform (6 hrs)	Flashpoint	1 Notify proper lab group immediately.
Hexavalent Chromium (24 Hrs)	TSS	2 Complete nonconformance memo.
BOD	Total Solids	
Nitrite or Nitrate	TDS	
Low Level Mercury	Sulfide	
Ortho Phosphorus	Free Liquids	
Turbidity	Total Volatile Solids	
Surfactants	Aqueous Extractable Organics- ALL	
Sulfite	Unpreserved VOC's	
En Core Preservation	Ash	
Color		

Rev. 9/5/2001, Attachment to 1-REC-5.
Subject to QA Audit.

Reviewed by/date WS 5/9/02

p:/everyone/forms/samplereceiving/crl.doc

En Chem Inc.

Green Bay, WI 54302
920-469-2436
800-7-ENCHEM
Fax: 920-469-8827

- Analytical Report -

Project Name : SGS-BLUE MOON TAVERN

Project Number : 2461

Client : REI

Field ID : S-1

Report Date : 5/10/2002

Lab Sample Number : 822346-001

Collection Date : 5/7/2002

WI DNR LAB ID : 405132750

Matrix Type : SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	78.8				%		5/8/2002	SM 2540G M	SM 2540G M	keg

Organic Results

GASOLINE RANGE ORGANICS - SOIL/METHANOL Prep Method: Wi MOD GRO Prep Date: 5/9/2002 Analyst: SMT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Gasoline Range Organics	< 3.2			3.2	mg/kg		5/9/2002	Wi MOD GRO
Blank Spike	101			1.00	%Recov		5/9/2002	Wi MOD GRO
Blank Spike Duplicate	100			1.00	%Recov		5/9/2002	Wi MOD GRO
Blank	< 2.5			2.5	mg/kg		5/9/2002	Wi MOD GRO

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

(Please Print Legibly)
Company Name: REI
Branch or Location: Wausau
Project Contact: Andy DeKemper
Telephone: 715-675-9784
Project Number: Z461
Project Name: SGS - Blue Moon Tavern
Project State: WI
Sampled By (Print): Andy DeKemper

EN CHEM INC.
1241 Bellevue St., Suite 9
Green Bay, WI 54302
920-469-2436
FAX 920-469-8827

525 Science Drive
Madison, WI 53711
608-232-3300
FAX: 608-233-0502

CHAIN OF CUSTODY

70325

Page 1 of 1
P.O. # _____ Quote # _____
Mail Report To: A. D.
Company: REI
Address: 4080 N. 20th Ave
Wausau, WI
Invoice To: REI
Company:
Address:
Mail Invoice To: REI

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=EnCore F=Methanol G=NaOH
H = Sodium Bisulfate Solution I = Other

FILTERED? (YES/NO): N
PRESERVATION (CODE)*: E

Data Package Options
(please circle if requested)
Results Only
EnChem Level III (Subject to Surcharge)
EnChem Level IV (Subject to Surcharge)

Regulatory Program: UST, RCRA, SDWA, NPDES, CERCLA

Matrix Codes: W=Water, S=Soil, A=Air, C=Charcoal, B=Biota, SI=Sludge

LABORATORY ID (Lab Use Only)	FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	ANALYSES REQUESTED: Cl							TOTAL # OF BOTTLES SENT	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
001	S-1	5/7/02	11:50	Soil	D							1	1-250ml 1-500g	
														No Head Space 5/8/02

Rush Turnaround Time Requested (TAT) - Prelim
(Rush TAT subject to approval/surcharge)
Date Needed: _____
Transmit Prelim Rush Results by (circle):
Phone Fax E-Mail
Phone #: _____
Fax #: _____
E-Mail Address: _____

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	5/7/02 -720		
UPS		[signature]	5/8/02 1020

En Chem Project No.: 82346
Sample Receipt Temp.: 0.6
Sample Receipt pH (Wet/Metals): N/A
Cooler Custody Seal: Present / Not Present
Intact / Not Intact

Geiss Incorporated

SGS Tank Removal
715-539-2803
715-539-2661 Fax

T&J Electric
715-539-3809
715-536-7103 Fax

Geiss Meat Service
715-536-5283
www.sausagelover.com

Little Florida
Countryside Community
715-536-5283

CERTIFICATE OF UNDERGROUND STORAGE TANK DISPOSAL

On May 7th, 2002, SGS Tank Removal performed the removal of 1 Underground Storage Tank(s) (1-300 gallon leaded gas Tank) at:

Blue Moon Tavern
Shirley Reigel
140 Front Street
Unity, WI 54488.

There was no sludge generated from this UST removal.

SGS a division of Geiss, Inc., disposed of the tanks at:

Schulz's Recycling
W6059 Heldt Road, Merrill WI 54452, 715-536-7141
On May 10th, 2002

Jay Schlueter Project Manager

SGS Tank Removal, W4490 Pope Road, Merrill, WI 54452
Telephone (715) 539-2803, Fax (715) 539-2661

g Obj #: 267647

UNDERGROUND
FLAMMABLE/COMBUSTIBLE LIQUID STORAGE TANK INVENTORY

Information Required By Section 101.142, Wis. Stats.

Send Completed Form To:
Department of Commerce
Bureau of Storage Tank Regulation
P.O. Box 7837
Madison, WI 53707-7837

erground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered. A separate n is needed for each tank. Send each completed form to the agency designated in the top right corner. Have you previously stered this tank by submitting a form? ☒ Yes ☐ No If yes, are you correcting/updating information only? ☒ Yes ☐ No

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

is registration applies to a tank that is (check one):
In Use ☒ Closed - Tank Removed ☐ Ownership Change (Indicate
Newly Installed ☐ Closed - Filled with Inert Materials new owner name in block 2)
Abandoned with Product ☐ Temporary Out of Service - Provide Date: _____
Abandoned without Product (empty) ☐ Abandon with Water

Fire Department providing fire coverage where tank is located:
☐ City ☐ Village #1012
☐ Town of Unity Vol FD

IDENTIFICATION (Please Print)

1. Tank Site Name: Blue Moon Tavern
Site Address: 140 Front St
Site Telephone Number: (715) 223-2191
☐ City ☒ Village ☐ Town of: Unity
State: WI Zip Code: 54488 County: Marathon

2. Tank Owner Name: Blue Moon Tavern
Mailing Address: 140 Front St
Telephone Number: (715) 223-2191
☐ City ☒ Village ☐ Town of: Unity
State: WI Zip Code: 54488 County: Marathon

3. Previous Name: Reigels Bar
Previous site address if different than #1: Same

Site ID #: Facility ID #: Customer ID #:

4. Tank Age (age or date installed): Unknown
5. Tank Capacity (gallons): 300

LAND OWNER TYPE (check one)
County ☐ Federal Leased ☐ Federal Owned ☐ Municipal ☐ Other Government
Private ☐ State ☐ Tribal Nation

OCCUPANCY TYPE (check one)
Gas/Retail Sales ☐ Bulk Storage ☐ Utility ☒ Mercantile/Commercial ☐ Industrial ☐ School ~~☐ Residential~~
Agricultural ☐ Backup or Emergency Generator ☐ Other (Specify:)

Tank Construction:
Bare Steel ☐ Coated Steel ☐ Unknown
Fiberglass ☐ Steel – Fiberglass Reinforced Plastic Composite
Lined (Date): ☐ Other (specify):

Cathodic Protection
☐ Sacrificial Anodes
☐ Impressed Current
☒ N/A

Overfill Protection? ☐ Yes ☒ No
Spill Containment? ☐ Yes ☒ No
Tank Double Walled? ☐ Yes ☒ No

Primary Tank leak detection method:
Inventory control and tightness testing
Manual tank gauging (only for tanks of 1,000 gallons or less)
☐ Automatic tank gauging
☐ Interstitial monitoring
☐ Statistical Inventory Reconciliation (SIR)
☐ Groundwater monitoring
☐ Vapor monitoring
☒ Unknown

Piping Construction:
Bare Steel ☐ Coated Steel ☐ Unknown
Fiberglass ☐ Flexible ☐ N/A
Other (specify)

Cathodic Protection
☐ Sacrificial Anodes
☐ Impressed Current
☐ N/A

Pipe Double Walled? ☐ Yes ☒ No

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

Piping Leak Detection Method: (used if pressurized or check valve at tank): ☐ SIR ☐ Tightness testing ☐ Electronic line leak monitor
Groundwater monitoring ☐ Vapor monitoring ☐ Interstitial monitoring ☐ Not required ☒ Unknown

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

TANK CONTENTS (Current, or previous product if tank now empty)
Diesel ☒ Leaded ☐ Unleaded ☐ Fuel Oil ☐ Gasohol
Other (Specify): _____ ☐ Empty ☐ Sand/Gravel/Slurry* ☐ Unknown* ☐ Premix
Waste/Used Motor Oil ☐ Chemical _____ ☐ Kerosene ☐ Aviation ☐ Hazardous Waste*
(Indicate chemical name and number)

chosen, this tank is NOT PECFA eligible.
Geo Latitude: Geo Longitude:

If Tank Closed, Abandoned or Out of Service, give date
o/day/yr): 5-7-02

Has a site assessment been completed (see reverse side for details)
☒ Yes ☐ No

ner or Operator Name (please print): Shirley Reigel
Indicate whether: ☒ Owner or ☐ Operator

ner or Operator Signature: Shirley Reigel
Date Signed: 5-7-02

e: Refer to comments on reverse side of form.

7437 (R. 04/98)

Complete one form for each site closure.

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

CHECKLIST FOR TANK CLOSURE

CHECK ONE: ☒ UNDERGROUND ☐ ABOVEGROUND

FOR PORTIONS OF THE FORM THAT DO NOT APPLY, CHECK THE N/A BOX BELOW

RETURN COMPLETED CHECKLIST TO:
Wisconsin Department of Commerce
ERS Division
Bureau of Storage Tank Regulation
P.O. Box 7837
Madison, WI 53707-7837

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

1. Site Name: Blue Moon Tavern	2. Owner Name: Blue Moon Tavern
Site Street Address (not P.O. Box): 140 FRONT ST	Owner Street Address: 140 Front St
☐ City ☒ Village ☐ Town of: Unity	☐ City ☒ Village ☐ Town of: Unity; State: WI; Zip Code: 5448
State: WI; Zip Code: 54488; County: Marathon	County: Marathon; Telephone No. (include area code): (715) 223-2191
3. Closure Company Name (print): SGS a division of Geiss Inc	Closure Company Street Address: W4490 Pope Rd
osure Company Telephone No. (include area code): 715) 539-2803	Closure Company City, State, Zip Code: Merrill WI 54452
4. Name of Company Performing Closure Assessment: REI	Assessment Company Street Address, City, State, Zip Code: 930 N. 20th Ave, Wausau WI 54401
elephone No. (include area code): (715) 675-9784	Certified Assessor Name (print): Andrew Dehaan; Assessor Signature: [signature]; Assessor Certification No.: 243858

Tank ID #	Closure	Temp. Closure	Closure in Place	Tank Capacity	Contents*	Closure Assessment
267647	☒	☐	☐	300	Lead	☒ Y ☐ N
2.	☐	☐	☐			☐ Y ☐ N
	☐	☐	☐			☐ Y ☐ N
4.	☐	☐	☐			☐ Y ☐ N

* Indicate which product: Diesel; Leaded; Unleaded; Fuel Oil; Gasohol; Aviation Fuel; Kerosene; Premix; Waste/Used Motor Oil; Flammable/Combustible Hazardous Waste; Chemical (indicate the chemical name(s) _____ and CAS number(s) _____ _____ _____; Other _____.

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

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

	Remover Verified	Inspector Verified	NA
B. TEMPORARILY OUT OF SERVICE			
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	☐	☐
. 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. ..	☐ Y ☐ N	☐	☐
NOTE: DROP TUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH THE USE OF AN EDUCTOR.			
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 from site.	☐ Y ☐ N	☐	☐

- CONTINUE ON NEXT PAGE -

CLOSURE BY REMOVAL (continued)

	Remover Verified		Inspector Verified	NA
1. 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.				
2. Tank vent hole (1/8" in uppermost part of tank) installed prior to moving the tank from site.	☑ Y	☐ N	☐	☐
3. Form ERS-7437 or ERS-8731 filed by owner with the Dept. of Commerce indicating closure by removal.	☑ Y	☐ N	☒	☐
4. Site security is provided while the excavation is open.	☑ Y	☐ N	☐	☐

CLOSURE IN PLACE

NOTE: CLOSURES IN PLACE ARE ONLY ALLOWED WITH THE PRIOR WRITTEN APPROVAL OF THE DEPARTMENT OF COMMERCE OR LOCAL AGENT.

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.	☐ 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 the Department of Commerce indicating closure in place.	☐ Y	☐ N	☐	☐

CLOSURE ASSESSMENTS

NOTE: DETERMINE IF A CLOSURE ASSESSMENT IS REQUIRED BY REFERRING TO COMM 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

METHOD OF ACHIEVING 10% LEVEL DESCRIPTION

☐ Eductor 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.

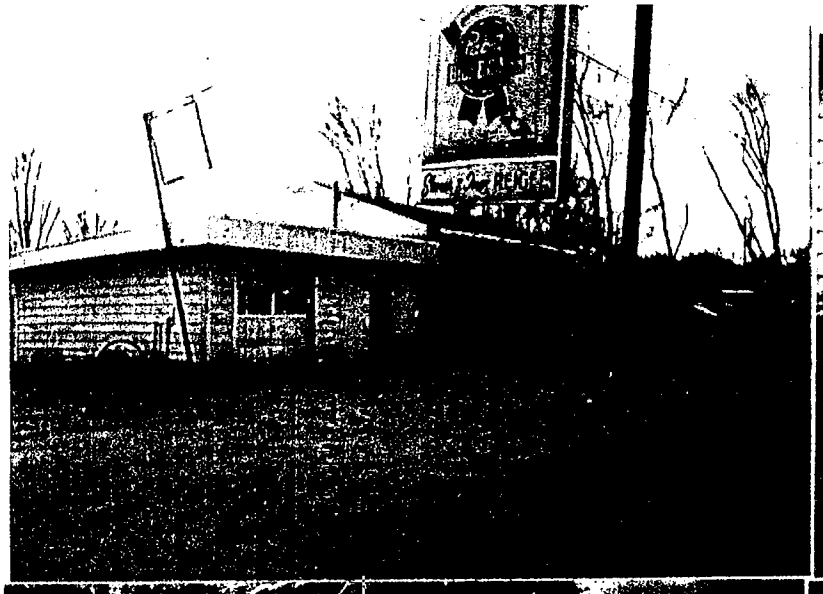
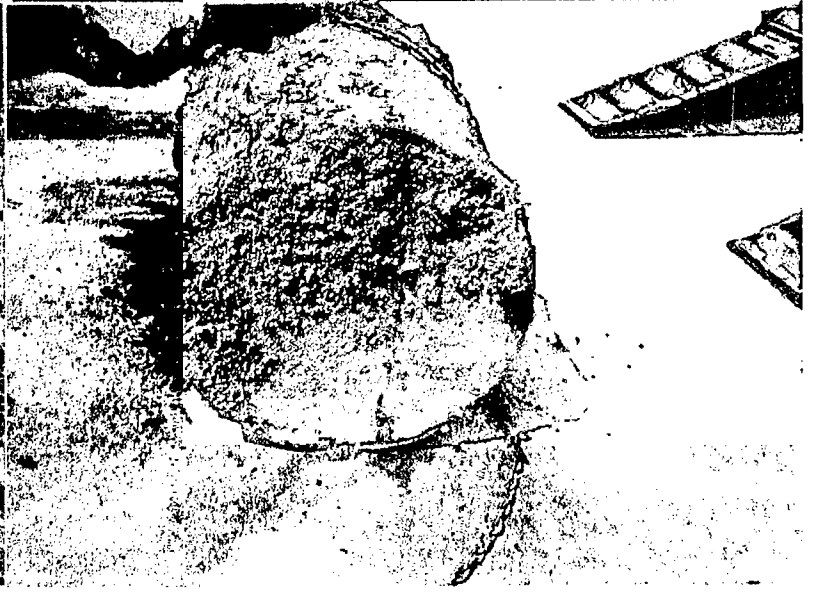
NOTE SPECIFIC PROBLEMS OR NONCOMPLIANCE ISSUES BELOW

REMOVER/CLEANER INFORMATION

Remover Name (print)	Remover Signature	Remover Certification No.	Date Signed
George Finch	George Finch	4/2191	5/24/02

INSPECTOR INFORMATION

Inspector Name (print)	Inspector Signature	Inspector Certification No.
Ruth A Getten	Ruth A Getten	35214

ID # For Location Where Inspection Performed	Inspector Telephone Number	Date Signed
1012	715 833-7671	5/24/02

* INVENTORY FORM ERS-7437 or ERS-8731 SIGNED BY THE OWNER MUST BE SUBMITTED WITH EACH CLOSURE