

### PHASE I TANK CLOSURE ASSESSMENT

BOB'S SERVICE 10531 State Road 70 Falun, WI 54872

September 30, 1993

Prepared by

Cooper Engineering Company, Inc. 310 West South Street Rice Lake, WI 54868

Telephone (715) 234-7008 Facsimile (715) 234-1025

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- D. ASTM Soil Classification
- E. Tank Disposal Documentation
- F. Checklist for Underground Tank Closure (SBD-8951)

#### Phase I Tank Closure Assessment Bob's Service

#### INTRODUCTION

Cooper Engineering Company, Inc., was retained by Oachs Construction, Inc., Grantsburg, Wisconsin, to perform a Phase I tank closure site assessment at property known as Bob's Service and located in Falun, Wisconsin (as indicated on Figure 1). A discussion of the field work and analytical results developed during the Phase I portion of this investigation is presented in the following narrative.

#### SUMMARY

On July 16, 19, and 20, 1993, two underground storage tanks (UST) were removed at Bob's Service, 10531 State Road 70, Falun, Wisconsin. On site to perform the removal was Oachs Construction, Inc. Both underground storage tanks were exposed and floating above grade due to the high groundwater (see Figure 2A). Both tanks were found upside down and had released gasoline into the water-filled depression. Excavating began with rolling over the tanks to expose the tops. The two tanks were excavated and cleaned on site by Oachs Construction. Select soil and water samples were collected and transported to a laboratory for analysis (see Figure 3). Both tanks appeared in very good condition. Groundwater was standing in the excavation up to two feet below grade (see Appendix B - Photographs).

#### BACKGROUND INFORMATION

The following information has been collected about the underground storage tanks removed at Bob's Service, Falun, Wisconsin. No other tanks were previously removed. Also, information obtained shows no records of tightness tests nor any reported spills or repairs at the site.

Tank Owner: Mr. Bob Anderson 10531 State Road 70

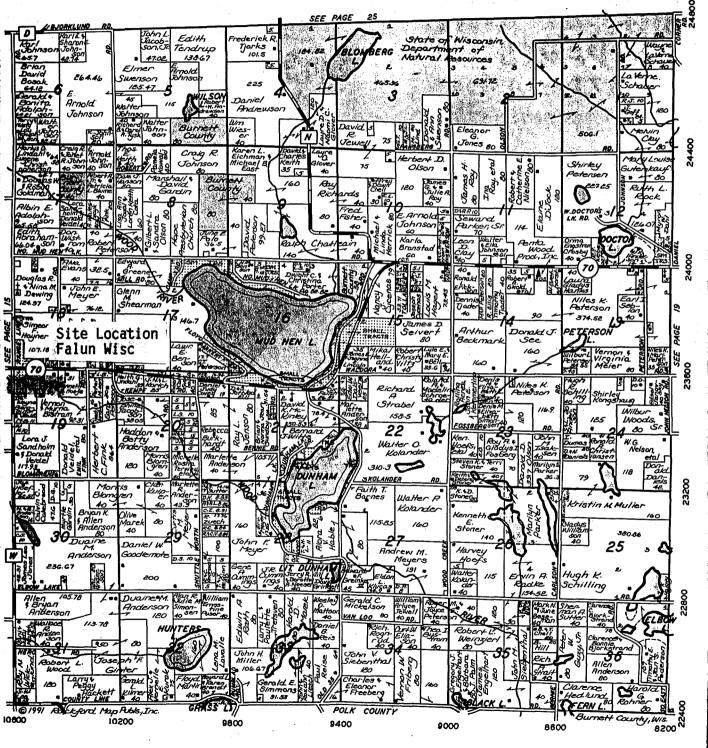
Falun, WI 54872

Contact Person: Mr. Bob Anderson

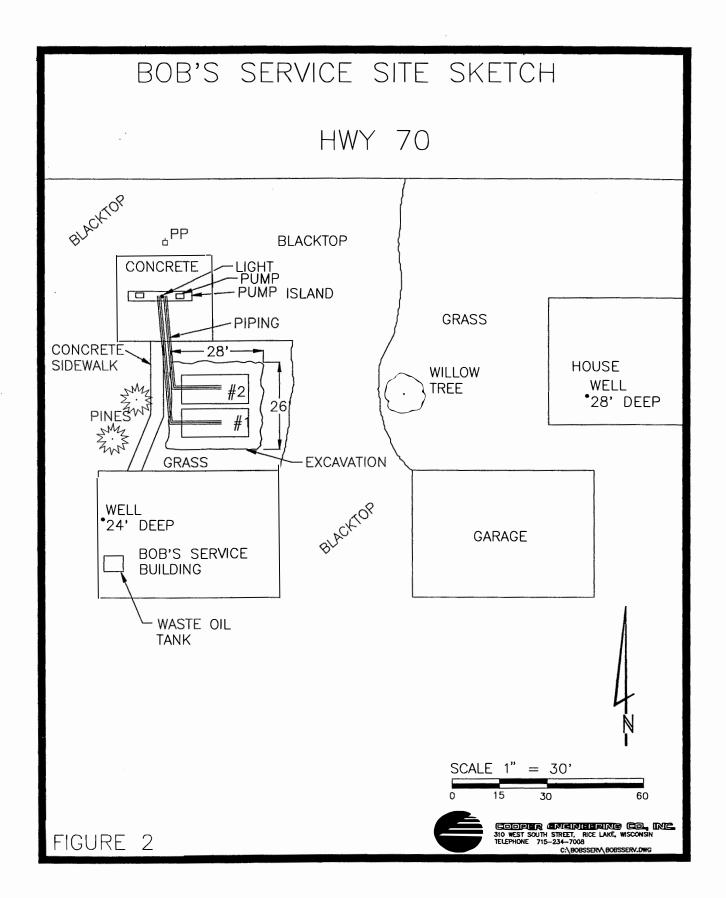
10531 State Road 70 Falun, WI 54872 Phone (715) 689-2445

## **DANIELS**

T.38N.-R.17W.



FIGURE



## TANK SECTION

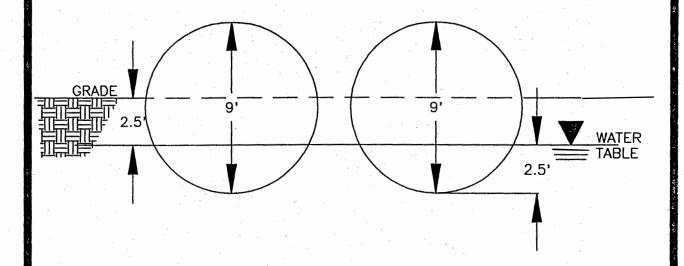
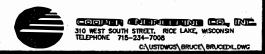
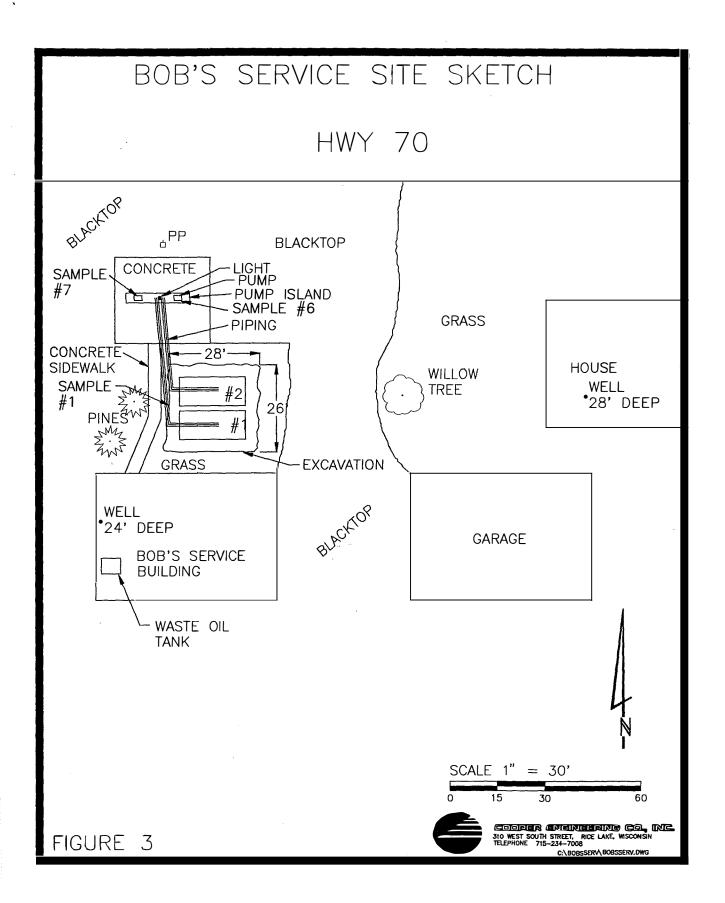


FIGURE 2A





Tank Information Tank 1 Tank 2

10,000 10,000 Tank size (gallons) unleaded gasoline regular gasoline Product stored coated steel coated steel Construction bare steel bare steel Piping 18/unknown 18/unknown Age/installer 7/4/93 Tanks last used 7/4/93 mid 70s, partly cloudy, July 16, 1993 Weather conditions N 1/2 NW 1/4, Section 19, T38N, R17W Site location

#### SITE

One 2,000 gallon above ground waste oil tank remains on this site. The site is located north of Bob's Service shop (refer to Bob's Service site sketch, Figure 2). The site is used for a service garage. Past property use included a creamery during the 1930s.

On site for removal

Pat Mahowald Cooper Engineering Co., Inc., SA#00850 Cary Oachs Construction, Inc., RC#03926 Owner, Bob's Service Chippewa Fire District

#### EXCAVATION AND TANK DISPOSAL

Oachs Construction performed the removal and tank cleaning. The tank disposal documentation is provided in Appendix E of this report.

#### OBSERVATIONS AND RESULTS

On July 16, 1993, Oachs Construction excavated two 10,000 gallon USTs. Both tanks contained gasoline. The pump island was located 30 feet north of the underground storage tanks. The pump island area was covered with concrete which is in place today. Both tanks were exposed due to high groundwater and the piping was broken and exposed. Tank 1 was inerted using dry ice. A diffused air blower was used to purge Tank 2.

Once the tanks were safe, they were cut open to remove the excess product and sludge that had been left in the tanks. The amount of water removed from the USTs was approximately 1,000 gallons, along with approximately 30 gallons of scale and sludge. The gasoline/water mixture was a result of product released when the groundwater rose, forcing the tanks out of the ground and breaking the piping. The mixed gasoline and water will be stored on site until proper disposal arrangements are made. Sludge was also containerized and stored on site.

As Tanks 1 and 2 (gasoline) were lifted out of the area, a strong odor of gasoline was observed. Visual observations, staining and strong odor indicated the presence of contamination.

Soil samples were collected from below the pump island. A water sample was collected at 2.5 feet below grade from the groundwater in the area of the removed USTs for laboratory analysis.

The area around the tanks was backfilled with sand at the time the tanks were placed in 1975. The native soil in this area is CL inorganic clays of low to medium plasticity, lean clay.

#### SOIL SAMPLING PROCEDURES

Soil samples at Bob's Service were collected using a disposable syringe with the end cut off. Each syringe was used at only one sampling location.

Samples collected were placed in 60 ml vials provided by the laboratory. Approximately 25 ml of methanol was then added to each soil sample as a preservative. Two methanol preserved samples and one dry weight sample were obtained from each sampling location.

Laboratory samples were submitted with chain of custody documentation to SERCO Laboratories, 1931 West County Road C2, St. Paul, MN 55113, for GRO (gasoline range organics) analysis. The laboratory is certified (#999446690) and uses Wisconsin Department of Natural Resources approved methods for GRO analysis.

#### CONCLUSIONS AND RECOMMENDATIONS

#### Conclusions

Evaluation of available data indicates the presence of on-site water and soil contamination below Tank 1 and 2. The extent of this suspected contamination is currently unknown.

TABLE 1
TABLE OF SAMPLE RESULTS

Soil Sample Number	Sample Location	Sample Depth (ft)	Soil Type	Date Collected	Time Collected	Sample Odor?	Analysis Performed	GRO Results	
#1	water in excavation	2.5	n/a	7/16/93	12:48 pm	strong	GRO	300,000 ppb	
<b>‡</b> 6	west pump	3	silty sand	7/16/93	3:00 pm	none	GRO	ND	
<b>‡</b> 7	east pump	3	silty sand	7/16/93	3:10 pm	none	GRO	13 ppm	
#1A	water drum on site	n/a	N/A	7/19/93	1:00 am	yes	GRO/PVOC*	78,000 ppb	
	N/A = Not Analyzed or Not Applicable ND = Not detected ppm = Parts per million ppb = Parts per billion								

<sup>\*</sup> PVOC results are shown in Appendix A.

#### Recommendations

Performance of a Phase II Site Investigation in accordance with State of Wisconsin Department of Natural Resources guidelines is recommended for the subject site to determine the lateral and vertical extent of suspected contamination. Typically the scope of a Phase II investigation includes the following:

- 1) Performance of test pits and/or borings and collection of subsurface samples for laboratory analysis.
- 2) Installation of groundwater monitoring wells and water sampling.
- 3) Assessment of potential spill pathways.
- 4) Identification of potential contaminant receptors.
- 5) Preliminary evaluation of appropriate remediation options (as required).

#### STANDARD OF CARE

This report has been specifically prepared for Bob's Service with specific application to a Phase I Tank Closure Assessment for property known as Bob's Service located at 10531 State Highway 70, Falun, WI 54872. This document has been prepared in accordance with the care and skill generally exercised by reputable professionals, under similar circumstances, in this or similar localities. No other warranty, either expressed or implied, is made as to the professional advice presented herein.

#### REPORT PREPARATION

I Mahrual d

This report has been developed by Cooper Engineering Company, Inc., and was prepared and reviewed by the following:

Pat Mahowald

DILHR Certified Site Assessor, #00850

Brace Markgren, P.E.

Bruce Mantzu

Vice President of Environmental Services

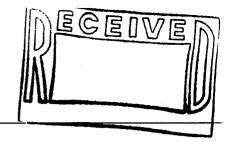
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# Appendix A Laboratory Results and Chain of Custody



## **SERCO Laboratories**



1931 West County Road C2. St. Paul. Minnesota 55113 Phone (612) 636-7173 FAX (612) 636-7178

LABORATORY ANALYSIS REPORT NO: 32569 07/30/93

PAGE 1 of 2

Cooper Engineering 310 W. South Street Rice Lake, WI 54868 DATE COLLECTED: 07/16/93
DATE RECEIVED: 07/17/93
COLLECTED BY: CLIENT
DELIVERED BY: CLIENT

SAMPLE TYPE :

SOIL WATER

Attn: Bob Anderson

CLIENT'S ID: Bob Service, Falun, WI

SERCO SAMPLE NO:	88683	88693	88703	88713
SAMPLE DESCRIPTION: ANALYSIS:	#1 Water Removed	Pump 3' Below	#7 East Pump 3' Below Grade	Trip
Gasoline Range Organics, C6-C10, ug/L Analytical Method for MOD GRO Date of Analysis for MOD GRO Gasoline Range Organics, C6-C10, dry weight, mg/kg		MOD GRO 07/26/93 <10		
Total Solids, percent	_	85.1	81.7	
SERCO SAMPLE NO:	88723	88733	88743	
SAMPLE DESCRIPTION: ANALYSIS:	Detect Limits Not Dry Weight			*
Gasoline Range Organics, C6-C10, dry weight, mg/kg Gasoline Range Organics, C6-C10, ug/L	10 -	100	78920	

<sup>&</sup>lt; means "not detected at this level". 1 mg = 1000 ug.





## **SERCO Laboratories**

1931 West County Road C2. St. Paul. Minnesota 55113 Phone (612) 636-7173 FAX (612) 636-7178

LABORATORY ANALYSIS REPORT NO: 32569 07/30/93

PAGE 2 of 2

All analyses were performed using EPA or other accepted methodologies. Samples that may be of an environmentally hazardous nature may be returned to you. Other samples will be stored for 30 days from the date of this report, then disposed of by SERCO Laboratories. Please contact me if other arrangements are needed. This report may not be reproduced, except in its entirety, without prior written approval from SERCO Laboratories.

Report submitted by,

Diane J. Anderson Project Manager



## CHAIN OF CUSTODY RECORD LUST PROGRAM

Form 4400-151

11-91

Note: This for	m is required	l by the De	partmen	t of Nati	ral Resource	s for leaking underground storage		mpliance with cl	1. NR 500-540, Ì	VR 158 and	NR 419. Wi	s. Adm. Cod	<b>L</b>
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<sup>1</sup> Specify gro	oundwater, s	surface water	r. soil.	leachate	sludge, etc.								
_					_	e sampling location.			*				
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## **SERCO Laboratories**

1931 West County Road C2. St. Paul. Minnesota 55113 Phone (612) 636-7173 FAX (612) 636-7178

LABORATORY ANALYSIS REPORT NO: 32593

PAGE 1 of 2

07/23/93

Cooper Engineering 310 W. South Street Rice Lake, WI 54868

DATE COLLECTED: 07/19/93 DATE RECEIVED: 07/20/93 COLLECTED BY : CLIENT

DELIVERED BY : CLIENT SAMPLE TYPE : WATER

Attn: Pat Mahowald

CLIENT'S ID: Bob's Service Falun

SERCO SAMPLE NO:	89313	89323	89333
SAMPLE DESCRIPTION: ANALYSIS:	Sample #2 Drum Water		Para-
Benzene, ug/L Ethylbenzene, ug/L Methyl tertiary butyl ether, ug/L	25000 2300 <100 A		78124 78113
Toluene, ug/L 1,2,4-Trimethylbenzene, ug/L	31000 1600	1.0 0.2	78131 77222
1,3,5-Trimethylbenzene, ug/L (Mesitylene)	360	0.3	77226
Total Xylene, ug/L	11000	1.0	81551
Analytical Method for PVOC's	8020	_	-
Date of Analysis for PVOC's	07/21/93	_	_
Gasoline Range Organics, C6-C10, ug/L	78000	100	78920
Analytical Method for MOD GRO	MOD GRO		-
Date of Analysis for MOD GRO	07/21/93	_	-
Notes regarding MOD-GRO analysis	В	-	_

A: Increased detection limits due to sample matrix. B: Unidentified peaks present after C10.

< means "not detected at this level". 1 mg = 1000 ug.







## SERCO Laboratories

1931 West County Road C2. St. Paul. Minnesota 55113 Phone (612) 636-7173 FAX (612) 636-7178

LABORATORY ANALYSIS REPORT NO: 32503 07/23/93

ING 2 of 2

All analyses were performed using EPA or other accepted methodologies. Samples that may be of an environmentally hazardous nature may be returned to you. Other samples will be stored for 30 days from the date of this report, then disposed of by SERCO Laboratories. Please contact me if other arrangements are needed. This report may not be reproduced, except in its entirety, without prior written approval from SERCO Laboratories.

Report submitted by,

Diane J. Anderson Project Manager



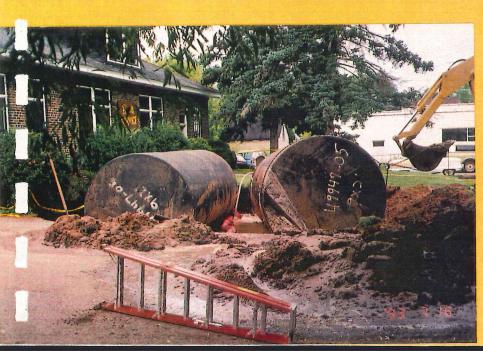
onsin. State of Department of Natural Resources CHAIN OF CUSTODY RECORD LUST PROGRAM Form 4400-151 11-91

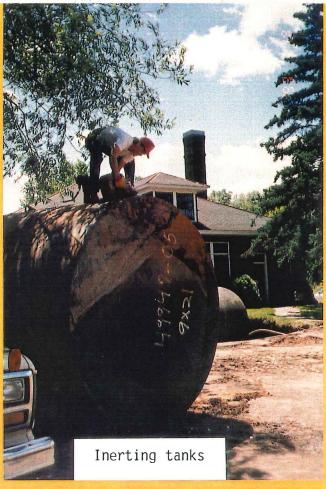
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<sup>2</sup> Sample descr	ription mus	st clearly co	orrelate	the sam	ple ID to the	sampling location.							
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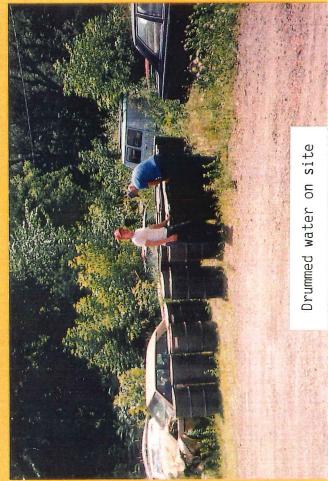
Appendix B
Site Photographs











# Appendix C Tank Inventory Forms (SBD-7437)

Wisconsin Department of Industry, Labor and Human Relations

For Office Use Only:

CRD.7427/D 12/041

# UNDERGROUND PETROLEUM RRODUCT TANK NEWENTORY

Information Required By Sec. 102.142, Wis. Stats.

Send Completed Form To: Safety & Buildings Division P.O. Box 7969 Madison, WI 53707 Telephone (608) 267-5280

ı	Tank ID #	mormationKequite	ed by Sec. 102.142, t	<b>Te</b>	lephone (608) 267-5280
	Underground tanks in Wisconsin that Please see the reverse side for addition with at least 10 percent of its total volume each tank. Send each completed for this tank by submitting a form?	onal information on this p plume (included piping) lo m to the agency designat	rogram. An undergo cated below ground ed in the top right c	ground storage tai d level. A separat orner. Have you	nk is defined as any tank e form is needed for previously registered
	2. Abandoned With Product 6.	. 🔼 Closed - Tank Removed 1 . 🔲 Closed - Filled With	(Indicate new own	ip   Where Tank Loca	Providing Fire Coverage sted:
	<ul><li>3.  Abandoned No Product (empty)</li><li>or With Water</li><li>7</li></ul>	Inert Material	below) te:		
•	A. IDENTIFICATION: (Please Print)  1. Tank Site Name  Rob's Service	Site Addr	ess 531 STATE RO	OF da	Site Telephone No.
•	□ City	, 🔲 Town of:	State Wiscopsins	Zip Code 54812	County Buryse H
,•	2. Owner Name (mail sent here unless indica	ated otherwise in #3 below)		(mail sent here unless	indicated otherwise in #3)
-	□ City N-Village トロレン	☐ Town of:	State Wiscowsin	Zip Code S4877	County
	3. Alternate Mailing Name If Different Than	n #2	Alternate Mailing Stree		
-	☐ City ☐ Village	☐ Town of:	State	Zip Code	County
-	4. Tank Age (date installed, if known: or year	ars old)   5. Tank Capacity (gall	ons)   6. Tank Manufac	turer's Name (if know	n)
-	B. Ty PE OF USER (check one):  1. [X] Gas Station	Bulk Storage Government Other (specify):	3. Utility 7. School	4. (	☐ Mercantile ☐ Residential
	3. 🔁 Coated Steel 4. 🔲 (	Cathodically Protected and Coa Fiberglass Steel - Fiberglass Reinforced Pla	<b>5</b> (	Other (specify):	pressed Current)
		Other:		Is Tank Dou	
•	Overfill Protection Provided?				nment? Yes No  4. Inventory control and tanks of 1,000 gallons or less)
_	D. PIPING CONSTRUCTION 1. 1 B Bare Steel 2. □ Cathodically Protect 4. □ Fiberglass 5. □ Other (specify): □	cted and Coated or Wrapped Ste	el ( A. 🔲 Sacrificial Anoc	les or B. 🗌 Impressed	Current) 3.  Coated Steel 9. Unknown
•	Piping System Type: 1.  Pressurized piping	with: A. 🗌 auto shutoff; B. 🔲 a		ictor 2. 🗌 Suction p	oiping with check valve at tank
	Piping leak detection method: used if pressurize	zed or check valve at tank: 1.		2.	nitoring
		3. 🗆 Other:		Double Walled:	☐Yes 🕅 No
	E. TANK CONTENTS  1.		3. 🕅 Unleaded 7. 🗀 Empty 11. 🗆 Waste Oil 14. 🗀 Kerosene	8. 12.	☐ Fuel Oil ☐ Sand/Gravel/Slurry ☐ Propane ☐ Aviation
	* If # 13 is checked, indicate the chemical nar	me(s) or number(s) of the chemi	cal or waste.		
	If Tank Closed, Give Date (mo/day/yr): 기パリマろ		Has a site assessment be	een completed? (see r	everse side for details)
ſ	If installation of a new tank is being reported,	indicate who performed the ins			
	1. Fire Department 2.  Name of Owner or Operator (please print):	DILHR	3. Other (identify)	cate Whether:	
١	Mr Robert Roderson	<b>\</b>	l mon	Owner or	☐ Operator
***************************************	Signature of Owner or Operator:	<del> </del>	Date	e Signed:	
- 1	i e e e e e e e e e e e e e e e e e e e		ı		

IMPORTANT. Complete se many items on this form as noccible. Enflure to provide sufficient

Wisconsin Department of Industry, Labor and Human Relations

Send Completed Form To: Safety & Buildings Division P.O. Box 7969 Madison, WI 53707

railing to men ide sufficient

For Office Use Only: Tank ID #	Information Required By Sec. 102.142, Wis. Stats.  Madison, WI 53707 Telephone (608) 267-5280						
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 (included 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							
This registration applies to a tank that is (check		D. Channel Owner		ent Providing Fire Coverage			
	Closed - Tank Removed □ Closed - Filled With	6. Changed Owner		.ocated:			
3. Abandoned No Product (empty)	Inert Material	below)					
or With Water 7.	☐ Out of Service - Provide Da	ate:	_				
A. IDENTIFICATION: (Please Print)							
1. Tank Site Name Bob's Service	Site Add	ress 531 STATE	25 Am	Site Telephone No. (715) 689- 2445			
C C	, Drown of:	State	Zip Code	County			
2. Owner Name (mail sent here unless indicate	ted otherwise in #3 halow)	Owner Mailing Addre	54872	ess indicated otherwise in #3)			
- Kobort Anderson	ted offierwise III #3 Delow/		TATE Hwy	70			
☐ City	☐ Town of:	State	Zip Code	County			
3. Alternate Mailing Name If Different Than	#2	Alternate Mailing Str	reet Address If Differe	nt From #2			
☐ City ☐ Village	☐ Town of:	State	Zip Code	County			
4. Tank Age (date installed, if known: or year	rs old) 5. Tank Capacity (gal		facturer's Name (if kr とへいいん	own)			
5. 🗌 Industrial 6. 🗍 6	ulk Storage Government Other (specify):	3. Utility 7. School		4. Mercantile 8. Residential			
3. N. Coated Steel 4.  Fe 6. Relined - Date 7. S	athodically Protected and Coaiberglass teel - Fiberglass Reinforced Pla  Other:	S. [	Other (specify): Unknown				
1. ☐ Bare Steel 2. ☐ C 3. ☑ Coated Steel 4. ☐ F 6. ☐ Relined - Date 7. ☐ S  Approval: 1. ☐ Nat'l Std. 2. ☐ UL 3.	iberglass teel - Fiberglass Reinforced Pla	stic Composite 9.	Other (specify): Unknown Is Tank I Spill Cor	Double Walled?			
1. ☐ Bare Steel 2. ☐ C 3. ☑ Coated Steel 4. ☐ F 6. ☐ Relined - Date 7. ☐ S  Approval: 1. ☐ Nat'l Std. 2. ☐ UL 3.	iberglass teel - Fiberglass Reinforced Pla □ Other: □ If yes, identify type: ctank gauging 2. □ Vapo	sstic Composite 9.	Other (specify): Unknown Is Tank ( Spill Cor	Double Walled? ☐ Yes 💆 No 💡			
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1. Bare Steel 2. Coated Steel 3. Coated Steel 6. Relined - Date 7. S  Approval: 1. Nat'l Std. 2. UL 3.  Overfill Protection Provided? Yes Noted Steel 1. Automatic Steel 2. Coathodical Steel 3. Suction piping with Piping leak detection method: 1. Automatic Steel 3. Suction piping with Piping leak detection method: used if pressurized piping with Piping leak detection met	iberglass teel - Fiberglass Reinforced Pla Other: Other: Ctank gauging 2. Vapoing 6. Not required at protect and Coated or Wrapped States. With: A. autoshutoff; B. check valve at pump and inspected or check valve at tank: 1.	sstic Composite 9.  r monitoring 3.  esent 7. Manua eel (A. Sacrificial Ar alarm; or C. flow re	Other (specify): Unknown Is Tank (Spill Core Groundwater monitoral Tank Gauging (only	Double Walled?			
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1.	iberglass teel - Fiberglass Reinforced Plate	sstic Composite 5.   sstic Composite 9.   r monitoring 3.   esent 7.   Manua eel (A.   Sacrificial Ar alarm; or C.   flow re ectable   Vapor monitoring   Line Leak Detector  3.   Unleaded   7.   Empty   11.   Waste Oil   14.   Kerosene   ical or waste.	Other (specify): Unknown  Is Tank [Is Tank I Spill Core	Double Walled?			
1. Bare Steel 2. Coated Steel 3. Coated Steel 6. Relined - Date 7. S  Approval: 1. Nat'l Std. 2. UL 3.  Overfill Protection Provided? Yes Noted Steel 1. Automatic Steel Steel Steel Steel 2. Cathodically Protect Steel	iberglass teel - Fiberglass Reinforced Plate	sstic Composite 5.  sstic Composite 9.  r monitoring 3.  esent 7. Manua eel (A. Sacrificial Ar alarm; or C. flow re ectable Vapor monitoring Line Leak Detector  3. Unleaded 7. Empty 11. Waste Oil 14. Kerosene ical or waste.  Has a site assessment	Other (specify): Is Tank Is Spill Corgroundwater monitoral Tank Gauging (only nodes or B Impresent	Double Walled?   Yes No natainment?   Yes No natainment   Yes			
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1.	iberglass teel - Fiberglass Reinforced Plate   Other:     Other:     If yes, identify type:     ctank gauging	sstic Composite 9.  r monitoring 3.  essent 7. Manua eel (A. Sacrificial Ar alarm; or C. flow re ectable Vapor monitoring Line Leak Detector  3. Unleaded 7. Empty 11. Waste Oil 14. Kerosene ical or waste.  Has a site assessment stallation inspection: 3. Other (ident)	Other (specify): Is Tank (	Double Walled?   Yes No natainment?   Yes No natainment   Yes			

## Appendix D ASTM Soil Classification

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•	S.	

· .	Major Divis	tions	Group Symbols,	Typical Names		Classification Criteria
	of n seve	G Comments	GW	Well-graded gravels and gravel-sand mixtures, little or no fines	s of percentage of fines eve GW, GP, SW, SP sleve GW, GC, SM, SC Borderline classification requiring use of dual symbols	$C_{\rm M} = D_{80}/D_{10}$ Greater than 4 $C_{\rm X} = \frac{(D_{30})^2}{D_{10} \times D_{80}}$ Between 1 and 3
00 sleve	Gravels 50% or mote of course fraction retained on No. 4 sieve	საგ	GP	Poorly graded gravels and gravel-and mixtures, little or no fines	Se of fines SP, SW, SP SC, SM, SC Alice dell	Not meeting both criteria for GW
Soffe NG:2	50% o	Gravels with Fines	GM	Silty gravels, gravel-sand silt mixtures	GW, C GW, C GM, C Borde	Atterberg limits plot below "A" line or plasticity index less than 4 in harched area are borderline classifications
rained ined br	Ē	g <u>ş</u> <u>r</u>	GC	Clayey gravels, gravel-sand- clay mixtures	is of parties.	Atterberg limits plot above "A" line and plasticity index greater than 7 symbols
Coerse Grained Solis* More than 50% retained on NG: 200 slove*	٥ و ج	Sands	sw	Well-graded sands and gravelly sands, little or no fines	Clessification on basis of percentage Less than 5% pers No. 200 sieve GW, GP, More than 12% pers No. 200 sieve GM, GC, 5% to 12% pers No. 200 sieve Borderik 5% to 12% pers No. 200 sieve requiring use	$C_u = D_{80}/D_{10}$ Greater than 6 $C_z = \frac{(D_{30})^2}{D_{10} \times D_{80}}$ Between 1 and 3
at the	Sands More then 50% of coerse frection pesses No. 4 sieve	ប៊ី <i>ធី</i>	SP	Poorly graded sands and gravelly sands, little or no fines	stification in 12% pass N pass N	Not meeting both criteria for SW
ž	Sar ore the coerse N	Sands With Fines	SM	Silty sands, sand-silt mixtures	· Cle rthan E e than to 12%	Atterberg limits plot below "A" line or plasticity index less than 4 Atterberg limits plotting in histohed area are borderline classifications
	. 2.4	8 ¥ ī	sc	Clayey sands, sand-clay mixtures	255	Atterberg limits plot above "A" line and plasticity index greater than 7 requiring use of dust symbols
•	* = =		ML	inorganic sits, very fine sands, rock flour, slity or clayey fine sands	. 80	PLASTICITY CHART Per election of time-grained
Fine-Grained Solls or more pesses No. 200 sleve*	Silts and Clays Liquid limit 50% or less		CL	inorganic clays of low to medium placticity, gravally clays, sandy clays, slity clays, lean clays	100 eq.	grained stills.  According Limits plotting in benthal one are barefulled clearlingtimes requiring set of dual symbol.  Equation of A direct  Equation of Equation  Equation  Equation of Equation  Equ
peule.	3		OL	Organic silts and organic silty clays of low plasticity	1	
Fine-Grained Solls more pesses No. 20	Silts and Clays Liquid limit greater than 50%		мн	inorpanic sitts, microscus or distornacious fine sands or sitts, elastic sitts	20	<u>€</u>
60% or	Silts and Clays Liquid limit reater than 60%		. СН	Inorganic clays of high plasticity, fat clays	7 4 0	0 10 20 20 40 80 80 70 80 100
	Si J	•	• ОН	Organic clays of medium to high plasticity	,	Liquid Limit
High	ly Organic Soll		PT	Peet, muck, and other highly organic soils	Visual-Manu	al Identification, see ASTM Designation D2488.

<sup>\*</sup>Based on the material passing the 3-in. (75-mm.) sieve.

Appendix E

Tank Disposal Documentation



## Cooper Engineering Company, Inc.

CONSULTING ENGINEER

100 WEST ORCHARD BEACH LANE RICE LAKE, WISCONSIN 54868 TELEPHONE 715-234-7008 FAX 715-234-1025

#### **UST CHAIN OF CUSTODY FORM**

PROJECT NAME Bolis Service	DATE
LOCATION 10531 STATE Huy TO Falus WI	CEC REP NoT MAHOUR
TRANSPORTER'S NAME OACH'S Construction (Trucker)	
LICENSE # 03926	
RELINQUISHED BY BOB ANDERSON (OWNER)	DATE 7/19/93
	TIME
RECEIVED BY Change (Name)	DATE
(Salvage Company Name)	
TANK SIZE 10,000 PRODUCT	Spsoline
CONSTRUCTION Conted Sten	
COMMENTS: Thus was classed and	ent open
00-3140	
	· · · · · · · · · · · · · · · · · · ·



## Cooper Engineering Company, Inc.

CONSULTING ENGINEER

100 WEST ORCHARD BEACH LANE RICE LAKE, WISCONSIN 54868 TELEPHONE 715-234-7008 FAX 715-234-1025

#### **UST CHAIN OF CUSTODY FORM**

PROJECT NAME Bol's Service	
LOCATION 10531 STATE HWY 70 Falus WIT	CEC REP LAT MAHOW
TRANSPORTER'S NAME Tank on-sike (Trucker)	
LICENSE	
RELINQUISHED BY TENS ON- SITE	DATE
RECEIVED BY TANL ON-SITE (Name)	DATE
(Salvage Company Name)	
TANK SIZE 10,000 PRODUCT	Casolina
CONSTRUCTION Coated Steal	
COMMENTS: TRUK OB-Site to be used as a	wood shed.

## Appendix F

Checklist for Underground Tank Closure (SBD-8951)

wisconsin Department of Industry,

Labor and Burnan Relations Complete one form for

## CHECKLIST FOR UNDERGROUND **TANK CLOSURE**

RETURN COMPLETED CHECKUST TO. Safety & Buildings Division Fire Prevention & Underground Storage Tank Section

eac	uvite closute		erini er	SHALLES II.	Hali Profit	outh shinten	$P_{i}(Q_{i} Bo)$	7969, Ma	dison:Wi	3707	
					ure is for: Tank System Tank Only Piping Only   2. Owner Name						
LORS SERVICE					Owner Street Address						
Site Street Address (not P.O. Bax)											
10531 STATE ROOT TO A TOWN OF THE PROPERTY VIEWS					1/05.31 State //cal) 70						
Sire					Siren 84872 54872						
State Zip Code County					County Telephone No. (include area code)						
		1	Som Burnett ()								
3. Closure Company Name (Print) Closure Company Street Address,											
Orchis Contriction 11491 North Shore DA											
Clösu						ompany City: State: Zipi Coder Liberary Francisco - Handard City: State: Zipi Coder Liberary Francisco - Handard City: State: Zipi Coder Liberary Francisco					
	<u>)</u>			215 RURA 54840							
4. Name of Company Performing Closure Assessment Assessment Company Street Address, City, State, Zip Code											
Yolo.	phone # (include area co	MINER		· · · · · · · · · · · · · · · · · · ·							
1	Diene ecocomily a director	Can les	- 4/					ASSESSE CATIFICATION NO.			
- =	· · · · · · · · · · · · · · · · · · ·	1741	Makaul ()								
	"Tank(ID#	Closure"	Temp#Glosure	- Closur	e in Place	e Fank Capacity	"Conter	its: * '  'Clo	sure Asses	sment	
1	<u>:</u>	<u>8</u>				10,000	02		ZZY DN		
)		<b>X</b>			Д	10,000	02		DY IN		
<u> 날.</u>	· · · · · · · · · · · · · · · · · · ·			ļ	Ω						
4.	<u></u>		سبيب- 🗖 نــيــنـــ	<u> </u>	<u> </u>	<u> </u>		<u> </u>	⊡.Y. □ N ¬≈		
j.				ļ					OY ON		
6.	$(x_1, \dots, x_n) \in \mathcal{U}$						1				
Indicate which product by numeric code: 01-Diesel; 02-Leaded; 03-Unleaded; 04-Fuel Oil; 05-Gasohol; 06-Other; 03-Unknown; 10-Premix; 11-Waste oil; 13-Chemical (indicate the chemical name(s) or numbers(s); 14-Kerosene; 15-Aviation.								Premix;			
Written notification was provided to the local agent 15 days in advance of closure date.  All local permits were obtained before beginning closure.  Theck applicable box at right in response to all statements in Sections B - E. *  Remover Verified Verified  Verified											
Written inspector approval of temporary closure obtained, which is effective until (provide date)										ū	
. 1.	Product Removed	and into angle (a		المحمد المحمد المحمد	liaa liawid		_				
	<ul><li>a. Product lines drain</li><li>b. All product remove</li></ul>									岩	
										6	
	2. Fill pipe, gauge pipe, tank truck vapor recovery fittings, and vapor return lines capped										
3. All product lines at the islands or pumps located elsewhere are removed and capped, OR   Y N F											
5. 6.	5. Vent lines left open.									- T	
			, et y 6.000 (c. · ; .					I CAN	Ea	·· (E)	
	LOSURE BY REMO										
	Product from piping of			-							
2. Piping disconnected from tank and removed											
4.	4. All pump motors and suction hoses bonded to tank or otherwise grounded.										
5. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed. DV DN NOTE: DROP TUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH THE USE OF AN EDUCTOR.											
	Vent lines left connec	ted until tanks						OY ON	ď	· <b>B</b>	
	7. Tank openings temporarily plugged so vapors exit through vent										
	8. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section F										
y.	to prevent movement	Excavation aner	ryndind/ineK	inda, piac	. , . ; ' , en nu 1646	ground and block	₹ <b>.</b> ; ,4%	والمنافعة المتحاسات	الرود ال		
10. Tank cleaned before being removed being removed from site											

CLOSURE BY REMOVAL (continued)  11. Tank labeled in 2" high letters after removal but before being moved from site.	Remover Verified 								
NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE;  NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE;  NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE;  NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE;  NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE;  NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE;  NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE;  NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE;  NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE;  NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE;  NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE;  NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE;  NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE;  NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE;  NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE;  NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE;  NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE;  NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE;  NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE;  NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE;  NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE;  NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE;  NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE;  NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE;  NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE;  NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE WARNING AGAINST									
14. Site security is provided while the excavation is open.									
7. 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 (中)中的地域可能的可以可能的是可能的可能的。  「中)中的地域可能的是可能的是可能的是可能的。  「中)中的地域可能的是可能的是可能的是可能的是可能的是一种中心的是一种中心的一种中心的一种中心的一种中心的一种中心的一种中心的一种中心的一种中心的	L L								
<ol> <li>Piping disconnected from tank and removed.</li> <li>All liquid and residue removed from tank using explosion proof pumps or hand pumps.</li> <li>All pump motors and suction hoses bonded to tank or otherwise grounded.</li> <li>Fill pipes, gatige pipes, vapor recovery connections, submersible pumps and other fixtures removed.</li> <li>NOTE: DROP TUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH</li> </ol>									
THE USE OF AN EDUCTOR - EDUCTOR OUTPUT 12 FT ABOVE GRADE.  6. Vent lines left connected until tanks purged.  7. Tank openings temporarily plugged so vapors exit through vent.  8. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section F.  9. Tank properly cleaned to remove all studge and residue.  10. Solid inert material (sand. cyclone boiler stag, pea gravel recommended) introduced and tank fille  11. Vent line disconnected or removed.  12. Inventory form filed by owner with Safety and Buildings Division Indicating closure in place.									
E. CLOSURE ASSESSMENTS  NOTE: DETERMINE IF A CLOSURE ASSESSMENT IS REQUIRED BY REFERRING TO ILHR 1  1. Individual conducting the assessment has a closure assessment plan (written) which is used as the basis for their work on the site.  2. Do points of obvious contamination exist?  3. Are there strong odors in the soils?  4. Was a field screening instrument used to pre-screen soil sample locations?  5. Was a closure assessment omitted because of obvious contamination?  6. Was the DNR notified of suspected or obvious contamination?  Agency, office and person contacted:  7. Contamination suspected because of:  Odor  Soil Staining Free Product Sheen On Grou									
Educator Or Diffused Air Blower  Educator Or Diffused Minimum of 12 feet above ground.  Dry Ice above grounded Air presented									
NOTE SPECIFIC PROBLEMS OR NONCOMPLIANCE ISSUES BELOW									
	•								
	でもいい。 マーンシッチュ Certification No. Date Signe								
Inspector Name (print) Inspector Signature  FDID # For Location Where Inspection Performed  Inspector Telephone Number	Inspector Certification No.  Date Signed								

HALLIE PD