6/30/93

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PHASE I TANK CLOSURE ASSESSMENT
GOVERNMENT CENTER
BURNETT COUNTY HIGHWAY DEPARTMENT
8150 WEST HIGHWAY 70
SIREN, WISCONSIN 54872
OCTOBER 11, 1993

Prepared by

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

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

ES93049-787
Govcntr.rpt\cb

Recd 10/20/93

mfa ovrj 10/2/93

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PHASE I TANK CLOSURE ASSESSMENT
GOVERNMENT CENTER
BURNETT COUNTY
8150 WEST HIGHWAY 70
SIREN, WISCONSIN 54872

INTRODUCTION

Cooper Engineering Company, Inc., was retained by Mr. Roger Peterson of the Burnett County Highway Department to perform a Phase I Site Assessment at the Burnett County Government Center, Highway 35 North, Siren, Wisconsin, as indicated on Figures 1 and 2. A discussion of the field report and analytical results developed during the Phase I portion of this investigation are presented in the following narrative.

SUMMARY

On June 30, 1993, one 10,000 gallon underground storage tank (UST) that had stored fuel oil was excavated and removed from site at the Burnett County Government Center.

The tank excavation was performed by B & D Services-Excavating, (715-234-6222) 1969 Country Aire Drive, Rice Lake, Wisconsin. Bruce Willers of B & D Services Excavating is certified with the State of Wisconsin (certification #02816) as a remover/cleaner. B & D Services performed the cutting open, cleaning, and removal of the tank.

The soil surrounding the tank was excavated and the tank was inerted, cut open, and cleaned while it was still in the excavation.

The tank was removed from the excavation by chaining one end of the tank to the backhoe bucket and lifting the end out of the excavation. Then a skid-steer was chained to that end. After that the backhoe bucket pushed the end of the tank that remained in the excavation while the skid-steer pulled at the other end until the tank was removed.

The tank was chained to a B & D Services Excavating truck and transported to B & D Services Excavating in Rice Lake, Wisconsin. The tank is to be recycled for scrap metal (see Appendix D).

Results from soil samples analyzed show no detectable hydrocarbons from below either end or beneath the center of the tank (<10 parts per million DRO) and no hydrocarbons from below the elbow of the vent stack.

BACKGROUND INFORMATION

The following information has been collected about the UST removed from the Burnett County Government Center property (see Figures 1 and 2).

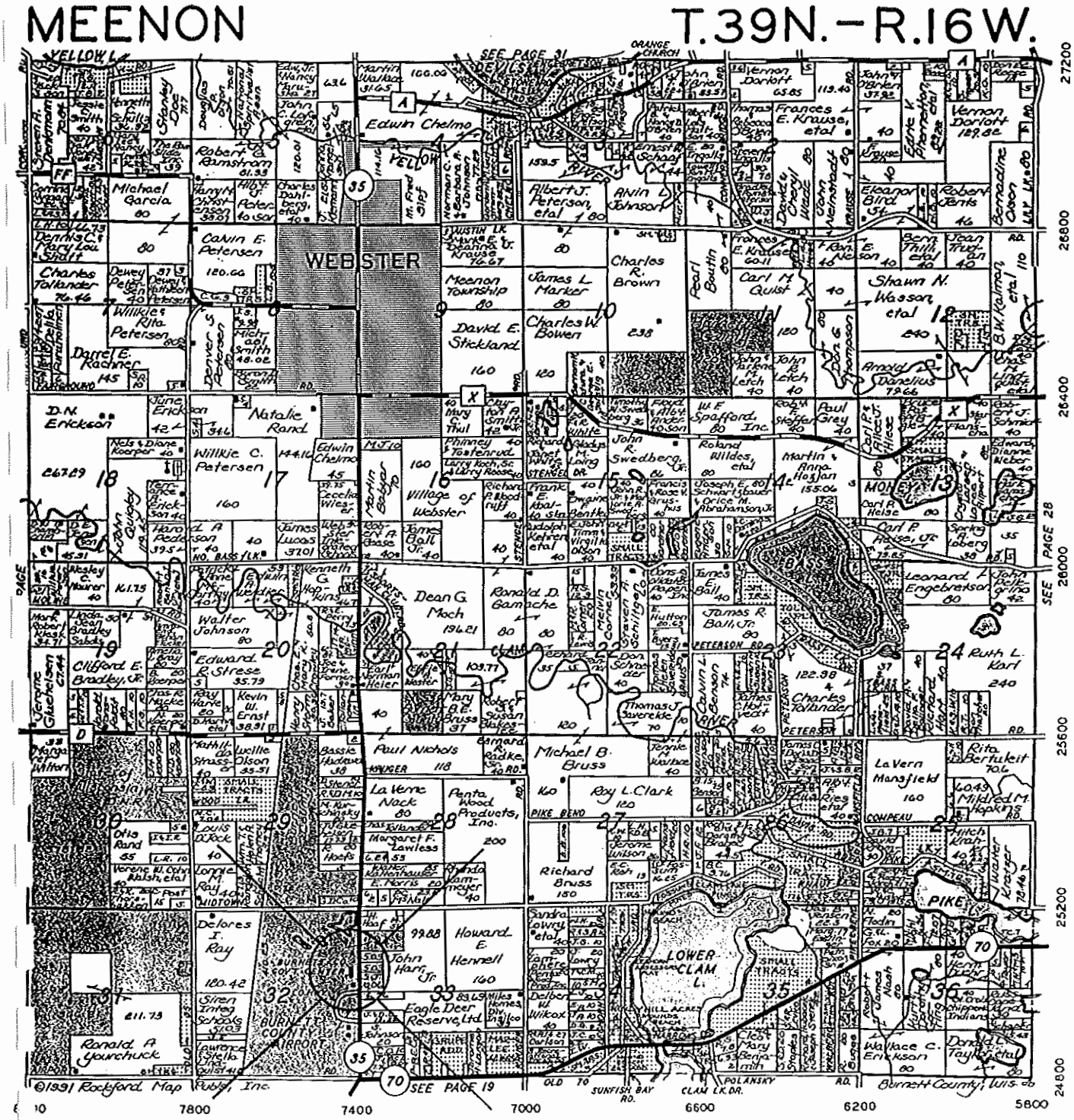


Figure 1 Site Location Map

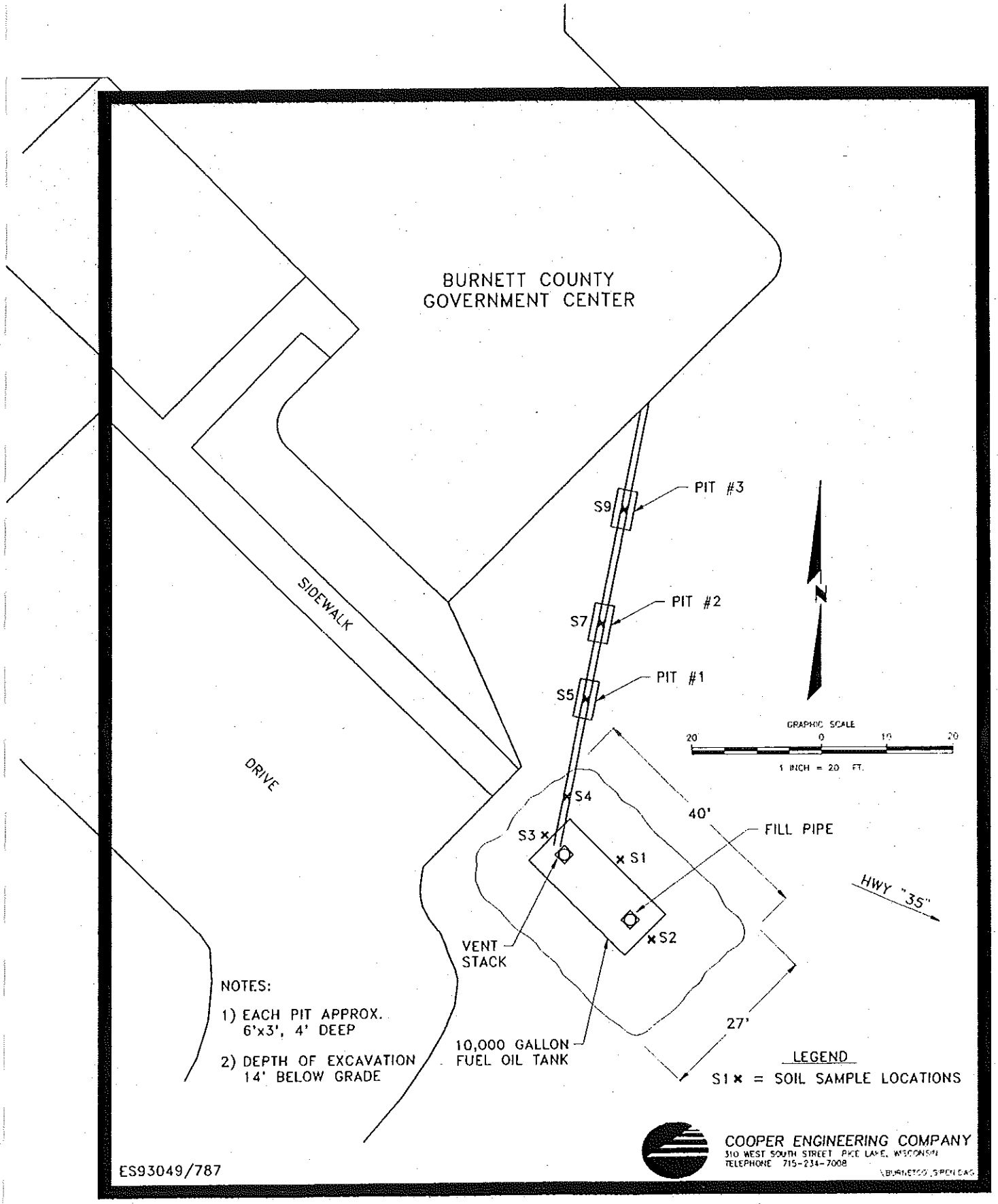


Figure 2 Site Sketch

Tank Owner:	Burnett County 8150 West Highway 70 Siren, WI 54872 (715) 349-2285
Contact Person:	Mr. Roger M. Peterson 8150 West Highway 70 Siren, WI 54872 (715) 349-2285
Site:	Burnett County Government Center Highway 35 North Siren, WI 54872 (715) 349-2181

SPECIFIC TANK CHARACTERISTICS

Characteristics	Tank
Capacity (gallons)	10,000
Contents	fuel oil
Tank Construction	coated steel
Piping Construction	bare steel
Date Installed	October 1984
Installer	Frank Maslow of Don Daniels Const.
Date tank last used	1993

Legal Site Description: SE 1/4 of NE 1/4 Sec. 32, T.39N, R16W, Meenon Twn., Burnett County.

SITE

Information provided about the site shows this property is a county government building. The tank stored fuel oil for the equipment generator at the building.

The excavation site is located at the southeast corner of the building (see Figure 2).

Information provided by the owners and a walk-over of the site suggest no other underground storage tanks remain at this site. The excavated tank had not been repaired or tested for leaks. Available data also shows no other tanks have been removed previously at this site.

Chippewa Valley Fire Protection District representative Jon Foster filled out the Checklist for Underground Storage Tank Closure (see Appendix C) and acted as the neutral third party during the tank removal.

EXCAVATION AND DISPOSAL

The subject tank was abandoned by removal on June 30, 1993, in accordance with State of Wisconsin Department of Natural Resources guidelines. Site photographs documenting the removal are presented in Appendix B.

On June 30, 1993, before the removal began, 167 gallons of fuel oil was pumped from the tank at the Burnett County Government Center to a Burnett County tank truck for use at the Burnett County Highway Department Shop in Siren, Wisconsin.

Prior to the tank being excavated, B & D Services pumped CO2 into the tank to make the atmosphere inside the tank inert. Making the tank inert means the displacement of the atmosphere within the tank by a noncombustible gas (such as CO2) to such an extent that the resulting atmosphere is noncombustible.

Soils at the site were well graded sands, gravelly sands, little or no fines, (USCS classification SW).

Once the tank was exposed and inerted, B & D Services Excavating cut the tank open in the excavation and cleaned it with about 15 gallons of floor dry absorbent material. The contaminated floor dry material was left on site in a DOT approved 55 gallon drum until a licensed waste hauler can pick the material up properly and dispose of it.

Cleaning the tank typically refers to the following procedure:

Once the tank is cut open a remover/cleaner enters the tank. Once inside he spreads on absorbent material (such as floor dry) throughout the tank. The floor dry is then scooped out with a non-sparking device (plastic shovels) and containerized. Thus residues within the tank are absorbed and then removed. The tank is considered clean, and ready for transportation.

The tank was removed from the excavation by lifting one end of the tank out of the excavation with the backhoe, chaining a skid-steer to that end, and then pushing the other end with the backhoe bucket while the skid-steer pulled.

OBSERVATIONS AND RESULTS

The fill and vent pipes were located directly above the 10,000 gallon UST. Approximately 70 lineal feet of product supply pipe ran northwest from the tank to the building. B & D Services Excavating disconnected the piping from the tank and at the building once it was exposed. There did not appear to be any obvious surface staining or stressed vegetation at the site.

The tank and all piping visually appeared to be in good condition.

Total depth of the excavation was 14 feet below grade. Groundwater or freestanding water was not encountered anytime throughout the excavation process.

No headspace analysis was performed at the site for background information. Laboratory analysis results are more conclusive than a Photoionization detector, thus less likely to give a potential false hope to clients.

The 10,000 gallon tank this report refers to and three other tanks that were excavated and removed for the Burnett County Highway Department were either chained to a low-boy trailer or hauled in a dump truck (depending on tank size) and transported to B & D Services Shop in Rice Lake, Wisconsin. The tanks will be recycled as scrap iron (see Appendix D).

Once laboratory samples were collected and the tank was safely secured on site, the excavated soil was pushed back into the excavation. B & D Services also provided clean fill (pit run) to bring the excavation back up to grade.

The site would remain this way at least until the results were returned from samples sent to SERCO Laboratories (WDNR# 999446690).

Weather at the site the day of excavation was overcast with a slight breeze out of the west. It began to sprinkle around 2:15 pm and it was approximately 60°F.

Laboratory analysis from samples collected below the ends and center of the tank show no detectable hydrocarbons (<10 parts per million DRO) . Also no hydrocarbons were detected in samples taken 6 inches below the supply piping.

TABLE 1

Burnett County Government Building Excavation Site Samples

Sample #	Sample Location	Analysis	Date	Total Solids	mg/kg
S1	2' below N. side, center of tank	DRO	6-30-93	96.4	<10
S2	2' below E. end of tank	DRO	6-30-93	92.4	<10
S3	2' below W. end of tank	DRO	6-30-93	94.0	<10
S4	6" under piping at end of sidewalk	DRO	6-30-93	95.4	<10
S5	6" under piping, center of pit 1	DRO	6-30-93	95.0	<10
S7	6" under piping, center of pit 2	DRO	6-30-93	93.2	<10
S9	6" under piping, center of pit 3	DRO	6-30-93	93.2	<10

< means "not detected at this level" mg/kg = parts per million

SOIL SAMPLING PROCEDURES

Soil samples at the Burnett County Government Center site were collected from beneath each end of the tank, from beneath the center of the north side of the tank, and from three test pits that were dug below the product supply pipe (see Figure 2). Each sample was collected using a disposable syringe with the end cut off, which had been weighed prior to the sampling and also while containing a representative sample.

Weighing of the sample syringe and then weighing the syringe with the representative sample, allows the sampler to collect approximately 25 grams of soil needed for each sample with minimal disturbance of the soil.

Samples were carefully placed into 60 ml glass containers, which were pre-weighed and supplied by the laboratory, two per sample location. One "dry weight" sample was also collected at each location.

All samples were field preserved by chilling in a cooler with ice.

Laboratory samples were submitted with chain of custody documentation to SERCO Laboratories, 1931 West County Road C2, St. Paul, MN 55113, for DRO (Diesel Range Organic) analysis. The laboratory is certified and uses Wisconsin Department of Natural Resources approved methods for DRO analysis.

CONCLUSIONS AND RECOMMENDATIONS

Evaluation of available data suggests there is no significant soil contamination associated with the subject tank.

We recommend that this site be granted clean closure status by the Department of Natural Resources.

STANDARD OF CARE

This report has been specifically prepared for Burnett County with specific application to Phase I Underground Storage Tank Closure for property located at Highway 35 North, Siren, Wisconsin. 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 warranty, either expressed or implied, is made as to the professional advice presented herein.

REPORT PREPARATION

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

Robert G. Anderson
State of Wisconsin Certified Site Assessor #03031
Project Manager
715-234-7008

Bruce Markgren, P.E.
Vice President

APPENDICES

APPENDIX A - Laboratory Results and Chain of Custody

APPENDIX B - Site Photographs

APPENDIX C - Tank Inventory Forms SBD-7437 and SBD-8951

APPENDIX D - Tank Disposal Documentation

APPENDIX A

Laboratory Results and Chain of Custody

✓ Below Grade ✱

Number	Sample Location	Depth	Soil Type	Moisture	Date	Time	Odor	Field	Lab	Analysis
S1	2' Below, N. Side, Center of Tank	16'	Sandy/Silt		6-30-93	12:12	No		X	DRO
S2	2' Below East End of Tank	16'	"		"	12:20	No		X	DRO
S3	2' Below West End of Tank	16'	"		"	12:45	No		X	DRO
S4	6" Under Piping @ End of Sidewalk	4'	"		"	1:20	No		X	DRO
S5	6" Under Piping Center of Pit #1	3½'	"		"	1:29	NO		X	DRO
S7	6" Under Piping Center of Pit #2	3'	"		"	1:49	NO		X	DRO
S9	6" Under Piping Center of Pit #3	2½'	"		"	2:11	NO		X	DRO

SERCO Laboratories

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

COPY JUL 21 1993

LABORATORY ANALYSIS REPORT NO: 32316 - PAGE 1 of 2
07/19/93

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

Attn: Bob Anderson

DATE COLLECTED: 06/30/93
DATE RECEIVED: 07/02/93
COLLECTED BY : CLIENT
DELIVERED BY : CLIENT
SAMPLE TYPE : SOIL

CLIENT'S ID: Burnette Co. Govt. Ctr.

SERCO SAMPLE NO:	79993	80003	80013	80023
SAMPLE DESCRIPTION:	S1 Center of tank N. side	S2 2' below E.end of Tank	S3 2' below W.end of tank	S4 6" under piping end sdwk
ANALYSIS:				
Diesel Range Organics C10-C28, dry weight, mg/kg	<10	<10	<10	<10
Analytical Method for MOD DRO	MOD DRO	MOD DRO	MOD DRO	MOD DRO
Date of Extraction for MOD DRO	07/02/93	07/02/93	07/02/93	07/02/93
Date of Analysis for MOD DRO	07/16/93	07/16/93	07/15/93	07/16/93
Total Solids, percent	96.4	92.4	94.0	95.4

SERCO SAMPLE NO:	80033	80043	80053	80063
SAMPLE DESCRIPTION:	S5 6" under piping center#1	S7 6" under piping Center#2	S9 6" under piping Center#3	Detect. Limits Not Dry Weight
ANALYSIS:				
Diesel Range Organics C10-C28, dry weight, mg/kg	<10	<10	<10	10
Analytical Method for MOD DRO	MOD DRO	MOD DRO	MOD DRO	-
Date of Extraction for MOD DRO	07/02/93	07/02/93	07/02/93	-
Date of Analysis for MOD DRO	07/16/93	07/15/93	07/15/93	-
Total Solids, percent	95.0	93.2	93.2	-

Samples received on ice.

< 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

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,

Thomas A. Dini for

Diane J. Anderson
Project Manager

SERCO

State of .consin
Department of Natural Resources

CHAIN OF CUSTODY RECORD
LUST PROGRAM
Form 4400-151 11-91

Note: This form is required by the Department of Natural Resources for leaking underground storage tank sites in compliance with ch. NR 500-540, NR 158 and NR 419, Wis. Adm. Code.

Sample Collector(s)	Title/Work Station/Company	Telephone Number (include area code)
Robert G. Anderson	Project Manager/Cooper Engineering Co. Inc.	715-234-7008
Property Owner	**Property Address**	**Telephone Number (include area code)**
Burnette Co. Highway Dept.	Burnette Co. Govt. Center, Hwy 35, Siren, WI	715 - 349-2285

I hereby certify that I received, properly handled, and disposed of these samples as noted below:

Relinquished By (Signature)	Date/Time	Received By (Signature)
Robert G. Anderson	7-1-93 11:11 am	
Relinquished By (Signature)	Date/Time	Received By (Signature)
Relinquished By (Signature)	Date/Time	Received for Laboratory By (Signature)
	7-2-93 11:50 am	A. Ostvold SERCO

Temperature of temperature blank: Rcvd on ice

If samples were received on ice and there was ice remaining, you may report the temperature as "received on ice". If all of the ice was melted, the temperature of the melt may be substituted for a temperature blank.

Field ID Number	Date Collected	Time Collected	Sample Type[1]	Sample Device	Preserv. Type	Location/Description (see footnote 2)	Analysis Type	Lab ID Number	No./Type of Containers	Sample Condition: Cracked /Broken	Improperly Sealed	Good Condition	Other Comments
S1	6/30/93	12:12	Soil	Syringe	ICE	center of tank/North side / 2' below	DRO		2 glass 1 plastic				
S2	6-30-93	12:20	soil	syringe	ice	2' below east end of tank	DRO		2 glass 1 plastic				
S3	6-30-93	12:45	soil	syringe	ice	2' below west end of tank	DRO		2 glass 1 plastic				
S4	6-30-93	1:20	soil	syringe	ice	6" under piping @ end of sidewalk	DRO		2 glass 1 plastic				
S5	6-30-93	1:29	soil	syringe	ice	6" under piping - center of pit #1	DRO		2 glass 1 plastic				
S7	6-30-93	1:49	soil	syringe	ice	6" under piping center of pit #2	DRO		2 glass 1 plastic				
S9	6-30-93	2:11	soil	syringe	ice	6" under piping center of pit #3	DRO		2 glass 1 plastic				

[1]Specify groundwater, surface water, soil, leachate, sludge, etc.

[2]Sample description must clearly correlate the sample ID to the sampling location.

DEPARTMENT USE/OPTIONAL FOR SOIL SAMPLERS

Disposition of unused portion of sample
Laboratory should:

☐ Dispose ☐ Retain for ____ days

☐ Return ☐ Other

DEPARTMENT USE ONLY

Split samples: Offered? ☐ Yes ☐ No (Check one)

Accepted? ☐ Yes ☐ No (Check one)

Accepted By: _____
Signature

APPENDIX B

Site Photographs

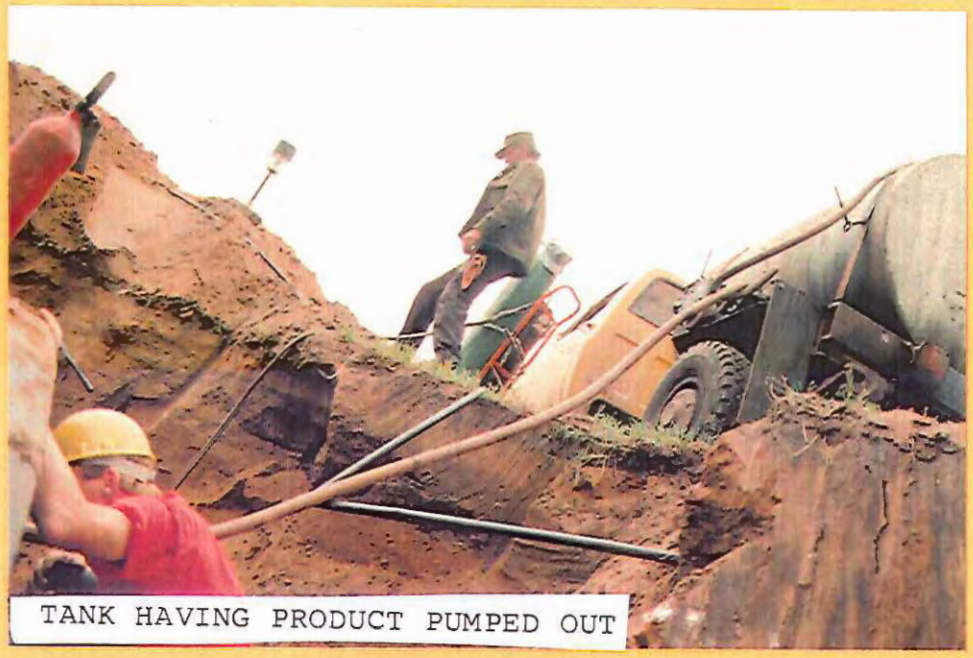
EXCAVATION SITE

TEST PIT EXCAVATION

BEGINNING EXCAVATION

BURNETT CO. HIGHWAY DEPT.
SIREN GOVERNMENT CENTER

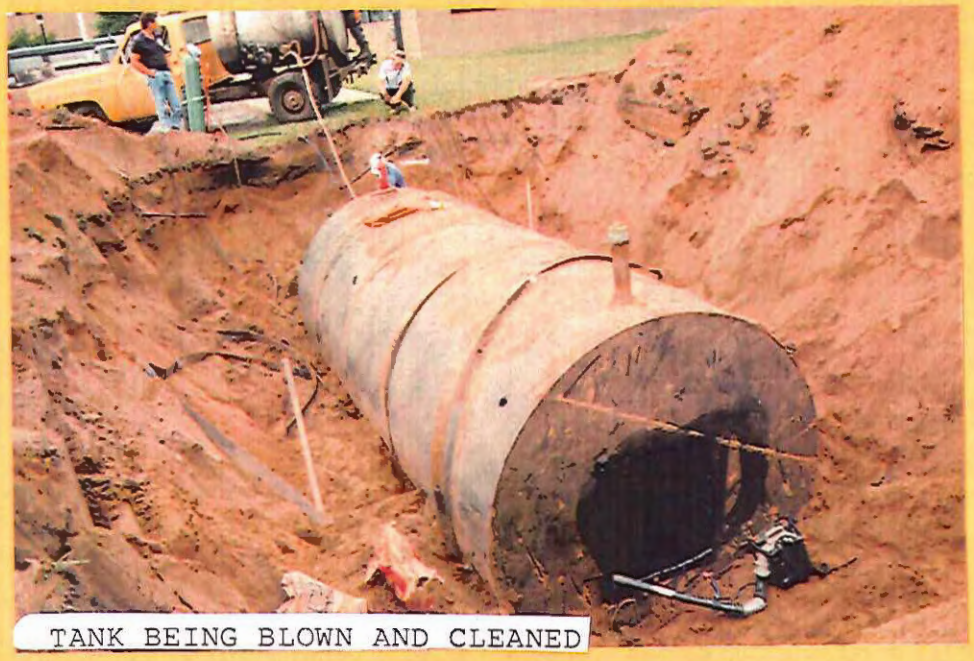
EXPOSING TANK & PIPING



TANK HAVING PRODUCT PUMPED OUT

TANK EXPOSED & BEING CUT OPEN
FOR CLEANING

BURNETT CO. HIGHWAY DEPT.
SIREN GOVERNMENT CENTER



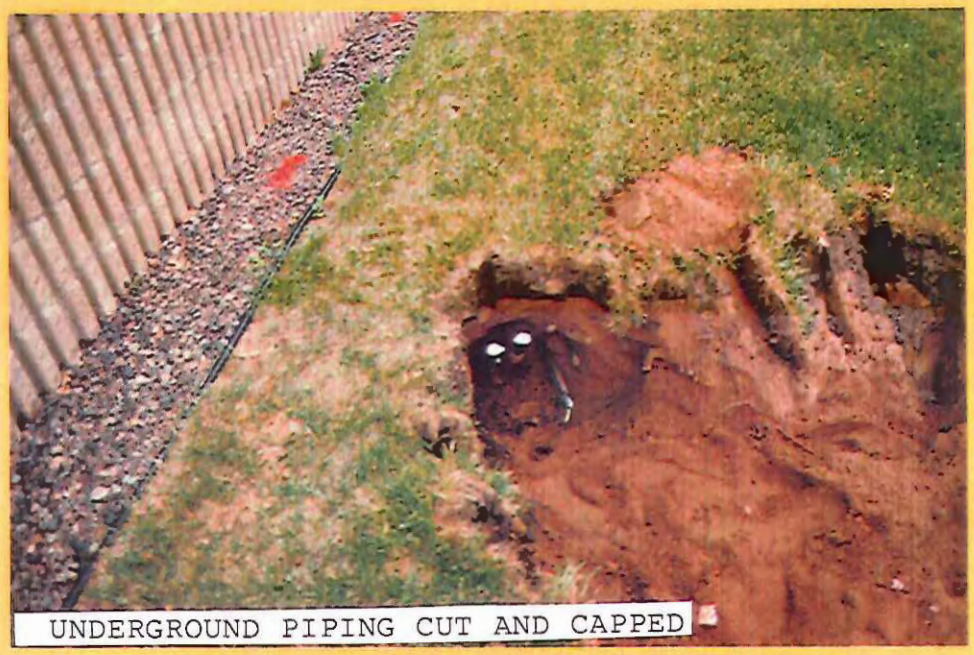
TANK BEING BLOWN AND CLEANED

TANK SET ON SITE

REMOVAL OF TANK FROM EXCAVATION

BURNETT CO. HIGHWAY DEPT.
SIREN GOVERNMENT CENTER

LEVELING EXCAVATION



UNDERGROUND PIPING CUT AND CAPPED

TANK LABELED FOR TRANSPORT

BURNETT CO. HIGHWAY DEPT.
SIREN GOVERNMENT CENTER

APPENDIX C

Tank Inventory Forms SBD-7437 and SBD-8951

Wisconsin Department of Industry, Labor and Human Relations

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Information Required By Sec. 102.142, Wis. Stats.

Send Completed Form To:
Safety & Buildings Divisior
P.O. Box 7969
Madison, WI 53707
Telephone (608) 267-528(

For Office Use Only:
Tank ID #

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? [X] YES [ ] NO If yes, are you correcting/updating information only? [X] Yes [ ] No

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. [X] Closed - Tank Removed
6. [ ] Closed - Filled With Inert Material
7. [ ] Out of Service - Provide Date: _____
8. [ ] Changed Ownership (Indicate new owner below)

Fire Department Providing Fire Coverage Where Tank Located:
Webster Fire Department
Wayne Leef 349-2040

A. IDENTIFICATION: (Please Print)

1. Tank Site Name: Burnett County Government Center
Site Address: Hwy 35 North
Site Telephone No.: (715) 349-2181
[ ] City [X] Village: Siren [ ] Town of:
State: WI Zip Code: 54872 County: Burnett

2. Owner Name (mail sent here unless indicated otherwise in #3 below): Burnett County
Owner Mailing Address (mail sent here unless indicated otherwise in #3): 8150 West Hwy 70
[ ] City [X] Village: Siren [ ] Town of:
State: WI Zip Code: 54872 County: Burnett

3. Alternate Mailing Name If Different Than #2:
Alternate Mailing Street Address If Different From #2:
[ ] City [ ] Village [ ] Town of:
State: Zip Code: County:

4. Tank Age (date installed, if known: or years old): installed 1984
5. Tank Capacity (gallons): 10,000
6. Tank Manufacturer's Name (if known): unknown

B. TYPE OF USER (check one):
1. [ ] Gas Station 2. [ ] Bulk Storage 3. [ ] Utility 4. [ ] Mercantile
5. [ ] Industrial 6. [X] Government 7. [ ] School 8. [ ] Residential
9. [ ] Agricultural 10. [ ] Other (specify): _____

C. TANK CONSTRUCTION:
1. [ ] Bare Steel 2. [ ] Cathodically Protected and Coated Steel (A. [ ] Sacrificial Anodes or B. [ ] Impressed Current)
3. [X] Coated Steel 4. [ ] Fiberglass 5. [ ] Other (specify): _____
6. [ ] Relined - Date _____ 7. [ ] Steel - Fiberglass Reinforced Plastic Composite 9. [ ] Unknown

Approval: 1. [ ] Nat'l Std. 2. [ ] UL 3. [ ] Other:
Is Tank Double Walled? [ ] Yes [X] No
Overfill Protection Provided? [ ] Yes [X] No If yes, identify type:
Spill Containment? [ ] Yes [X] No

Tank leak detection method: 1. [ ] Automatic tank gauging 2. [ ] Vapor monitoring 3. [ ] Groundwater monitoring 4. [ ] Inventory control an tightness testing 5. [ ] Interstitial monitoring 6. [ ] Not required at present 7. [ ] Manual Tank Gauging (only for tanks of 1,000 gallons or less)

D. PIPING CONSTRUCTION
1. [X] Bare Steel 2. [ ] Cathodically Protected and Coated or Wrapped Steel (A. [ ] Sacrificial Anodes or B. [ ] Impressed Current) 3. [ ] Coated Stee
4. [ ] Fiberglass 5. [ ] Other (specify): _____ 9. [ ] Unknown

Piping System Type: 1. [ ] Pressurized piping with: A. [ ] auto shutoff; B. [ ] alarm; or C. [ ] flow restrictor 2. [ ] Suction piping with check valve at tani
3. [ ] Suction piping with check valve at pump and inspectable

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

Approval: 1. [ ] Nat'l Std 2. [ ] UL 3. [ ] Other:
Double Walled: [ ] Yes [X] No

E. TANK CONTENTS
1. [ ] Diesel 2. [ ] Leaded 3. [ ] Unleaded 4. [X] Fuel Oil
5. [ ] Gasohol 6. [ ] Other 7. [ ] Empty 8. [ ] Sand/Gravel/Slurry
9. [ ] Unknown 10. [ ] Premix 11. [ ] Waste Oil 12. [ ] Propane
13. [ ] Chemical * _____ _____ _____ 14. [ ] Kerosene 15. [ ] Aviation

* If # 13 is checked, indicate the chemical name(s) or number(s) of the chemical or waste.

If Tank Closed, Give Date (mo/day/yr): 6/30/93
Has a site assessment been completed? (see reverse side for details) [ ] Yes [X] No in process

If installation of a new tank is being reported, indicate who performed the installation inspection:
1. [ ] Fire Department 2. [ ] DILHR 3. [ ] Other (identify) _____

Name of Owner or Operator (please print): Burnett County - Roger Peterson, Representative
Indicate Whether: [X] Owner or [ ] Operator

Signature of Owner or Operator: X Roger M. Peterson
Date Signed: 7/12/93

Wisconsin Department of Industry, Labor and Human Relations

Complete one form for each site closure.

CHECKLIST FOR UNDERGROUND TANK CLOSURE

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: BURNETT COUNTY GOVT CTR
Site Street Address (not P.O. Box): HWY 35 N.
☐ City ☐ Village ☒ Town of: SIREN
State: WI | Zip Code: | County: BURNETT

2. Owner Name: BURNETT COUNTY GOVT CTR
Owner Street Address: HWY 35 N
☐ City ☐ Village ☒ Town of: SIREN | State: WI | Zip Code:
County: BURNETT | Telephone No. (include area code): ( )

3. Closure Company Name (Print): COOPER ENGINEERING
Closure Company Street Address: 100 W. ORCHARD BEACH LN RICE LAKE
Closure Company Telephone No. (include area code): (715) 234-7008
Closure Company City, State, Zip Code: RICE LAKE WI

4. Name of Company Performing Closure Assessment: COOPER ENGINEERING
Assessment Company Street Address, City, State, Zip Code: 100 W. ORCHARD BEACH LN RICE LAKE WI
Telephone # (include area code): (715) 234-7008
Certified Assessor Name (Print): ROB ANDERSON
Assessor Signature: Robert A. Anderson
Assessor Certification No.: 03031

Tank ID #	Closure	Temp. Closure	Closure In Place	Tank Capacity	Contents *	Closure Assessment
	☒	☐	☐	10,000	~~04~~ 01	☒ Y ☐ N
	☐	☐	☐			☐ Y ☐ N
	☐	☐	☐			☐ Y ☐ N
	☐	☐	☐			☐ Y ☐ N
	☐	☐	☐			☐ Y ☐ N
	☐	☐	☐			☐ 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.

	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	☒	☐
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	☑	☐

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			

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
Bruce Walters	[signature]	0281k	6/30/93

I. **INSPECTOR INFORMATION**

Inspector Name (print)	Inspector Signature	Inspector Certification No.
Jan M Foster		0159

FDID # For Location Where Inspection Performed	Inspector Telephone Number	Date Signed
	715 723 5100	6-30-93

OWNER

APPENDIX D

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 Burnett County DATE 7/21/93

LOCATION Siren CEC REP

TRANSPORTER'S NAME BTD Services R.I., WI
(Trucker)

LICENSE

RELINQUISHED BY Burnett Co. Highway Dept. DATE 6-30-93

TIME

RECEIVED BY Burnett DBA DATE 6/30/93
(Name)

BTD Services
(Salvage Company Name)

prior use Heating oil

TANK SIZE 1-10K PRODUCT Diesel

CONSTRUCTION Steel

COMMENTS: Recycled

RETURN COMPLETED FORM TO COOPER ENGINEERING