

5/20/93

July 6, 1993  
(CBG120783)

Mr. Robert Dreblow  
City of Cedarburg  
Post Office Box 49  
W63 N645 Washington Avenue  
Cedarburg, Wisconsin 53012

RE: Underground Storage Tank Closure Assessment, Cedarburg Fire Department, Station #2, W61 N623 Mequon Street, Cedarburg, Wisconsin

Dear Mr. Dreblow:

Northern Environmental Technologies, Incorporated (Northern Environmental) completed an underground storage tank (UST) closure assessment on a 550-gallon diesel fuel UST removed from the Cedarburg Fire Department, Station #2 (CFD), W61 N623 Mequon Avenue, Cedarburg, Wisconsin. The site is referred to as "the Property" in the remainder of this report. The Property is located in the northeast quarter of the southeast quarter of Section 27, Township 10 North, Range 21 East in Ozaukee County, Wisconsin (latitude 43 degrees, 8 minutes, 22 seconds north, longitude 87 degrees, 9 minutes, 40 seconds west) (Figure 1). The UST closure assessment conforms to WDILHR UST closure assessment requirements (Reference 1). This report describes the methods used to complete the closure assessment, presents the findings, and describes the significance of these findings.

**METHODS OF INVESTIGATION**

The purpose of a UST closure assessment is to determine if stored product has been released into surrounding soil and/or ground water. Several investigative methods were employed to assess the potential presence of petroleum compounds in soil and/or ground-water in the vicinity of the former UST. These methods are described in more detail below. Photographs documenting field activities are available upon request from Northern Environmental.

**Observation and Inspection of UST System Removal**

Northern Environmental was retained by the City of Cedarburg to observe removal and complete a closure assessment for a 550-gallon diesel fuel UST located near the south side of the CFD. Figure 2 shows the Property layout and the former location of the UST. The UST was used to store diesel fuel for use in the Cedarburg Fire Department emergency vehicles and equipment. The City of Cedarburg contracted Petroleum Equipment, Incorporated (PEI) (3950 West Douglas Avenue, Milwaukee, Wisconsin) to remove the UST in accordance with

nfa [signature] 7/15/93

applicable regulations. The UST was removed on May 20, 1993. Weather conditions during removal consisted of partly cloudy skies and temperatures between 60 and 65 degrees Fahrenheit. A Northern Environmental hydrogeologist, certified in the State of Wisconsin as a site assessor, was present to conduct the UST closure assessment. Site assessor certification is presented in Attachment A. Mr. Rodger Rahn from the City of Cedarburg Fire Department was present to observe the UST removal. PEI subcontracted Central Tank Service, Incorporated (CTS) (1904 South 71st Street, West Allis, Wisconsin) to remove residual sludge, clean, and dispose of the UST and sludge in accordance with WDNR and WDILHR requirements.

PEI personnel utilized a backhoe to remove overlying soil. The UST was then ventilated and monitored by CTS personnel until less than 10 percent of the lower explosive limit (LEL) for diesel fuel was achieved in the UST interior. After the UST was removed, CTS cut an access hole into one end of the tank and cleaned the UST on-site by physically removing all residual contents and applying an absorbent material to the tank walls. The tank sludge and cleaning residue were temporarily stored on-site in 55-gallon drums pending proper disposal. All UST openings were plugged and the UST was transported by PEI personnel for proper disposal. The UST sludge was subsequently collected and disposed by Milwaukee Solvents, Incorporated. UST sludge disposal receipts are included in Attachment B.

Upon removal, the UST system was inspected for potential signs of leakage. The exterior of the UST and associated piping was inspected for corrosion, physical damage, loose fittings, and perforations. An updated WDILHR Underground Petroleum Product Tank Inventory form reflecting closure of the UST was submitted to the WDILHR. A copy of the amended UST inventory form is included in Attachment C.

#### Soil Screening, Sampling, and Analysis

During UST removal, a Northern Environmental hydrogeologist examined in-place and excavated soil for the presence of released diesel fuel. Soils surrounding the UST were sampled with a stainless steel trowel and field screened for the presence of volatile and semi-volatile organic compounds such as those found in petroleum fuels. Field screening included observation of soil odor and appearance, and photoionization detector (PID) field headspace analysis. PID headspace analysis consisted of collecting a representative soil sample in a 16-ounce glass jar, sealing the jar with aluminum foil and a threaded metal collar, and storing the sample in a warm (at least 60°F) location for at least one-half hour to allow organic compounds to volatilize. The aluminum foil was then carefully punctured with the PID probe extension, and the highest stable reading occurring within 10 to 20 seconds was recorded in instrument units as isobutylene (iui). The PID utilized was a Thermo Environmental Instruments Model 580A Organic Vapor Monitor (OVM) outfitted with a 10.6 eV lamp calibrated daily for direct response to isobutylene. The OVM was field calibrated daily with 251 parts per million (ppm) isobutylene. Sampling tools were cleaned in an Alconox detergent solution and double rinsed with potable water between sampling locations.

No evidence of a release was detected during UST removal or soil field screening. Consequently, a standard UST closure assessment was performed. The WDILHR guidelines for UST closure assessments require that samples be collected for laboratory analysis of diesel range organics (DRO) from under each end of the tank, for every 20 feet of product piping,

and from beneath the fill pipe if located remote from the UST (Reference 1). Accordingly, samples were collected from native soils approximately 2.0 feet below the bottom of each end of the UST (FDS-01 and FDS-02) and one foot beneath the dispenser piping (FDS-03). Laboratory samples were not required from beneath the fill piping as it was located immediately above the UST. The soil samples submitted for laboratory analysis were cooled to 4°C, and submitted to a WDNR certified analytical laboratory (U.S. Oil, Incorporated [U.S. Oil] Analytical Laboratory, Combined Locks, Wisconsin) for analysis of DRO using the WDNR-Modified Method (Reference 2). Soil sampling locations are illustrated on Figure 2.

## **SUMMARY OF FINDINGS**

### **UST System History, Design, and Condition**

The UST was 550-gallon capacity measuring six feet in length and four feet in diameter. The former location of the UST, vent pipe, and dispenser pipe are shown on Figure 2. The UST was installed in 1985 and was used to store diesel fuel for vehicles and equipment at the CFD until closure (Reference 3). The UST was constructed of welded steel plates with an asphaltum coating. The UST had cathodic protection, and a monitoring sump installed in the UST excavation. Fill and vent piping were constructed of bare steel with threaded fittings. Diesel fuel was dispensed through a suction pump with a check valve at the UST. The fill pipe was located immediately above the UST. The backfill surrounding the UST was predominantly sand. The UST and associated piping were in good condition with no apparent holes. Only minor surficial corrosion and pitting was observed on the exterior surface of the UST and piping.

### **Soil Examination and Analysis**

Soil samples collected from the walls and floors of the UST excavation did not contain detectable concentrations of diesel. No stained soils, petroleum-type odors, or elevated PID responses were detected in any samples. Soil samples did not contain DRO above laboratory method detection limits (5 ppm). Field screening results and laboratory analyses are summarized on Table 1. Copies of the laboratory report and the chain-of-custody record are included in Attachment D. The UST excavation was immediately backfilled, compacted, and leveled to grade with the excavated soil and additional clean gravel fill as necessary.

### **Regulatory Requirements**

The WDNR commonly uses 10 ppm of petroleum compounds as a guideline above which soils are considered "contaminated" (Reference 4). This guideline was originally developed to regulate the management of spills. The 10 ppm concentration represented the practical limit of detection for VOCs in soil. This clean up guideline was subsequently extrapolated to cover management of petroleum affected soil generated in leaking UST cases. Concentrations of DRO were below the method detection limit of 5.0 ppm in all soil samples. Consequently, no further action is necessary at the Property.

## CONCLUSIONS AND RECOMMENDATIONS

Based on the information obtained during the UST closure assessment, diesel was not released from this UST. Therefore, no further investigative or remedial work is necessary and the City of Cedarburg requests a clean closure for this UST system.

The results of this study are based upon professional interpretation of the information available to Northern Environmental given the time and budget constraints of this project. Northern Environmental does not warrant that this report represents an exhaustive study of all possible concerns at the Property. The items investigated as part of this study do represent the most likely sources of environmental concern associated with the described UST system, and are consequently believed to adequately address the needs of the client at the present time.

We trust this information meets your needs. Please feel free to contact us if you have any questions or comments.

Sincerely,  
**Northern Environmental  
Technologies, Incorporated**



John J. Lund  
Hydrogeologist I



Gary S. Graham  
Project Manager



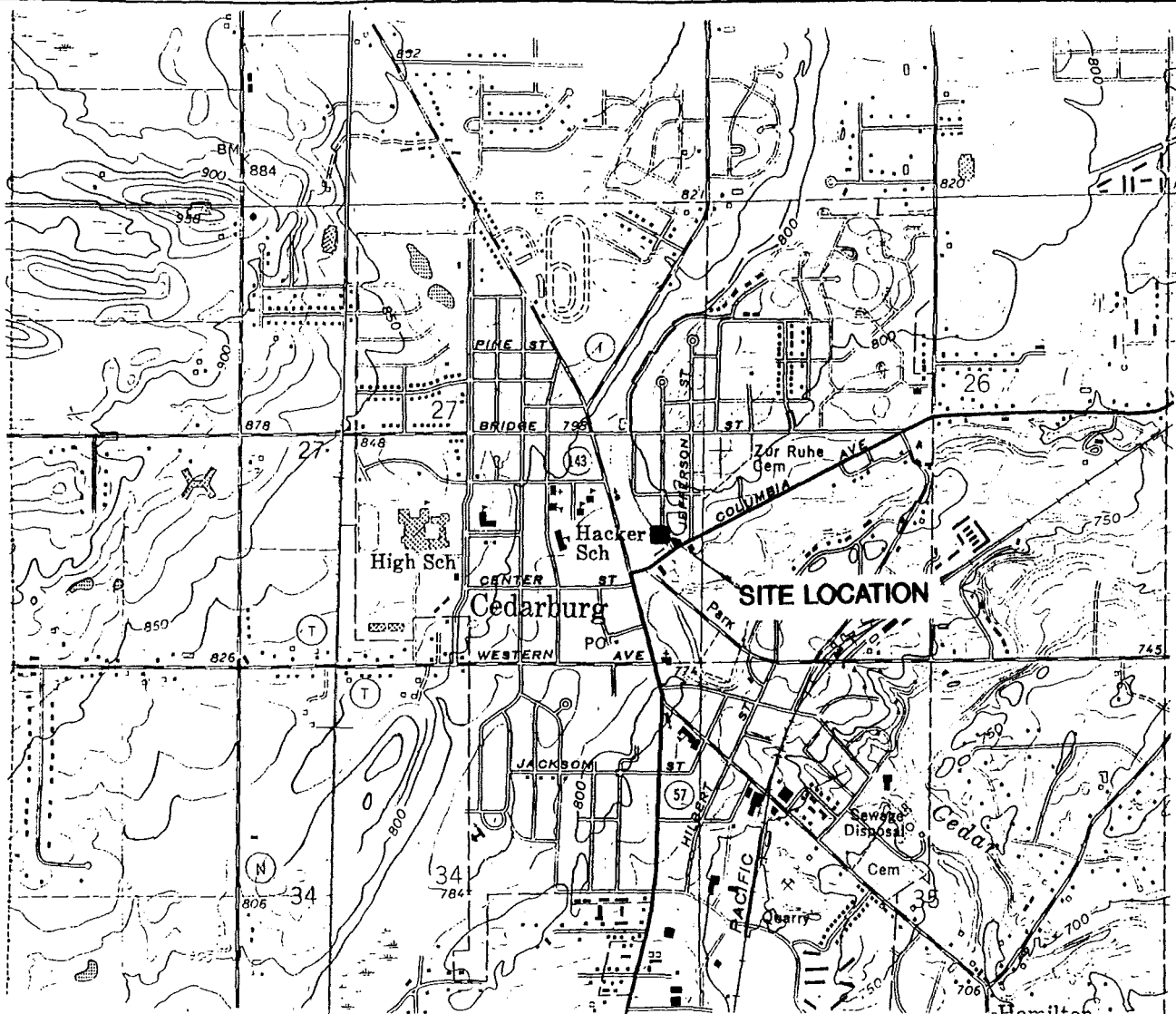
John R. Jansen, R.G., R.Gp. *for*  
Director of Geosciences

JJL/gjw

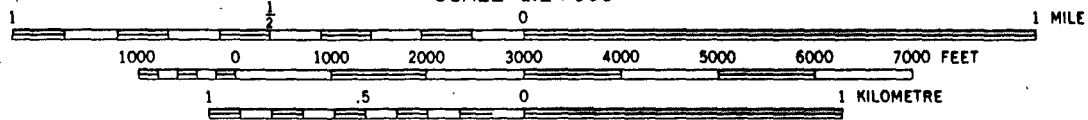
cc: Mr. Brad Wolbert (WDNR)

## REFERENCES

- 1) s. ILHR 10, Wisconsin Administrative Code, *Flammable and Combustible Liquids Code*, April, 1991.
- 2) Wisconsin Department of Natural Resources, *Leaking Underground Storage Tank Analytical Guidance*, April 1992.
- 3) Conversation: R. Rahn (Cedarburg Fire Department) with John Lund (Northern Environmental), May 20, 1992.
- 4) Letter: P. Didier (WDNR) to District Directors (WDNR), *Practices and Standards for the Management of VOC-Contaminated Soils*, April 18, 1986.



SCALE 1:24 000



CONTOUR INTERVAL 10 FEET  
NATIONAL GEODETIC VERTICAL DATUM OF 1929



N



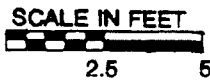
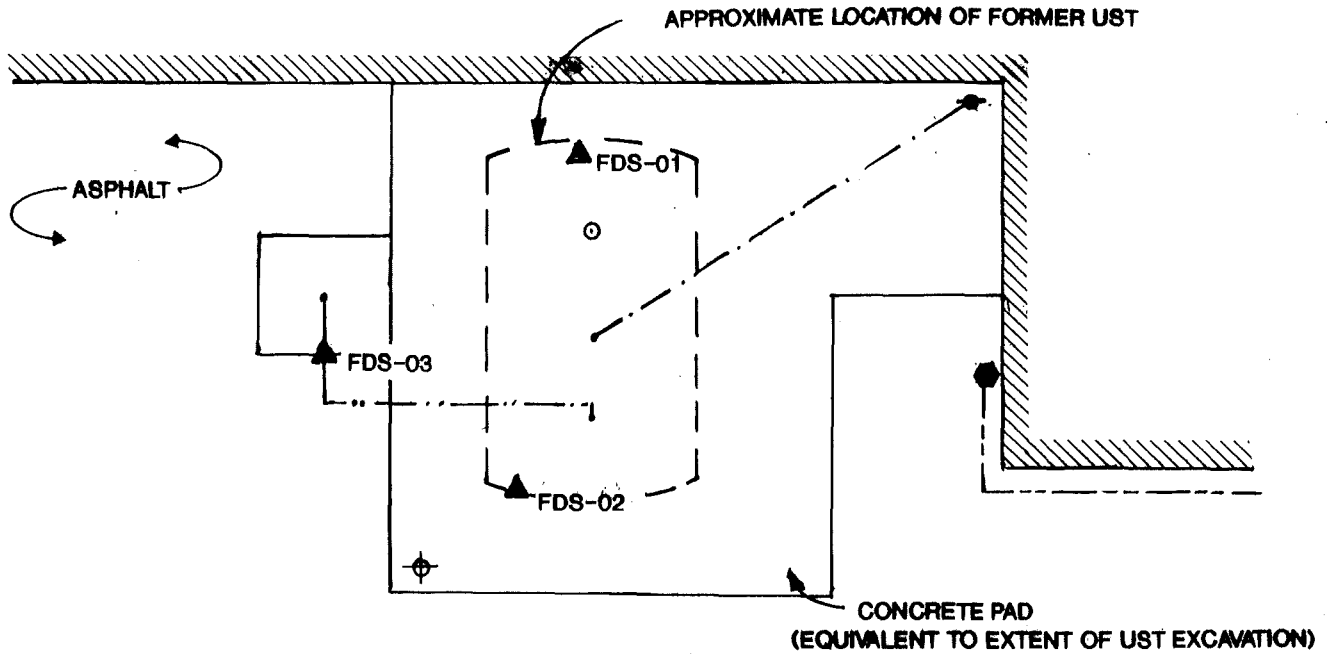
QUADRANGLE LOCATION

BASE MAP SOURCE: USGS CEDARBERG AND FIVE CORNERS, WI 7.5 MIN QUADRANGLE

REV	PROJECT: CBG120783	DATE: 07/06/93	CEDARBURG FIRE DEPARTMENT, STATION #2 CEDARBURG, WISCONSIN
THIS DRAWING AND ALL INFORMATION CONTAINED THEREON IS THE PROPERTY OF NORTHERN ENVIRONMENTAL INCORPORATED AND SHALL NOT BE COPIED OR USED EXCEPT FOR THE PURPOSE FOR WHICH IT IS EXPRESSLY FURNISHED. THE DRAWING AND ANY COPIES THEREOF SHALL BE RETURNED TO THE OWNER ON DEMAND.			
<p><b>▲ Northern Environmental</b> Hydrologists • Engineers • Geologists</p>			SITE LOCATION AND LOCAL TOPOGRAPHY

FIGURE 1

N61 W623 MEQUON ST.



EXPLANATION

- ▲ FDS-01 SOIL SAMPLE LOCATION
- FILL PIPING
- ◆ VENT PIPING
- - - DISPENSER PIPING
- ⊕ MONITOR SUMP
- - -◆ NATURAL GAS METER AND PIPING

REV.	PROJECT: CBG120783	DATE: 07/06/93	CEDARBURG FIRE DEPARTMENT STATION #2 CEDARBURG, WISCONSIN
	THIS DRAWING AND ALL INFORMATION CONTAINED THEREON IS THE PROPERTY OF NORTHERN ENVIRONMENTAL INCORPORATED AND SHALL NOT BE COPIED OR USED EXCEPT FOR THE PURPOSE FOR WHICH IT IS EXPRESSLY FURNISHED. THE DRAWING AND ANY COPIES THEREOF SHALL BE RETURNED TO THE OWNER ON DEMAND.		
<b>▲ Northern Environmental</b> Hydrologists • Engineers • Geologists			SITE LAYOUT AND SOIL SAMPLE LOCATIONS

**Table 1 Summary of Field Screening and Laboratory Analysis, UST Closure Assessment, Cedarburg Fire Department, Station #2, N61 W623 Mequon Street, Cedarburg, Wisconsin**

Sample Label	Depth (feet)	Date Collected	PID Headspace Analysis			Laboratory Analyses Diesel Range Organics (DRO)	Sample Odor	Sample Location	Sample Description
			Time Collected	Time Analyzed	PID Response (Iul)				
FDS-01	8.0	05/20/93	1035	1117	0.0	ND	None	Beneath north end of UST	Dark yellowish brown sandy silt
FDS-02	8.0	05/20/93	1047	1120	17	ND	None	Beneath south end of UST	Dark yellowish brown sandy silt
FDS-03	1.5	05/20/93	1053	1122	11.8	ND	None	Beneath dispenser island	Yellowish brown sandy silt

**NOTE:**

- Iul = Instrument units as Isobutylene
- ND = Not Detected
- = Not Analyzed

CBG120783.TBL1  
 July 6, 1993



**ATTACHMENT A**  
**SITE ASSESSOR CERTIFICATION FOR THE**  
**STATE OF WISCONSIN**

# *The State of Wisconsin*

DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS  
SAFETY & BUILDINGS DIVISION

## **CERTIFICATION**

The person whose name appears on this certificate has complied with Administrative Rule ILHR 10 and is authorized to engage in the speciality as identified below.

Speciality:	Expiration Date:	Cert. No.:
SA	5/1/94	04193

JOHN J LUND  
2101 CHATEAU CT #111  
GRAFTON WI 53024

**ATTACHMENT B**  
**UST SLUDGE DISPOSAL RECEIPT**

MILWAUKEE SOLVENTS & CHEM  
 14765 W. BOBOLINK AVE  
 MENOMONEE FALLS, WI 53051  
 TEL. 414-252-3550

# INVOICE

CUSTOMER NO.  
**45267**

DATE	NUMBER
06/29/93	71121
DATE SHIPPED	ASSOCIATED NUMBER
06/29/93	B/L# 75375
CUSTOMER ORDER NUMBER	

## A MILSOLV. COMPANY

SOLD TO

PETROLEUM EQUIPMENT  
 3950 WEST DOUGLAS AVENUE  
 MILWAUKEE, WI 53209

SHIP TO

CITY OF CEDARBURG  
 W61 N617 MEQUON AVE  
 PETRLM EQUIPMENT  
 CEDARBURG, WI 53012  
 LIGHT & WATER DEPT  
 ATTN: ACCOUNTS PAYABLE

TERMS	FOB	SHIPPED VIA	SALES AGENT	FREIGHT CHARGES
NET 30 DAYS		M. S. C.	30	

QUANTITY DELIVERED	PACKAGE	DESCRIPTION	TOTAL QUANTITY	UNIT PRICE	AMOUNT
1	1EWDUM	WASTE FUEL OIL PROD #: 900108 55 GALLON DRUM - PICK UP STENCIL WA# 060893J	1	270.0000	270.0
1	1ECHARGE	MANIFEST PREPARATION CHARGE PROD #: 910101	1	30.0000	30.0
1	1ECHARGE	FIELD SERVICES CHARGE PROD #: 910201	1	85.0000	85.0
MERCH TOTAL					385.00

PLEASE REMIT TO:	TSD Facility Milw Solvents & Chemicals MB Unit 3005 Milwaukee WI 53268	WE CERTIFY THAT WE ARE AN EQUAL OPPORTUNITY EMPLOYER AND THAT WE COMPLY WITH EXECUTIVE ORDERS #11246 AND #11375.	<b>TOTAL</b>	385.00
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PLEASE PAY THIS AMOUNT

**ATTACHMENT C**

**UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY FORM  
(FORM SBD-7437)**

# UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

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

**For Office Use Only:**  
Tank ID #

Information Required By Sec. 102.142, Wis. Stats.

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 one):

- |   |  |   |
|---|--|---|
| 1A. <input type="checkbox"/> In Use or 1B. <input type="checkbox"/> Newly Installed | 4. <input checked="" type="checkbox"/> Closed - Tank Removed     | 8. <input type="checkbox"/> Changed Ownership |
| 2. <input type="checkbox"/> Abandoned With Product                                  | 6. <input type="checkbox"/> Closed - Filled With Inert Material  | (Indicate new owner below)                    |
| 3. <input type="checkbox"/> Abandoned No Product (empty) or With Water              | 7. <input type="checkbox"/> Out of Service - Provide Date: _____ |   |

Fire Department Providing Fire Coverage Where Tank Located:

CEDARBURG

**A. IDENTIFICATION: (Please Print)**

1. Tank Site Name <u>CEDARBURG FIRE DEPARTMENT, STATION #2</u>	Site Address <u>W 61 N 623 MEQUON ST.</u>	Site Telephone No. <u>(414) 375-7630</u>
<input checked="" type="checkbox"/> City <u>CEDARBURG</u> <input type="checkbox"/> Village <input type="checkbox"/> Town of: _____	State <u>WI</u>	Zip Code <u>53012</u> County <u>OSHAUKEE</u>

2. Owner Name (mail sent here unless indicated otherwise in #3 below) <u>CITY OF CEDARBURG</u>	Owner Mailing Address (mail sent here unless indicated otherwise in #3) <u>P.O. BOX 49</u>
<input checked="" type="checkbox"/> City <u>CEDARBURG</u> <input type="checkbox"/> Village <input type="checkbox"/> Town of: _____	State <u>WI</u> Zip Code <u>53012</u> County <u>OSHAUKEE</u>

3. Alternate Mailing Name If Different Than #2	Alternate Mailing Street Address If Different From #2
<input type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town of: _____	State _____ Zip Code _____ County _____

4. Tank Age (date installed, if known: or years old) <u>1985</u>	5. Tank Capacity (gallons) <u>550</u>	6. Tank Manufacturer's Name (if known) <u>U.K.</u>
---	--	---

**B. TYPE OF USER (check one):**

1. <input type="checkbox"/> Gas Station	2. <input type="checkbox"/> Bulk Storage	3. <input type="checkbox"/> Utility	4. <input type="checkbox"/> Mercantile
5. <input type="checkbox"/> Industrial	6. <input type="checkbox"/> Government	7. <input type="checkbox"/> School	8. <input type="checkbox"/> Residential
9. <input type="checkbox"/> Agricultural	10. <input checked="" type="checkbox"/> Other (specify): <u>MUNICIPALITY</u>		

**C. TANK CONSTRUCTION:**

1. <input type="checkbox"/> Bare Steel	2. <input checked="" type="checkbox"/> Cathodically Protected and Coated Steel (A. <input checked="" type="checkbox"/> Sacrificial Anodes or B. <input type="checkbox"/> Impressed Current)
3. <input type="checkbox"/> Coated Steel	4. <input type="checkbox"/> Fiberglass
5. <input checked="" type="checkbox"/> Other (specify): <u>MINIATOR TANK</u>	6. <input type="checkbox"/> Relined - Date _____
7. <input type="checkbox"/> Steel - Fiberglass Reinforced Plastic Composite	9. <input type="checkbox"/> Unknown

Approval: 1. <input type="checkbox"/> Nat'l Std. 2. <input checked="" type="checkbox"/> UL 3. <input type="checkbox"/> Other: _____	Is Tank Double Walled? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Overfill Protection Provided? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, identify type: _____	Spill Containment? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Tank leak detection method: 1.  Automatic tank gauging 2.  Vapor monitoring 3.  Groundwater monitoring 4.  Inventory control and 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. <input checked="" type="checkbox"/> Bare Steel	2. <input type="checkbox"/> Cathodically Protected and Coated or Wrapped Steel (A. <input type="checkbox"/> Sacrificial Anodes or B. <input type="checkbox"/> Impressed Current)	3. <input type="checkbox"/> Coated Steel
4. <input type="checkbox"/> Fiberglass	5. <input type="checkbox"/> Other (specify): _____	9. <input type="checkbox"/> Unknown

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

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. <input type="checkbox"/> Nat'l Std. 2. <input type="checkbox"/> UL 3. <input type="checkbox"/> Other: _____	Double Walled: <input type="checkbox"/> Yes <input type="checkbox"/> No
--	---

**E. TANK CONTENTS**

1. <input checked="" type="checkbox"/> Diesel	2. <input type="checkbox"/> Leaded	3. <input type="checkbox"/> Unleaded	4. <input type="checkbox"/> Fuel Oil
5. <input type="checkbox"/> Gasohol	6. <input type="checkbox"/> Other	7. <input type="checkbox"/> Empty	8. <input type="checkbox"/> Sand/Gravel/Slurry
9. <input type="checkbox"/> Unknown	10. <input type="checkbox"/> Premix	11. <input type="checkbox"/> Waste Oil	12. <input type="checkbox"/> Propane
13. <input type="checkbox"/> Chemical * _____	14. <input type="checkbox"/> Kerosene	15. <input type="checkbox"/> 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): <u>05/26/93</u>	Has a site assessment been completed? (see reverse side for details) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
---	---

If installation of a new tank is being reported, indicate who performed the installation inspection:

1. <input type="checkbox"/> Fire Department	2. <input type="checkbox"/> DILHR	3. <input type="checkbox"/> Other (identify) _____
---	-----------------------------------	--

Name of Owner or Operator (please print): <u>ROBERT DREBLON</u>	Indicate Whether: <input type="checkbox"/> Owner or <input checked="" type="checkbox"/> Operator
--	---

Signature of Owner or Operator: <u>x Robert R. Drblon</u>	Date Signed: <u>x 5/26/93</u>
--	----------------------------------

**ATTACHMENT D**

**LABORATORY REPORT AND CHAIN-OF-CUSTODY FORMS**



**Analytical Laboratory**

425 S. Washington St. Combined Locks, WI 54113  
Phone 414-735-8298

WI DNR Certified Lab #445027660

REPORT TO: JOHN LUND  
556-036 FDS01 1 1599699 02302  
NORTHERN ENVIRONMENTAL  
  
1214 W VENTURE CRT  
MEQUON WI 53092

REPORT DATE 6/04/93  
SAMPLE DATE 5/20/93  
SAMPLE ID FDS-01  
SAMPLE DESC CEDARBURG

TEST DESCRIPTION

RESULTS

DATE SAMPLE RECEIVED  
PROJECT NUMBER  
SAMPLE TYPE

5/21/93  
CBG120783  
SOIL

TOTAL SOLIDS %  
DATE ANALYZED

82.7  
5/24/93

MODIFIED DRO WDNR APR 92  
DATE EXTRACTED  
DATE ANALYZED  
DIESEL (DRO) MG/KG  
MDL MG/KG

5/29/93  
5/29/93  
ND

10

ND = NOT DETECTED

AUTHORIZED SIGNATURE

COMMENTS:





**Analytical Laboratory**

425 S. Washington St. Combined Locks, WI 54113  
Phone 414-735-8298

WI DNR Certified Lab #445027660

REPORT TO: JOHN LUND  
556-036 FDS02 1 1599700 02302  
NORTHERN ENVIRONMENTAL  
  
1214 W VENTURE CRT  
MEQUON WI 53092

REPORT DATE 6/04/93  
SAMPLE DATE 5/20/93  
SAMPLE ID FDS-02  
SAMPLE DESC CEDARBURG

TEST DESCRIPTION

RESULTS

DATE SAMPLE RECEIVED  
PROJECT NUMBER  
SAMPLE TYPE

5/21/93  
CBG120783  
SOIL

TOTAL SOLIDS %  
DATE ANALYZED

80.1  
5/24/93

MODIFIED DRO WDNR APR 92  
DATE EXTRACTED  
DATE ANALYZED  
DIESEL (DRO) MG/KG  
MDL MG/KG

6/1/93  
6/1/93  
ND  
10

ND = NOT DETECTED

AUTHORIZED SIGNATURE

COMMENTS:



**Analytical Laboratory**

425 S. Washington St. Combined Locks, WI 54113  
Phone 414-735-8298

WI DNR Certified Lab #445027660

REPORT TO: JOHN LUND  
556-036 FDS03 1 1599701 02302  
NORTHERN ENVIRONMENTAL  
  
1214 W VENTURE CRT  
MEQUON WI 53092

REPORT DATE 6/04/93  
SAMPLE DATE 5/20/93  
SAMPLE ID FDS-03  
SAMPLE DESC CEDARBURG

TEST DESCRIPTION

RESULTS

DATE SAMPLE RECEIVED  
PROJECT NUMBER  
SAMPLE TYPE

5/21/93  
CBG120783  
SOIL

TOTAL SOLIDS %  
DATE ANALYZED

90.5  
5/24/93

MODIFIED DRO WDNR APR 92  
DATE EXTRACTED  
DATE ANALYZED  
DIESEL (DRO) MG/KG  
MDL MG/KG

5/29/93  
5/29/93  
ND

10

ND = NOT DETECTED

AUTHORIZED SIGNATURE

COMMENTS:

# Northern Environmental

1214 West Venture Court  
Mequon, WI 53092  
414-241-3133  
FAX 414-241-8222

372 West County Road D  
New Brighton, MN 55112  
612-635-9100  
FAX 612-635-0643

a subsidiary of Bonestroo, Rosene, Anderlik and Associates, Inc.

## CHAIN OF CUSTODY RECORD REQUEST FOR ANALYSIS

Page 1 Of 1

No 1232

Project No: <u>CBG 120783</u> Task No:		Sampling Date(s): <u>20 May 1993</u>		Sample Integrity - To be completed by receiving lab Seal intact upon receipt <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No															
Project Location: (city) <u>CELANDERBURG</u>		Shipment Date:		Method of Shipment <u>Course</u>															
Project Manager: <u>GARY S. GRANHAM</u>				Contents Temperature <u>102</u> °C Refrigerator No: _____															
Sampler (name): <u>JOHN J. LUND</u>		Hazard Identification <input type="checkbox"/> Reactive Non Hazardous <input type="checkbox"/> <input type="checkbox"/> Toxic Flammable <input type="checkbox"/> <input type="checkbox"/> Infectious Skin Irritant <input type="checkbox"/> <input checked="" type="checkbox"/> Other <u>PETRO. EMP. SOIL</u>		ANALYSES REQUESTED  TRPH (EPA Method 9073) Oil & Grease (EPA Method 413.1) BETX (EPA Method 8020) PVOC (EPA Method 8020) VOC (EPA Method 8021) PAH (EPA Method ) Pb (EPA Method ) <u>Protocol D</u>															
Sampler (signature): <u>[Signature]</u>																			
Laboratory: <u>U.S. OIL</u>																			
Wisconsin DNR Certification No: <u>445 027660</u>																			
Laboratory Contact: <u>J. STEVENS</u>		TURNAROUND TIME REQUIRED <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush Date Needed _____																	
Reports to be Sent To: <u>JOHN LUND</u>																			
Lab ID. No.	Sample No.	Collection		No. of Containers, Size and Type	Description			Preservative	DRO	GRO	TRPH (EPA Method 9073)	Oil & Grease (EPA Method 413.1)	BETX (EPA Method 8020)	PVOC (EPA Method 8020)	VOC (EPA Method 8021)	PAH (EPA Method )	Pb (EPA Method )	Other Analysis	
		Date	Time		Water	Soil	Other												
<u>183</u> <del>139970</del>	<u>FDS-01</u>	<u>5/20</u>	<u>1035</u>	<u>1-60ml, 1-4oz</u>		<u>X</u>		<u>ICE</u>	<u>X</u>										
<u>183</u> <del>139970</del>	<u>FDS-02</u>	<u>5/20</u>	<u>1047</u>	<u>↓ ↓</u>		<u>X</u>		<u>"</u>	<u>X</u>										
<u>184</u> <del>139970</del>	<u>FDS-03</u>	<u>5/20</u>	<u>1053</u>	<u>↓ ↓</u>		<u>X</u>		<u>"</u>	<u>X</u>										
<u>185</u> <del>139970</del>	<u>CLWS-05</u>	<u>5/20</u>	<u>1353</u>	<u>↓ ↓</u>		<u>X</u>		<u>"</u>									<u>X</u>		
Lab Batch No:		Price Quote No:		Comments:															
Packed By: <u>J. LUND</u>		Sealed For:		Shipping By: <u>J. LUND</u>															
Relinquished By: <u>[Signature]</u>		Date: <u>5/21/93</u>		Relinquished By:				Date:				Relinquished By:				Date:			
Company: <u>NET</u>		Time: <u>1531</u>		Company:				Time:				Company:				Time:			
Received By: <u>[Signature]</u>		Date: <u>5/21/93</u>		Received By:				Date:				Received By:				Date:			
Company: <u>S. O. I.</u>		Time: <u>7:30</u>		Company:				Time:				Company:				Time:			

PID RESPONSE