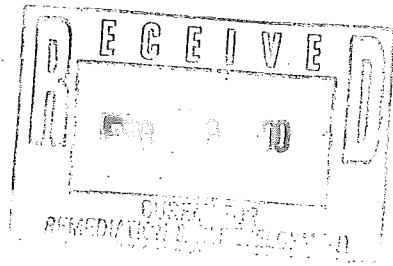


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86-81-11

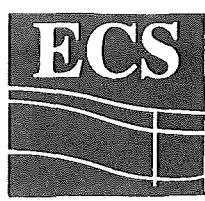
Twin Town Store

Tank Closure Assessment

Almena, Wisconsin

ECS No. MCPT995

December 1999



Environmental Consulting Services, LLC

NOR



Environmental Consulting Services, LLC
318 Woodward Avenue
Chippewa Falls, WI 54729
715-726-8684
FAX 715-726-8675

December 12, 1999

Re: Twin Town Store
Tank Closure Assessment
Almena, Wisconsin
ECS No. MCPT995

Wisconsin Department of Natural Resources
Bureau of Remediation and Redevelopment
PO Box 7921
Madison, WI 53707

Gentlemen:

On behalf of the Twin Town Store, Environmental Consulting Services, LLC (ECS) is submitting this report titled "Tank Closure Assessment", dated December 1999. Piping upgrades were completed to three 10,000 gallon USTs at the above referenced site October 1999. Analytical results from soil samples collected beneath the piping indicated no concentrations of gasoline range organic (GRO) or diesel range organic (DRO) compounds above 10 ppm. Therefore ECS recommends that no additional investigation be required and the site be closed. If you have any questions regarding the results of the tank closure assessment, please contact me at 715-726-8684.

Sincerely,

A handwritten signature in cursive script that reads "David McDaniel".

David McDaniel, P.E.

Distribution List

No. of Copies

Sent to

1

Wisconsin Department of Natural Resources
Bureau of Remediation and Redevelopment
PO Box 7921
Madison, WI 53707

1

Twin Town Store
597 10 1/2 Avenue
Almena, Wisconsin 54805

Tank Closure Assessment

Twin Town Store
Almena, Wisconsin

Prepared for:
Twin Town Store

Prepared by:
Environmental Consulting Services, LLC
318 Woodward Avenue
Chippewa Falls, WI 54729
(715) 726-8684

I, David A. McDaniel, hereby certify that I have complied with ch. ILHR 10, Wis. Adm. Code, and I am authorized to conduct tank closure assessments in the State of Wisconsin, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in ch. ILHR 10, Wis. Adm. Code.

David McDaniel 45960 1/29/00
David McDaniel Certification Number Date
Certified Site Assessor

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Figure 2 Site Plan

List of Appendices

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Appendix B Closure Documentation
Appendix C Standard Operating Procedures
Appendix D Laboratory Reports

Tank Closure Assessment

Twin Town Store

1.0 Introduction

This report describes the tank closure assessment conducted by Environmental Consulting Services, LLC (ECS) at the Twin Town Store in Almena, Wisconsin. ECS collected soil samples during upgrades to piping and dispenser associated with a gasoline and diesel UST system. The purpose of the site assessment was to determine if obvious petroleum releases had occurred as a result of petroleum storage or usage at the location of the UST piping or dispensers.

2.0 Site Background

The mailing address of the site is 597 10 1/2 Street, in Almena, Wisconsin. The site is located less than 100 feet west of Barron County Trunk Highway P in the NE 1/4 of the SE 1/4 of Section 12, T33N, R14W as shown in Figure 1, "Site Location Map." The site is bounded by 10 1/2 Street to the north. Based on surface elevation at the site in relation to nearby surface water, groundwater at the site is expected to be encountered at a depth of less than 40 feet, and groundwater flow at the site is expected to be toward the northwest.

The site is occupied by a store, restaurant and gasoline station. UST are located near the northeast corner of the property. Building and tank locations are located as shown on Figure 2, "Site Plan." The USTs store gasoline and diesel fuel for resale. The dispenser are located directly over the east end of the USTs. No other USTs are known to remain at the site.

3.0 Tank Closure Assessment

The piping for the UST system was upgraded by McDonald Petroleum Service on November 18, 1998. Personnel involved with closure at the site are listed in Appendix A, "Project Personnel." The tank closure checklist is included in Appendix B, "Closure Documentation." Weather conditions during the project included temperatures ranging from approximately 50 to 60 degrees F. No precipitation was noted during completion of the tank closure assessment.

Prior to upgrading of the UST system, oxygen content and explosive levels in the interior of the tank were monitored to determine if an explosion hazard was present. Soil was excavated to expose the tops of the tank. The piping was removed and upgraded piping was installed.

ECS observed no obvious petroleum odors or stains in soil during tank closure. Samples were collected beneath both dispensers. Samples were collected in accordance with procedures detailed in Appendix C, "Standard Operating Procedures. The sample locations are shown on Figure 2, "Site Plan." The samples were stored on ice for shipment to EnChem for analysis of GRO and DRO.

Excavated soil consisted of brown silty sand with gravel. Groundwater, was not encountered in the tank excavation which extended to a maximum depth of about three feet. The tank excavation was backfilled to the original surface elevation with clean sand following tank system upgrades.

4.0 Results

Sample P1 collected beneath the gasoline dispenser contained 7 mg/kg of gasoline range organic (GRO) compounds. Sample P2 collected beneath the diesel dispenser contained 9.6 mg/kg DRO. Analytical results are summarized in Table 1, "Analytical Results" and laboratory reports are included in Appendix D, "Laboratory Reports."

5.0 Waste Handling and Documentation

Sludge and waste liquids generated as a result of tank closure were drummed and will be transported offsite for disposal. Following tank upgrades, scrap metal piping was removed from the site by McDonald Petroleum and transported to Max Phillips & Sons in Eau Claire, Wisconsin.

6.0 Conclusions and Recommendations

ECS observed no obvious petroleum stains or odors in soil following tank removal. Analytical results indicated no concentrations of gasoline or diesel compounds above WDNR action levels. Therefore, ECS recommends that the site be closed with no further investigation or remediation required at the UST location.

Table

Table 1 Analytical Results

Table 1
Analytical Results

Sample ID	Depth(ft)	DRO((mg/kg)	GRO (mg/kg)
P1	2-3	NA	7.0
P2	2-3	9.6	NA

NA - Indicates compounds not analyzed for

Figures

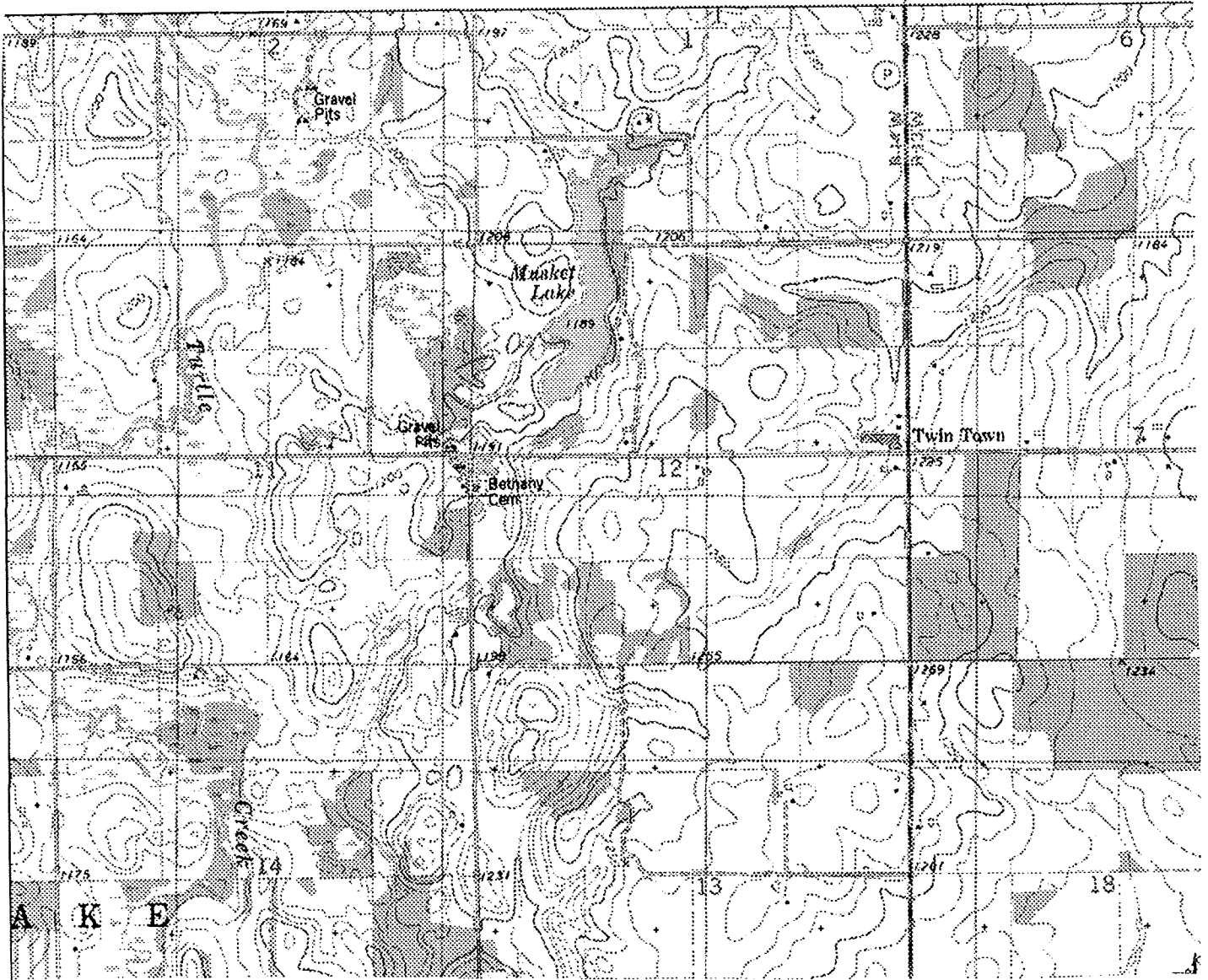
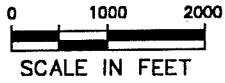
Figure 1 Site Location Map

Figure 2 Site Plan

REPRODUCED FROM

USGS ARLAND QUADRANGLE

WISCONSIN - BARRON CO. 7.5 MINUTE SERIES

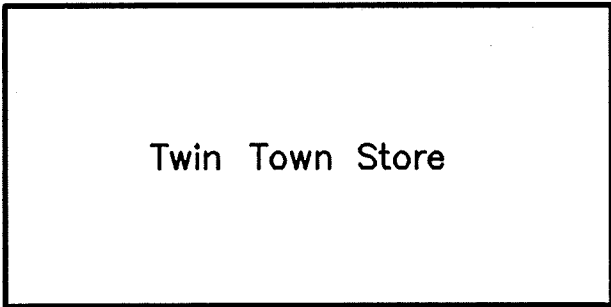
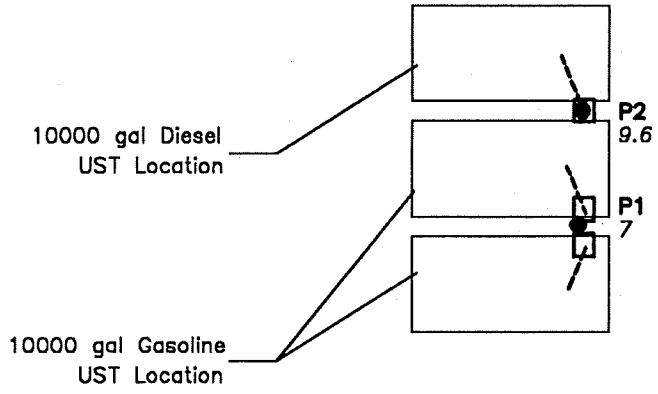


ECS

SITE ASSESSMENT
TWIN TOWN STORE


FIGURE 1
SITE LOCATION MAP

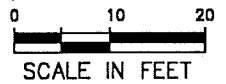
PROJ. NO.
MCPT995
DATE
11/13/99



LEGEND

 Pump and Piping Location

 Tank Assessment Sample
With DRO or GRO Results (mg/kg)



ECS

SITE ASSESSMENT
TWIN TOWN STORE

FIGURE 2
SITE PLAN

PROJ. NO.
MCPT995
DATE
11/12/99

Appendix A

Project Personnel

1. Owner

Twin Town Store
597 10 1/2 Avenue
Almena, Wisconsin 54805
Phone: (715) 357-3773

2. Tank Assessor

Environmental Consulting Services, LLC
318 Woodward Avenue
Chippewa Falls, WI 54729
Contact: Dave McDaniel (Cert. No. 45960)
Phone: (715) 726-8684

3. Certified Remover/Cleaner

McDonald Petroleum Service
Route 3, Box 311
Chippewa Falls, WI 54729
Contact: Pat McDonald (Cert. No. 0623)
Phone: (715) 723-2059

4. Inspector

Western Wisconsin Inspection
919 Fairfax Street
Altoona, WI 54720
Contact: Bruce Getten (Cert. No. 05504)
Phone: (715) 833-7671

5. Analytical Laboratory

EnChem
1423 N 8th Street
Superior, Wisconsin, WI 54880
Wisconsin Lab Certification No. 405132750
Phone: (800) 837-8237

Appendix B

Closure Documentation

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

**Complete one form for
each site closure.**

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

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

1. Site Name Twin Town Store			2. Owner Name Twin Town Store		
Site Street Address (not P.O. Box) 597 10 1/2 Ave			Owner Street Address 597 10 1/2 Ave		
<input checked="" type="checkbox"/> City	<input type="checkbox"/> Village	<input type="checkbox"/> Town of:	<input checked="" type="checkbox"/> City	<input type="checkbox"/> Village	<input type="checkbox"/> Town of:
Almena			Almena		State WI
State WI	Zip Code 54805	County Barron	County Barron	Telephone No. (include area code) (715) 357	
3. Closure Company Name (Print) McDonalds Petroleum Svc			Closure Company Street Address, 8442 120th St		
Closure Company Telephone No. (include area code) (715) 723 2059			Closure Company City, State, Zip Code Chippewa Falls WI 54729		
4. Name of Company Performing Closure Assessment ECS			Assessment Company Street Address, City, State, Zip Code 318 Woodward Av, Chippewa Falls, WI 54729		
Telephone # (include area code) (715) 726 8684	Certified Assessor Name (Print) David McDaniel		Assessor Signature <i>David McDaniel</i>	Assessor Certification No. 45960	

Tank ID #	Closure	Temp. Closure	Closure In Place	Tank Capacity	Contents *	Closure Assessment
1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N
6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> 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-Wasteoil; 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) _____	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
1. Product Removed			
a. Product lines drained into tank (or other container) and resulting liquid removed, AND	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
b. All product removed to bottom of suction line, OR	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
c. All product removed to within 1" of bottom.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
2. Fill pipe, gauge pipe, tank truck vapor recovery fittings, and vapor return lines capped.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
3. All product lines at the islands or pumps located elsewhere are removed and capped, OR	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
4. Dispensers/pumps left in place but locked and power disconnected.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
5. Vent lines left open.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
6. Inventory form filed indicating temporary closure.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>

C. CLOSURE BY REMOVAL

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

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. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 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. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 13. Inventory form filed by owner with Safety and Buildings Division indicating closure by removal. | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input type="checkbox"/> |
| 14. Site security is provided while the excavation is open. | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input type="checkbox"/> |

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). | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Piping disconnected from tank and removed. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. All liquid and residue removed from tank using explosion proof pumps or hand pumps. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. All pump motors and suction hoses bonded to tank or otherwise grounded. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 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. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 7. Tank openings temporarily plugged so vapors exit through vent. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section F. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9. Tank properly cleaned to remove all sludge and residue. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10. Solid inert material (sand, cyclone boiler slag, pea gravel recommended) introduced and tank filled. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11. Vent line disconnected or removed. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12. Inventory form filed by owner with Safety and Buildings Division indicating closure in place. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

E. CLOSURE ASSESSMENTS

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

- | | | | |
|--|--|--------------------------|--------------------------|
| 1. Individual conducting the assessment has a closure assessment plan (written) which is used as the basis for their work on the site. | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Do points of obvious contamination exist? | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Are there strong odors in the soils? | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Was a field screening instrument used to pre-screen soil sample locations? | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Was a closure assessment omitted because of obvious contamination? | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Was the DNR notified of suspected or obvious contamination? | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N | <input type="checkbox"/> | <input type="checkbox"/> |
| Agency, office and person contacted: _____ | | | |
| 7. Contamination suspected because of: <input type="checkbox"/> Odor <input type="checkbox"/> Soil Staining <input type="checkbox"/> Free Product <input type="checkbox"/> Sheen On Groundwater <input type="checkbox"/> Field Instrument Test | | | |

METHOD OF ACHIEVING 10% LEVEL DESCRIPTION

- Eductor Or Diffused Air Blower
 - Educ or driven by compressed air, bonded and drop tube left in place; vapors discharged minimum of 12 feet above ground.
 - Diffused air blower bonded and drop tube removed. Air pressure not exceeding 5 psig.
- Dry Ice
 - Dry ice introduced at 1.5 pounds per 100 gallons of tank capacity. Dry ice crushed and distributed over the greatest possible tank area. Dry ice evaporated before proceeding.
- Inert Gas (CO/2 or N/2) **NOTE: INERT GASSES PRODUCE AN OXYGEN DEFICIENT ATMOSPHERE. THE TANK MAY NOT BE ENTERED IN THIS STATE WITHOUT SPECIAL EQUIPMENT**
 - Gas introduced through a single opening at a point near the bottom of the tank at the end of the tank opposite the vent.
 - Gas introduced under low pressure not to exceed 5 psig to reduce static electricity. Gas introducing device grounded.
- Tank atmosphere monitored for flammable or combustible vapor levels.
 - Calibrate combustible gas indicator. Drop tube removed prior to checking atmosphere. Tank space monitored at bottom, middle and upper portion of tank. Readings of 10% or less of the lower flammable range (LEL) obtained before removing tank from ground.

NOTE SPECIFIC PROBLEMS OR NONCOMPLIANCE ISSUES BELOW

REMOVER/CLEANER INFORMATION

Pat McDonald Pat McDonald 41295 11-18-99
 Remover Name (print) Remover Signature Remover Certification No. Date Signed

I. INSPECTOR INFORMATION

_____ _____ _____
 Inspector Name (print) Inspector Signature Inspector Certification No.

_____ _____ _____
 FDID # For Location Where Inspection Performed Inspector Telephone Number Date Signed

Appendix C

Standard Operating Procedures

Protocol for Tank Closure Sampling

Soil is excavated to near the base of the tank on one or two sides. The tank can then be removed from the excavation and placed at the surface for a visual inspection. Subsurface conditions including soil types, odors, and visible staining are then observed by the site assessor. Soil samples are then collected beneath the tank in accordance with closure assessment guidelines. A backhoe is typically used to assist in collection of samples following tank closure.

A grab sample of soil is extracted from the tank excavation using the backhoe bucket, and the bucket is then placed on the ground surface next to the excavation. Soil grab samples are obtained from the central portion of each bucket, and not from areas near the bucket surface. Stainless steel sampling equipment used to collect the soil sample from the bucket is decontaminated between samples using a soap and water wash followed by a distilled water rinse.

When necessary a hand auger is used to collect samples. The hand auger is advanced in approximately one foot increments until the desired sample depth is reached. Samples are removed from the bucket of the hand auger using disposable sampling equipment. The hand auger is decontaminated between samples locations using a soap and water wash followed by rinsing.

Soil samples are submitted to WDNR certified laboratory in clean glass sample jars. These are labeled with the sample designation, location, date, time and sampler. Sample collection and preservation procedures will follow the latest WDNR LUST Guidance protocol. Standard chain of custody procedures are followed regarding the shipment and receipt of samples. Visual observations are made of the soils during excavation activities and soil samples are classified in the field.

When appropriate, contaminated soils are kept separate from "clean" soils, and are placed on plastic sheeting to avoid contamination of other surface areas.

Appendix D

Laboratory Reports

Company Name: EPS

Branch or Location: _____

Project Contact: Dave

Telephone: 715 726 8684

Project Number: _____

Project Name: TWINTOWN

Project State: _____

Sampled By (Print): Dave McDaniel

Regulatory Program (circle): UST RCRA CLP SDWA
 NPDES/WPDES CAA NR _____

Other _____



1241 Bellevue St., Suite 9
 Green Bay, WI 54302
 920-469-2436 • 1-800-736-2436
 FAX 920-469-8827

525 Science Drive
 Madison, WI 53711
 608-232-3300 • 1-888-536-2436
 FAX: 608-233-0502

1423 N. 8th Street, Suite 122
 Superior, WI 54880
 715-392-5844 • 1-800-837-8238
 FAX 715-392-5843

CHAIN OF CUSTODY

44030

Page _____ of _____

P.O. # _____ Quote # _____

Mail Report To: Dave

Company: ECS

Address: 318 Woodward St
 Chippewa Falls WI

Invoice To: ECS

Company: _____

Address: _____

Mail Invoice To: EPS

77pm
 10-18-99

ANALYSES REQUESTED
 DRO BRO

FIELD ID	SAMPLE DESCRIPTION	COLLECTION		FIELD SCREEN	MATRIX	GOOD COND.	TOTAL BOTTLES	COMMENTS	LABORATORY NUMBER
		DATE	TIME						
P1		10/18		✓			1-25g Methanol		-001
P2		↓		✓			1-50g		-002
							1-25g		
							1-50g		

***Preservation Code**
 A=None B=HCL C=H2SO4
 D=HN03 E=EnCore F=Methanol**
 G=NaOH O=Other (Indicate)

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

Relinquished By: <u>David McDaniel</u>	Date/Time: <u>10/18/99</u>	Received By: <u>[Signature]</u>	Date/Time: _____	En Chem Project No. <u>790629</u>
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____	Sample Receipt Temp. <u>R.O.T</u>
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____	Sample Receipt pH (Wet/Metals)
Relinquished By: _____	Date/Time: _____	Received By: <u>[Signature]</u>	Date/Time: _____	Custody Seal <u>K-17-9A</u>

MSV

- 1241 Bellevue St., Green Bay, WI 54302
920-469-2436; FAX: 920-469-8827
- 525 Science Dr., Madison, WI 53711
608-232-3300; FAX: 608-233-50502
- 1423 N. 8th Street, Superior, WI 54880
715-392-5844; FAX: 715-392-5843



...chemistry for the environment

- Minneapolis Sales Service Office
(612-541-0628)
- Milwaukee Service Office
(414-327-5717)
- Central WI Sales Office
(715-693-1953)

FAXED
10-26-99

Chain of Custody

Subcontract

En Chem Internal Split

From: En Chem - Superior

To: En Chem Green Bay
Sample Receiving

Requested Analysis

N	N					
A	E					
<i>DRO</i>						
<i>GR0</i>						

Filtered? Y/N
Preservative

Preservation Code

- A - None B - HCL
- C - H2SO4 D - HNO3
- E - EnCore F - Methanol
- G - NaOH O - Other

Project Due: 10-29-99

Normal Turn Quick Turn

Project State: WI

En Chem Project No.: 790629

896279

En Chem Lab No.	Client Field I.D.	Date Sampled	Sample Type	No. of Bottles								Sub Lab Sample No.
-001	P1	10/18	S	1-503 1-209 <i>NDIIT</i>	X							
-002	P2	L	L	1-209 1-203	X							

Relinquished By: <u>Dabrun Hicks</u>	Date/Time: <u>10-19-99 12:15p</u>	Received By: <u>Dunham</u>	Date/Time: <u>10-19-99 12:15p</u>
Relinquished By: <u>Dunham</u>	Date/Time: <u>10/20/99 8:30</u>	Received By: <u>Rachela Jacobs</u>	Date/Time: <u>10/20/99 8:30</u>

If you have questions, please contact Tom at: Green Bay Madison Superior

Please FAX/send final report to Tom at the: Green Bay Madison Superior Lab.

Final report to be generated by En Chem: Green Bay Madison Superior

rev. 7/28/98 - woelfell/misc_inn/subcon.doc-word

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Superior, WI 54880
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1795 Industrial Drive
Green Bay, WI 54302
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1-800-7-ENCHEM

- Analytical Report -

Project Name : TWIN TOWN

Project Number :

Client: Environmental Consulting Services

WI DNR LAB ID : 816079330

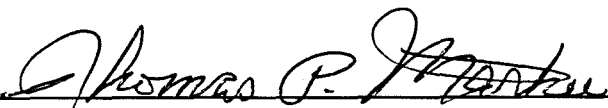
Report Date : 11/1/99

Sample No.	Field ID	Collection Date	Sample No.	Field ID	Collection Date
790629-001	P1	10/18/99			
790629-002	P2	10/18/99			

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

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

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


Approval Signature

11-1-99
Date

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Lab#:	TestGroupID:	Comment:
790629-001	GRO-S-ME	Late peaks were present outside of window.
790629-002	DRO-S	Hump was present late in chromatogram.

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- Analytical Report -

Project Name : TWIN TOWN
 Project Number : Client : Environmental Consulting Services
 Field ID : P1 Report Date : 10/28/99
 Lab Sample Number : 790629-001 Collection Date : 10/18/99
 WI DNR LAB ID : 816079330 Matrix Type : SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	97.9				%		10/21/99	SM2540G	SM2540G	*GB

Organic Results

GASOLINE RANGE ORGANICS - SOIL/METHANOL Prep Method: Wi MOD GRO Prep Date: 10/21/99 Analyst: *GB

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Gasoline Range Organics	7.0			2.6	mg/kg		10/25/99	Wi MOD GRO
Blank Spike	107				%Recov		10/25/99	Wi MOD GRO
Blank Spike Duplicate	118				%Recov		10/25/99	Wi MOD GRO
Blank	< 2.5			2.5	mg/kg		10/25/99	Wi MOD GRO

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

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- Analytical Report -

Project Name : TWIN TOWN
 Project Number : Client : Environmental Consulting Services
 Field ID : P2 Report Date : 10/28/99
 Lab Sample Number : 790629-002 Collection Date : 10/18/99
 WI DNR LAB ID : 816079330 Matrix Type : SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	96.3				%		10/21/99	SM2540G	SM2540G	*GB

Organic Results

Preservation Date : 10/20/99

DIESEL RANGE ORGANICS - SOIL Prep Method: Wi MOD DRO Prep Date: 10/21/99 Analyst: *GB

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
DIESEL RANGE ORGANICS	9.6			3.5	mg/kg		10/21/99	Wi MOD DRO
Blank spike	76				%Recov		10/21/99	Wi MOD DRO
Blank spike duplicate	74				%Recov		10/21/99	Wi MOD DRO
Blank	< 5.0			5.0	mg/kg		10/21/99	Wi MOD DRO

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