

Meridian Environmental Consulting, LLC

June 2, 2010

Pat Collins
Wisconsin Department of Natural Resources
890 Spruce St.
Baldwin, Wisconsin 54002

RECEIVED

JUN 03 2010

ERS DIVISION
STEVENS POINT

Subject: **Site Investigation Work Plan**
Corner Store
100 Tonnar St (Hwy. 25)
Ridgeland, Wisconsin
BRRTS No. 03-17-223007
Commerce No. 54763-96-2302
Meridian No. 05F761

Dear Pat:

Meridian Environmental Consulting, LLC (Meridian) has been retained by Jason Foster (site owner) to complete Site Investigation work at the above referenced site. This letter describes our Work Plan to complete this work.

The objectives of the Site Investigation are:

- 1) characterize current soil and ground water conditions
- 2) define the extent of impacted soil and ground water
- 3) prepare a Site Investigation Report summarizing our work and recommendations

BACKGROUND INFORMATION

The site is located in the Village of Ridgeland, Section 6, T31N, R12W, Dunn County, Wisconsin (Figure 1). The Village of Ridgeland is a small agricultural community located near the border of Dunn County and Barron County on Highway 25.

The landscape is hilly with limestone ridges and valleys underlain by sandstone (Eau Claire Sandstone). Surface drainage from Ridgeland is to the north into the South Fork of Lower Pine Creek. Based on well records from the site well and a nearby well (Appendix A), the site is underlain by approximately 45 feet of sandy soils overlying Eau Claire Sandstone bedrock.

Residents of the Village rely on private wells for their water supply. The wells tend to be relatively shallow (under 100 feet deep). Ground water is typically found less than 10 feet deep.

Based on surface topography and surface drainage, we speculate that ground water flow is northerly at the site.

The site is a small gasoline/convenience store located at 100 Tonnar Street (Highway 25) on the south edge of Ridgeland (Figure 2). The site has a building, single dispenser island, and one underground storage tank (4,000 gallon gasoline).

The current tank was installed in 1999 when two former tanks were removed. The former tanks were 1000 gallon tanks containing gasoline. The age of the former tanks is unknown. The Tank Closure Assessment report is provided in Appendix B. Soil samples were collected from beneath the tanks, piping, and dispenser island (Appendix B: Figure 2 and Table 1). The sample (P1) collected from beneath the north end of the dispenser contained 5,130 mg/kg GRO (gasoline range organics). This concentration indicated a petroleum release. The samples from beneath the tanks did not contain GRO.

The petroleum release was reported to the Wisconsin Department of Natural Resources June 21, 1999. No further work was completed until April 2008 when Cedar Corporation installed a single soil boring in approximately the same location as the Closure Assessment sample P1 (above). Their report is provided in Appendix C. The boring encountered sand to a depth of 8 feet where ground water was encountered. Petroleum impacts were measured in soil samples and a ground water sample.

No further work has been completed at the property.

PLANNED WORK

Based on the information presented above, the site is underlain by sandy soils to at least 40 feet below grade. We expect ground water to be found at about 8 feet depth with a northerly flow direction. Our Work Plan is based on this initial analysis. The Scope will change as needed as more information becomes available during the Site Investigation.

Soil Investigation

We plan to install four soil borings in and around the former tank basin to characterize the soil conditions and determine the horizontal extent of impacted soil. Figure 3 illustrates the planned locations for these borings. The borings will be installed with a Geoprobe to the water table (about 10 feet). Soil samples will be collected continuously and screened with a PID. Selected samples of soil (3 feet and 7 feet) will be collected from the unsaturated zone and analyzed for PVOC (petroleum volatile organic chemicals). More soil borings may be needed to define the extent of impacted soil.

Monitoring Wells

We plan to install monitoring wells in the locations shown on Figure 3 to evaluate the ground water quality and determine ground water flow direction. Based on Cedar's report (Appendix C), we expect to encounter ground water at a depth of about 8 feet. Therefore, we are planning on installing the monitoring wells to a depth of about 15 feet. The wells will be 2-inch dia. PVC with 10 feet long screens which intersect the water table.

We will collect ground water samples and analyze them for VOC (first round only; subsequent sampling will be for PVOC+Naphthalene). The well locations and elevations will be surveyed so that ground water flow can be determined.

Additional monitoring wells will be installed as needed to determine the extent of impacted ground water. A piezometer may be necessary in the future.

We will sample the onsite well and analyze it for PVOC+naphthalene.

Potable Well Survey

The site is on public sewer with a private well. A potable well survey will be conducted to locate other potable wells in the vicinity of the site. Well construction logs will be obtained if available. The well locations will be shown on a map relative to the site. We will evaluate the potential for impacts to these wells from the site.

Reporting

When the Site Investigation has been completed or before \$20,000 in costs are incurred, a Soil and Ground Water Investigation report will be prepared which documents the data collected and includes our recommendations for further work.

SITE HEALTH AND SAFETY PLAN

Appendix D contains the Site Health and Safety Plan. A Safety Meeting is conducted onsite prior to beginning any field work. The Site Health and Safety Plan is kept onsite during the field work.

FIELD PROCEDURES

Appendix E contains general field procedures that are used to complete Site Investigations. Alterations to these procedures will be conducted if necessary for site-specific objectives.

SCHEDULE

We plan to begin work immediately. The initial soil borings are scheduled to be installed in early June 2010. Followup work will be conducted based on the findings of the initial phase of work.

Please contact us with any comments or questions.

Sincerely,

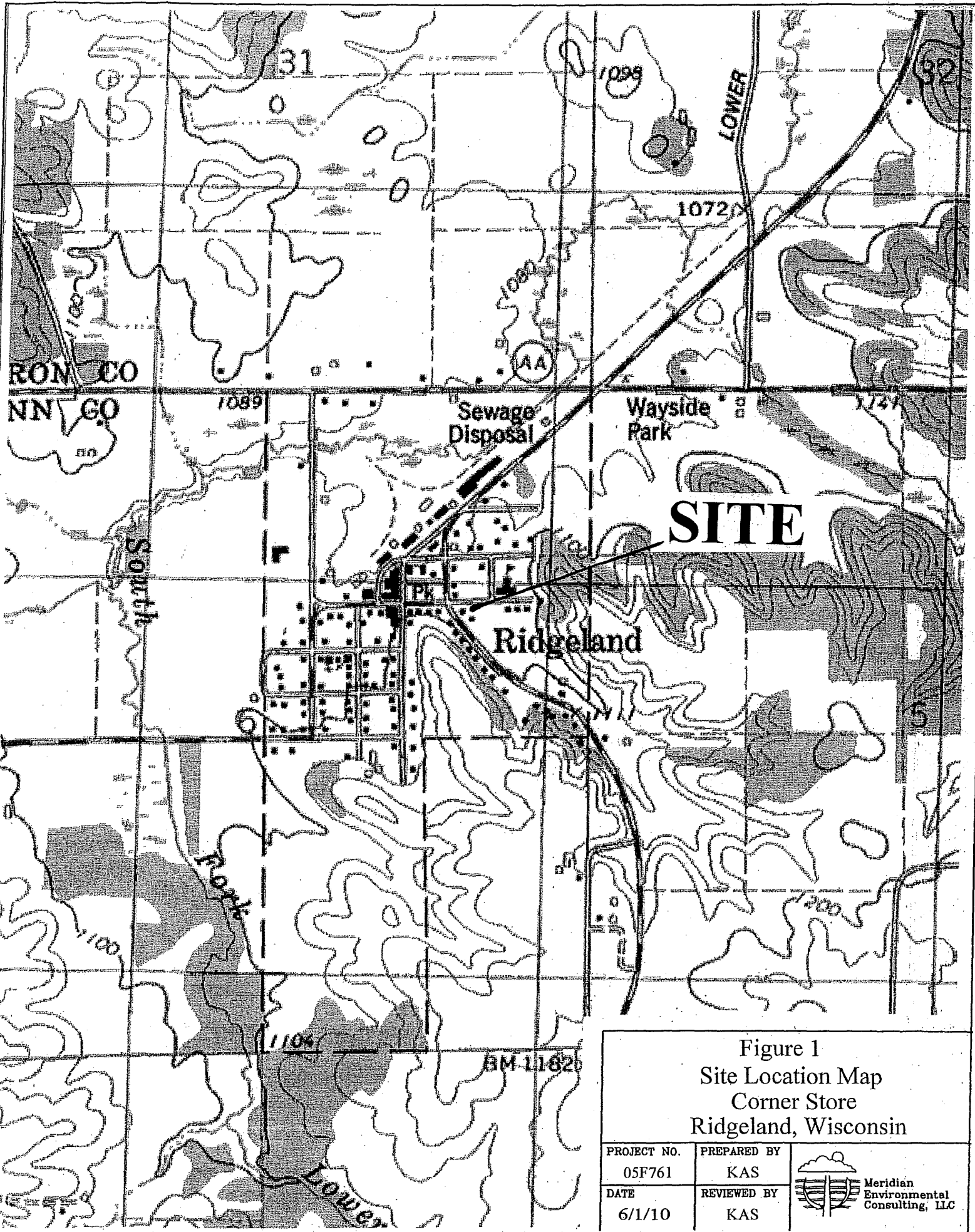
MERIDIAN ENVIRONMENTAL CONSULTING, LLC



Kenneth Shimko, PG
Project Manager

C: Jason Foster- site owner
Tim Zeichert - Commerce

FIGURES



SITE

Figure 1
 Site Location Map
 Corner Store
 Ridgeland, Wisconsin

PROJECT NO.	PREPARED BY
05F761	KAS
DATE	REVIEWED BY
6/1/10	KAS



residential

E Main Street

private well

pump island

Corner Store

former tanks (two)

current tank

Auto Repair & Sales

residential

Tommar Street (Highway 25)

approximate property boundary

- Closure Assessment Samples (1999)
- Cedar Corp. Boring (2008)

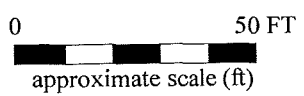

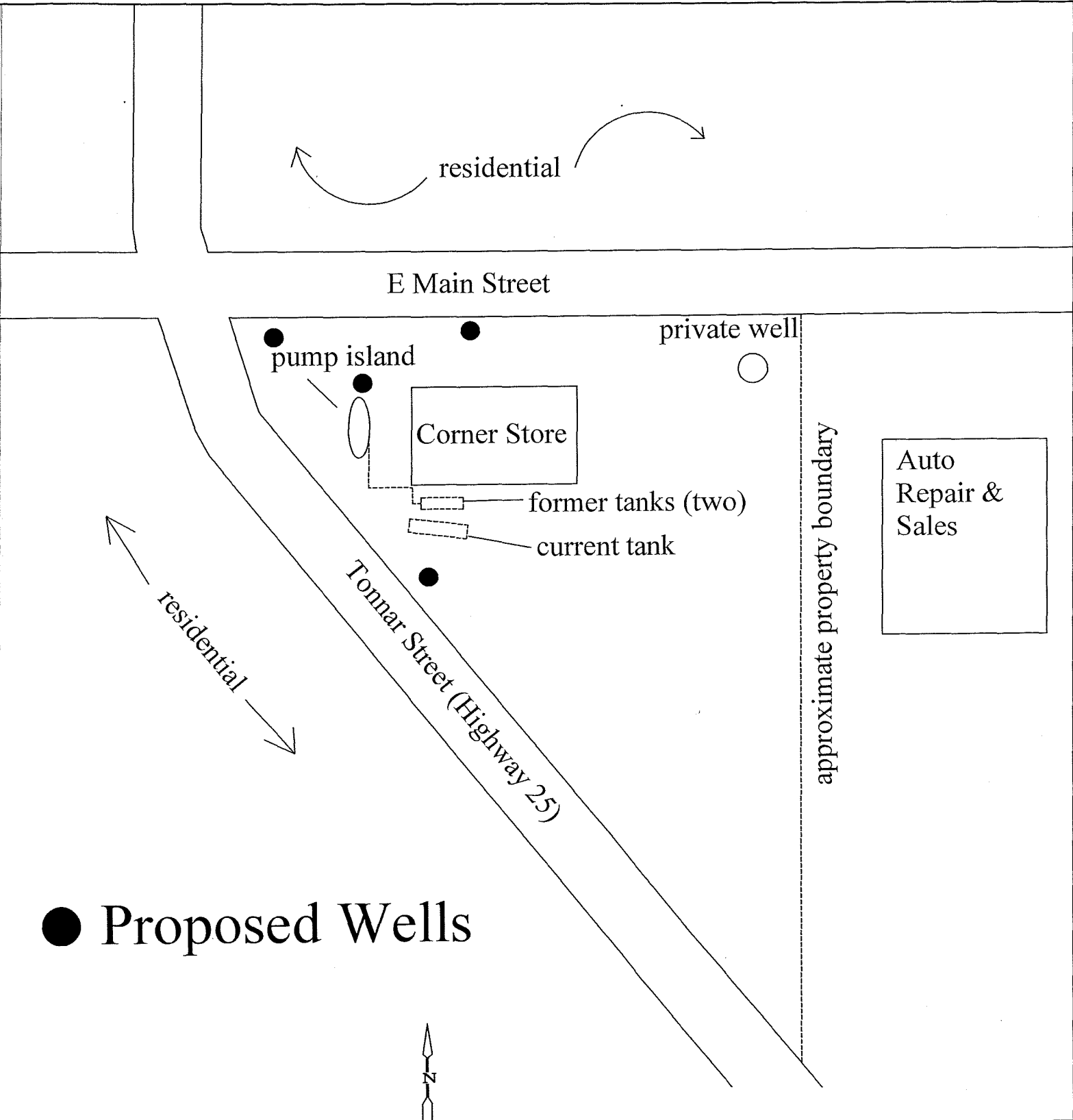


Figure 2
Site Map
Corner Store
Ridgeland, Wisconsin

PROJECT NO. 05F761	PREPARED BY KAS	 Meridian Environmental Consulting, LLC
DATE 6/1/10	REVIEWED BY KAS	



● Proposed Wells

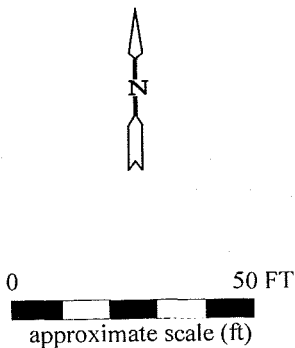



Figure 3
Proposed Wells
Corner Store
Ridgeland, Wisconsin

PROJECT NO. 05F761	PREPARED BY KAS	 Meridian Environmental Consulting, LLC
DATE 6/1/10	REVIEWED BY KAS	

APPENDIX A

WELL LOGS

WISCONSIN UNIQUE WELL NUMBER
Source: WELL CONSTRUCTION **MY574**

State of Wi-Private Water Systems-DG/2 Form 3300-77A
 Department Of Natural Resources, Box 7921 (Rev 02/02)bw
 Madison, WI 53707

Property Owner **MOCH, CRAIG/THE CORNER STORE** Telephone Number **715-949-1230**
 Mailing Address **HWY 25**
 City **RIDGELAND** State **WI** Zip Code **54763**
 County of Well Location **17 DUNN** Co Well Permit No **W** Well Completion Date **May 3, 1999**

1. Well Location
 T=Town C=City V=Village
T of WILSON Fire#
 Street Address or Road Name and Number
HWY 25
 Subdivision Name Lot# Block#

Well Constructor **DAVID M BEECROFT** License # **6242** Facility ID (Public) **617055120**
 Address **3142 15TH ST** Public Well Plan Approval#
 City **FREDERIC** State **WI** Zip Code **54837** Date Of Approval
 Hicap Permanent Well # Common Well # Specific Capacity **.5** gpm/ft

Govt Lot or **SW 1/4 of NE 1/4 of Section 6 T 31 N;R 12 W**
 Latitude Deg. **45** Min. **12.2059**
 Longitude Deg **91** Min. **53.6913**

3. Well Serves # of homes and or **GAS STATION** High Capacity: Well? **N** Property? **N**
N (eg: barn, restaurant, church, school, industry, etc.)

2. Well Type **2** (See item 12 below) Lat/Long Method **GPS003**
 1=New 2=Replacement 3=Reconstruction
 of previous unique well # **GV393** constructed in _____
 Reason for replaced or reconstructed Well?
OLD WELL TO CLOSE TO FUEL
1 1=Drilled 2=Driven Point 3=Jetted 4=Other

4. Is the well located upslope or sideslope and not downslope from any contamination sources, including those on neighboring properties? **Y**
 Well located in floodplain? **N**
 Distance in feet from well to nearest: (including proposed)

1. Landfill	9. Downspout/ Yard Hydrant	17. Wastewater Sump
25 2. Building Overhang	10. Privy	18. Paved Animal Barn Pen
3. 1=Septic 2= Holding Tank	11. Foundation Drain to Clearwater	19. Animal Yard or Shelter
4. Sewage Absorption Unit	12. Foundation Drain to Sewer	20. Silo
5. Nonconforming Pit	13. Building Drain	21. Barn Gutter
6. Buried Home Heating Oil Tank	1=Cast Iron or Plastic 2=Other	22. Manure Pipe 1=Gravity 2=Pressure
105 7. Buried Petroleum Tank	50 14. Building Sewer 2 1=Gravity 2=Pressure	1=Cast iron or Plastic 2=Other
8. 1=Shoreline 2= Swimming Pool	2 1=Cast Iron or Plastic 2=Other	23. Other manure Storage
	15. Collector Sewer: ___ units ___ in. diam.	24. Ditch
	16. Clearwater Sump	12 25. Other NR 812 Waste Source

5. Drillhole Dimensions and Construction Method

From (ft)	To (ft)	Upper Enlarged Drillhole	Lower Open Bedrock
6.0	surface	39	
		1. Rotary - Mud Circulation	
		2. Rotary - Air	
		3. Rotary - Air and Foam	
		4. Drill-Through Casing Hammer	
		5. Reverse Rotary	
		X 6. Cable-tool Bit 6 in. dia	
		7. Temp. Outer Casing ___ in. dia. ___ depth ft. Removed?	
		Other	

8. Geology

Geology Codes	Geology Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
C	CLAY	0	3
S	SAND	3	25
Y	SAND & GRAVEL	25	39

6. Casing Liner Screen

Dia. (in.)	Material, Weight, Specification	From (ft.)	To (ft.)
6.0	IPSCO BLACK STEEL ASTM A-53 18.97 .280 WALL WELDED	surface	34
Dia. (in.)	Screen type, material & slot size	From	To
4.0	TELESCOPE STAINLESS 20 SLOT	34	39

9. Static Water Level
4.0 feet **B** ground surface
 A=Above B=Below

11. Well Is: 24 in. A Grade
 A=Above B=Below
 Developed? **Y**
 Disinfected? **Y**
 Capped? **Y**

10. Pump Test
 Pumping level **24.0** ft. below surface
 Pumping at **10.0** GP M **1.0** Hrs

7. Grout or Other Sealing Material

Method	From (ft.)	To (ft.)	# Sacks Cement
Kind of Sealing Material	surface		

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property? **Y**
 If no, explain

13. Initials of Well Constructor or Supervisory Driller **DMB** Date Signed **5/3/99**
 Initials of Drill Rig Operator (Mandatory unless same as above) Date Signed

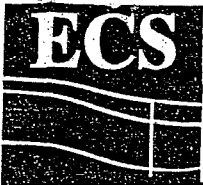
WELL NO. 2, SANNA DAIRIES, RIDGELAND, WIS.
 Mead, Ward and Hunt, Engineers Milaeger Well Drilling Co.,
 NW, SE, NW, NE, NE $\frac{1}{4}$ sec. 6, T. 31 N., R. 12 W. Contractors, 1946
 Samples examined by F. T. Thwaites, Nos. 127059-127126
 1075' E T M

D R I	45	0-20	20		Drift, no samples	18" water 24" pipe 16" pipe cemented 46'
		20-45	25		Gravel, glacial, very sandy	
E A U C L A I R E	245	45-65	20		Sandstone, silty to fine, light gray, dolomitic	51' 15" hole 200' 12" hole
		65-90	25		Sandstone, medium to silty, light gray	
		90-100	10		Sandstone, medium-coarse to fine, lt. gray	
		100-110	10		Sandstone, coarse to medium, very lt. gray	
		110-140	30		Sandstone, medium-coarse to fine, light gray	
		140-160	20		Sandstone, medium to fine, gray	
		160-180	20		Sandstone, silty to fine, gray	
		180-195	15		Shale, silty, gray	
		195-205	10		Sandstone, silty to medium, gray	
		205-210	5		Shale, gray	
		210-230	20		Sandstone, medium to silty, light gray	
		230-240	10		Siltstone, sandy, light gray	
		240-250	10		Sandstone, silty to medium, light gray	
		250-270	20		Sandstone, medium to fine, gray	
		270-275	5		Sandstone, coarse to medium, gray	
275-285	10		Sandstone, medium to silty, light gray			
285-290	5		Shale, silty, light gray			
M T S	70	290-315	25		Sandstone, fine to coarse, white	
		315-320	5		Sandstone, silty to fine, white	
		320-335	15		Sandstone, fine to medium, white	
		335-360	25		Sandstone, medium to fine, light gray	

Formations: Drift; Eau Claire; Mt. Simon
 Tested at 800 g.p.m. specific capacity = 14 g.p.m./ft.

APPENDIX B

TANK CLOSURE ASSESSMENT REPORT



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

June 24, 1999

Re: Gerry's Corner Store
Tank Closure Assessment
Ridgeland, Wisconsin
ECS No. GERRY991

Pat Collins
Wisconsin Department of Natural Resources
Suite 104, 990 Hillcrest
Baldwin, WI 54002

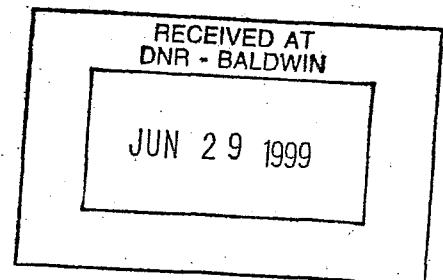
Dear Pat:

On behalf of Gerry's Corner Store, Environmental Consulting Services, LLC (ECS) is submitting this report titled "Tank Closure Assessment", dated June 1999. Two 1,000 gallon gasoline USTs were removed from the above referenced site in May 1998. Analytical results indicated that two soil samples contained gasoline range organic (GRO) compounds above the WDNR action level of 10 ppm. Samples P1 and P2 collected near the dispenser island contained GRO at 5,130 and 45.3 ppm respectively. 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

Pat Collins
Wisconsin Department of Natural Resources
Suite 104, 990 Hillcrest
Baldwin, WI 54002

1

Craig Moen
Gerry's Corner Store
102 Highway 25
Ridgeland, Wisconsin 54763

Tank Closure Assessment

Gerry's Corner Store
Ridgeland, Wisconsin

Prepared for:
Gerry's Corner 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 6-25-99
David McDaniel Certification Number Date
Certified Site Assessor

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Figure 1 Site Location Map
Figure 2 Site Plan

List of Appendices

Appendix A Project Personnel
Appendix B Closure Documentation
Appendix C Standard Operating Procedures
Appendix D Laboratory Reports

Vendor	Total Spent	Amount Remaining
	\$ 1,744.08	\$ 134.16
	\$ 27.14	\$ (27.14)
	\$ 1,163.72	\$ -
	\$ -	\$ -
	\$ -	\$ -
	\$ 126.99	\$ -
	\$ -	\$ -
	\$ -	\$ 38.94
	\$ 600.90	\$ 0.00
	\$ 266.47	\$ -
	\$ -	\$ -
	\$ 935.00	\$ 27.71
	\$ -	\$ -
	\$ -	\$ -
	\$ -	\$ -
	\$ 408.08	\$ -
	\$ -	\$ -
	\$ -	\$ -
	\$ -	\$ -
	\$ 191.76	\$ -
	\$ 467.90	\$ -
	\$ -	\$ -
	\$ 1,496.00	\$ -
	\$ -	\$ -
	\$ -	\$ -
	\$ -	\$ -
	\$ 250.60	\$ -
	\$ 85.00	\$ -
	\$ -	\$ -
	\$ 1,605.76	\$ -
	\$ 410.01	\$ 136.67
	\$ 508.16	\$ -
	\$ -	\$ -
	\$ -	\$ -
	\$ 892.37	\$ -
	\$ 750.76	\$ -
	\$ 306.00	\$ -
	\$ 188.31	\$ -
	\$ 150.30	\$ -
	\$ -	\$ 29.52
	\$ -	\$ -
	\$ 227.92	\$ -
	\$ -	\$ -
	\$ -	\$ -
	\$ 105.28	\$ -
	\$ -	\$ -
	\$ 730.08	\$ 56.16
	\$ -	\$ -
	\$ 353.60	\$ -
	\$ -	\$ 396.02

In July put on Nov 08 budget
\$ 14,703.10

Tank Closure Assessment

Gerry's Corner Store

1.0 Introduction

This report describes the tank closure assessment conducted by Environmental Consulting Services, LLC (ECS) at Gerry's Corner Store in the Village of Ridgeland, Wisconsin. The gasoline underground storage tank (UST) system was upgraded and tanks were removed in May 1999. The purpose of the tank closure assessment was to determine if obvious petroleum releases had occurred as a result of petroleum storage or usage at the location of the UST system. Tanks were removed and an upgraded system was installed prior to arrival onsite by ECS. Tank closure information and former tank locations described in this report are based on information provided by the tank removal contractor and personnel of Gerry's Corner Store.

2.0 Site Background

The site is located at 102 STH 25 in the SE 1/4 of the NE 1/4 of Section 6, T31N, R12W as shown in Figure 1, "Site Location Map." The site is bounded by STH 25 to the west. Groundwater is reportedly located at a depth of less than 15 feet. Regional groundwater maps indicate the groundwater flow to be north-northwest.

The site is occupied by a gas station and grocery store. The pump island is located west of the store, and tanks were located south of the building. The site layout is shown on Figure 2, "Site Plan." Tanks were replaced with two new USTs that are located immediately south of the former UST locations.

3.0 Tank Closure Assessment

The USTs were removed by McDonald Petroleum Service on May 20, 1999. Personnel involved with tank closure at the site are listed in Appendix A, "Project Personnel." The tank closure checklist is included in Appendix B, "Closure Documentation." Prior to excavation of the USTs, oxygen content and explosive levels in the interior of the tanks were monitored to determine if an explosion hazard was present. Soil was excavated to expose the tops of the tanks. The tanks were removed and cleaned on site and the tank excavation was backfilled to the original surface elevation with clean sand following tank closure.

ECS collected assessment samples using a hand auger on May 27, 1999. Weather conditions during the assessment included temperatures ranging from approximately 65 to 75 degrees F. No precipitation was noted during completion of the tank closure assessment.

ECS observed slight odors in sample P1. Remaining samples contained no obvious odors. Samples were collected beneath both ends of the USTs, beneath the pump island and along piping. 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 US Filter/Enviroscan for analysis of GRO.

Soil consisted of brown silty sand with some gravel. Hand auger borings extended to a maximum depth of about six feet. Groundwater, was not encountered in the borings.

4.0 Results

Samples collected at the dispenser (P1) and along piping (P2) contained GRO at 5,130 and 45.3 ppm respectively. Samples collected at the USTs (T1-T4) contained no detectable concentrations of GRO compounds. 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 cleaning, scrap metal including the tank

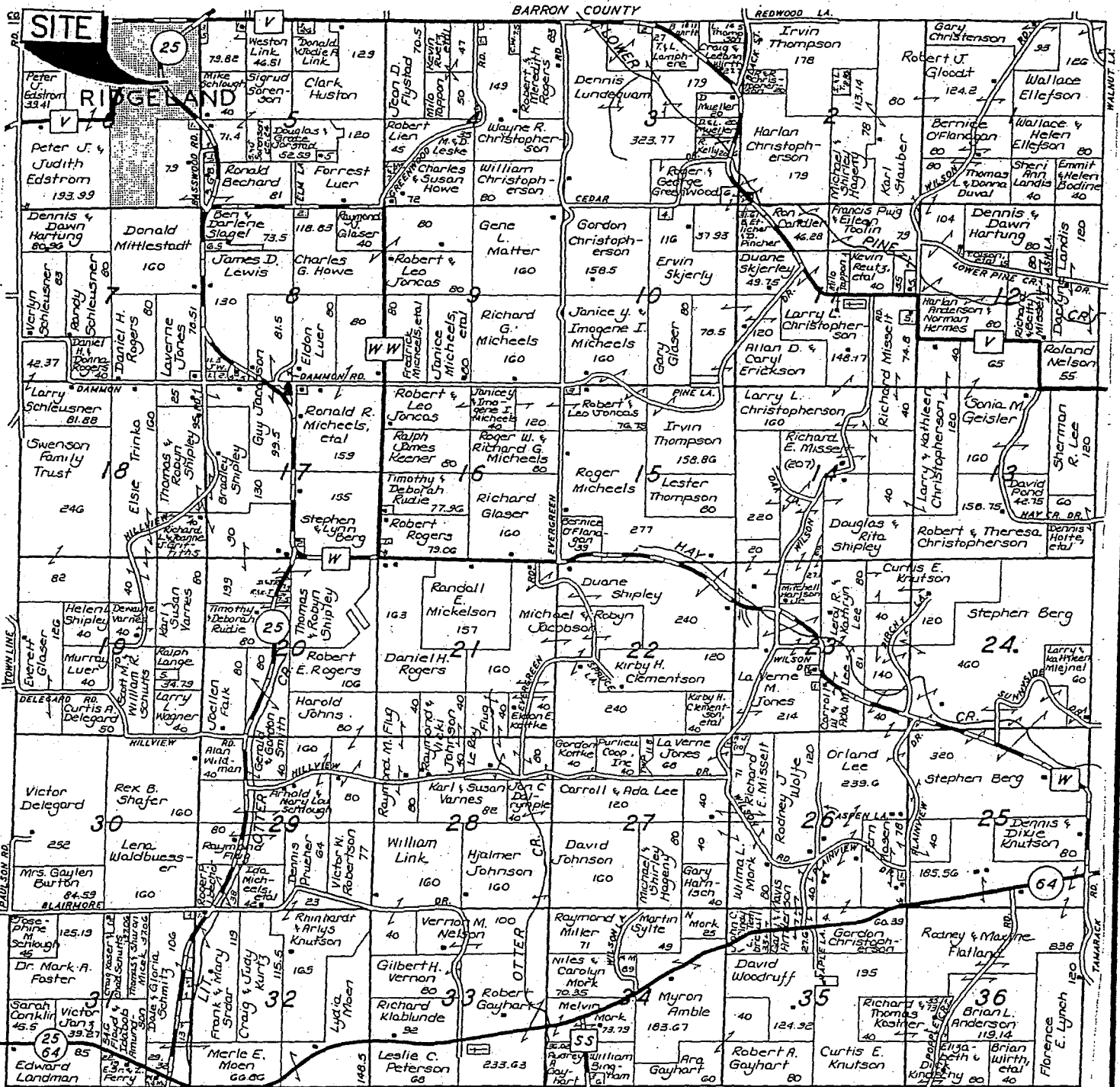
and piping was removed from the site by McDonald Petroleum and transported to Max Phillips & Sons in Eau Claire, Wisconsin.

6.0 Conclusions and Recommendations

The tank closure assessment identified contaminated soil adjacent to the dispenser island at concentrations exceeding the WDNR action level. Based on these results, Wisconsin Department of Natural Resources personnel should be notified that a release has occurred. A site investigation will be required by the WDNR to determine the extent of contamination.

WILSON

T. 31N. - R. 12W.



© 1990 Rockford Map Publs., Inc.

Dunn County, Wis.

ECS

TANK CLOSURE ASSESSMENT
GERRY'S CORNER STORE

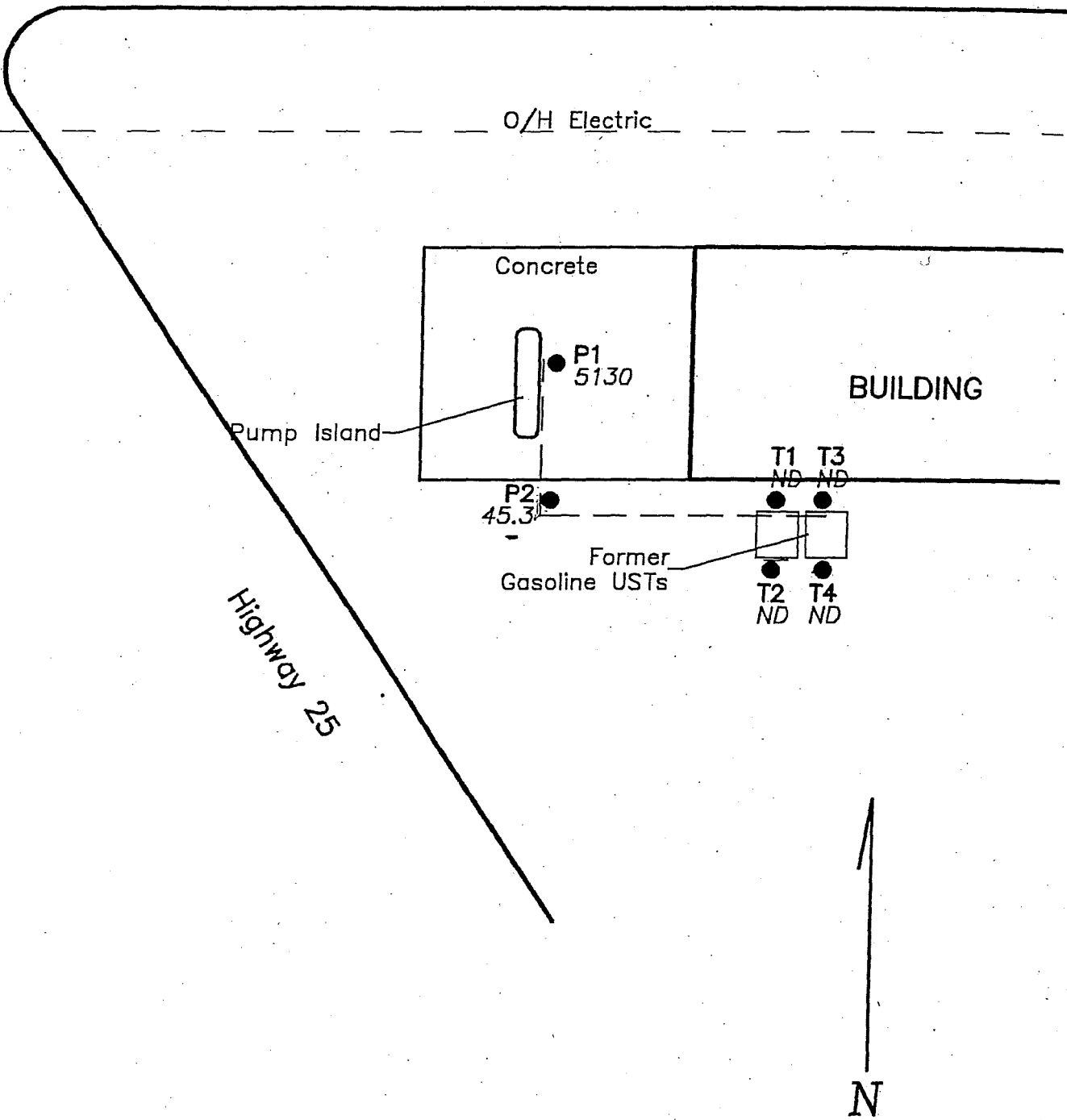
FIGURE 1
SITE LOCATION

PROJ. NO.
GERRY991
DATE
6/1/99

Table 1
Analytical Results

Sample ID	Depth(ft)	GRO (mg/kg)
P1	3	5,130
P2	3	45.3
T1	6	ND
T2	6	ND
T3	6	ND
T4	6	ND

ND - Indicates compounds not detected above laboratory detection limits



LEGEND

T1
ND ● Tank Assessment Sample Location
With GRO Results (mg/kg)

0 10 20
Approximate Scale (FT)

ECS

TANK CLOSURE ASSESSMENT
GERRY'S CORNER STORE

FIGURE 2
SITE PLAN

PROJ. NO.
GERRY991
DATE
6/24/99

-
1. **Owner**
Gerry's Corner Store
102 STH 25
Ridgeland, Wisconsin 54763
Contact: Craig Moen
Phone: (715)949-1230

 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.5504)
Phone: (715) 833-7671

 5. **Analytical Laboratory**
US Filter/Enviroscan
301 West Military Road
Rothschild, Wisconsin, WI 54474
Wisconsin Lab Certification No. 737053130
Phone: (800) 338-7226

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

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. Closed - Tank Removed
- 5. 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:

Ridgeland / Wilson

A. IDENTIFICATION: (Please Print)

1. Tank Site Name: Gerry's Corner Store Site Address: 102 Hwy 25 Site Telephone No.: 1757949-1230

City Village Town of: _____ State: WIS Zip Code: 54763 County: Dunn

2. Owner Name (mail sent here unless indicated otherwise in #3 below): Craig Moen Owner Mailing Address (mail sent here unless indicated otherwise in #3): 102 Hwy 25

City Village Town of: _____ State: WIS Zip Code: 54763 County: Dunn

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): _____ 5. Tank Capacity (gallons): 1000 6. Tank Manufacturer's Name (if known): _____

B. TYPE OF USER (check one):

- 1. Gas Station
- 2. Bulk Storage
- 3. Utility
- 4. Mercantile
- 5. Industrial
- 6. 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. 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 No

Overfill Protection Provided? Yes No If yes, identify type: _____ Spill Containment? Yes 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. Bare Steel
- 2. Cathodically Protected and Coated or Wrapped Steel (A. Sacrificial Anodes or B. Impressed Current)
- 3. Coated Steel
- 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 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. Nat'l Std 2. UL 3. Other: _____ Double Walled: Yes No

E. TANK CONTENTS

- 1. Diesel
- 2. Leaded
- 3. Unleaded
- 4. 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): 5-10-99 Has a site assessment been completed? (see reverse side for details) Yes No

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): Craig Moen Indicate Whether: Owner or Operator
Signature of Owner or Operator: Craig Moen Date Signed: 5-13-99

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

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

Fire Department Providing Fire Coverage Where Tank Located:

Ridgeland/Wilson

A. IDENTIFICATION: (Please Print)

1. Tank Site Name

Berry's Corner Store

Site Address

102 Hwy 25

Site Telephone No.

(715) 949-1230

City Village Town of: State Zip Code County

Ridgeland WIS 54763 Dunn

2. Owner Name (mail sent here unless indicated otherwise in #3 below)

Craig Moen

Owner Mailing Address (mail sent here unless indicated otherwise in #3)

102 Hwy 25

City Village Town of: State Zip Code County

Ridgeland WIS 54763 Dunn

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)

5. Tank Capacity (gallons)

1000

6. Tank Manufacturer's Name (if known)

B. TYPE OF USER (check one):

- 1. Gas Station
- 2. Bulk Storage
- 3. Utility
- 4. Mercantile
- 5. Industrial
- 6. 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. 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 No

Overfill Protection Provided? Yes No If yes, identify type:

Spill Containment? Yes 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. Bare Steel
- 2. Cathodically Protected and Coated or Wrapped Steel (A. Sacrificial Anodes or B. Impressed Current)
- 3. Coated Steel
- 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 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. Nat'l Std 2. UL 3. Other:

Double Walled: Yes No

E. TANK CONTENTS

- 1. Diesel
- 2. Leaded
- 3. Unleaded
- 4. 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.

Tank Closed, Give Date (mo/day/yr):

5-10-99

Has a site assessment been completed? (see reverse side for details)

Yes No

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):

Craig Moen

Indicate Whether:

Owner or Operator

Signature of Owner or Operator:

Date Signed:

5-13-99

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 Harrys Corner Store		2. Owner Name Craig Moen	
Site Street Address (not P.O. Box) 102 Hwy 25		Owner Street Address 102 Hwy 25	
<input type="checkbox"/> City Ridgeland	<input checked="" type="checkbox"/> Village	<input type="checkbox"/> City Ridgeland	<input checked="" type="checkbox"/> Village
State WI		State WI	
Zip Code 54763	County Dunn	Zip Code 54763	County Dunn
3. Closure Company Name (Print) McDonalds Petroleum		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. 382479	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1000	03	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
2. 382478	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1000	03	<input checked="" 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-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.

B. TEMPORARILY OUT OF SERVICE

	Remover Verified	Inspector Verified	NA
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 checked="" 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 checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input 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 checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input 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 checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
7. Tank openings temporarily plugged so vapors exit through vent.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
8. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section F.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
9. Tank removed from excavation after PURGING/INERTING; placed on level ground and blocked to prevent movement.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
10. Tank cleaned before being removed from site.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input 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 checked="" type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input 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 checked="" type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input 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). | | | |
| 2. Piping disconnected from tank and removed. | <input 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 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 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 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 type="checkbox"/> |
| 7. Tank openings temporarily plugged so vapors exit through vent. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section F. | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. Tank properly cleaned to remove all sludge and residue. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input 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 type="checkbox"/> |
| 11. Vent line disconnected or removed. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input 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 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 | | | |

F. METHOD OF ACHIEVING 10% LEVEL DESCRIPTION

- Educator Or Diffused Air Blower
 Educator 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 (CO₂ or N₂). **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

Pat McDonald
Remover Name (print)

Pat McDonald
Remover Signature

41295 5-20-99
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

CEDAR CORPORATION REPORT



April 30, 2008

WDNR
Attn: Pat Collins
890 Spruce Street
Baldwin, WI 54002

SUBJECT: Update of soil and groundwater sampling completed for the Corner Store site.
PECFA ID #54763-96-2302
BRRTS #03-17-223007

Dear Mr. Collins:

The following letter is a summary of the work completed for the Corner Store Site located at 100 Tonnar Street, Ridgeland, WI on April 1, 2008. The amended scope of the project consisted of:

1. Conduct one soil boring sampling at depths of 4-5 feet below surface and just above the water table.
2. Collect one groundwater sample from this same soil boring
3. Prepare a letter report including, as attachments, a map showing the boring location, the soil boring log for the boring completed on the property, the laboratory analytical reports for the soil samples collected from the boring, a synopsis of the observation during the proceedings, if necessary, and a brief discussion of the results.

Sampling Event

The Corner Store site in Ridgeland, WI was sampled on April 1, 2008. The soil boring was completed by Geiss Soils & Samples, LLC using a direct push soil probe (geoprobe). A location map of the boring and a log of the boring are attached. Two soil samples were taken from this boring; one at 4-5 feet (P-3 4-5') and the other just above the groundwater at 7 feet (P-3 7'). A water sample was also analyzed from this boring as well. The analytical reports for these samples are attached. All soil and water samples were sent to a DNR Certified Laboratory (Test America, Watertown, WI certification number – 128053530) for analysis. All shipping, sampling, and handling protocols as required by EPA were followed.

Soil Samples

The soil samples results are summarized on Table 1. These results indicate that the concentration for benzene, ethylbenzene, toluene, and xylenes exceed the regulatory acceptable levels (Wis. Adm. Code NR720 Table 1 and 2) in both samples.

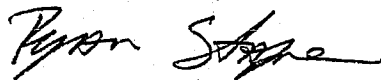
Groundwater Sample

A groundwater sample was collected from 8 feet below surface through the push probe sampling device using a peristaltic pump. The ground water sample results are included on Table 2. The analytical report indicates that the regulatory acceptable concentrations for dissolved petroleum contamination in groundwater have been exceeded for benzene and toluene (Wis. Adm. Code NR 140 Table 1, Enforcement Standard) and ethylbenzene, 1,2,4 and 1,3,5-trimethylbenzenes (Wis. Adm. Code NR 140 Table 1, Preventative Action Limit).

This scope of work has been completed as requested by Pat Collins of the Wisconsin Department of Natural Resources. Please do not hesitate to contact me or Scott McCurdy at 800-472-7372 if we can be of service or answer questions on this project.

Yours truly,

CEDAR CORPORATION

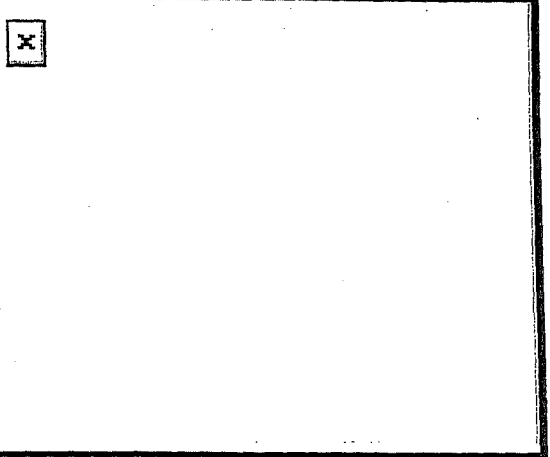
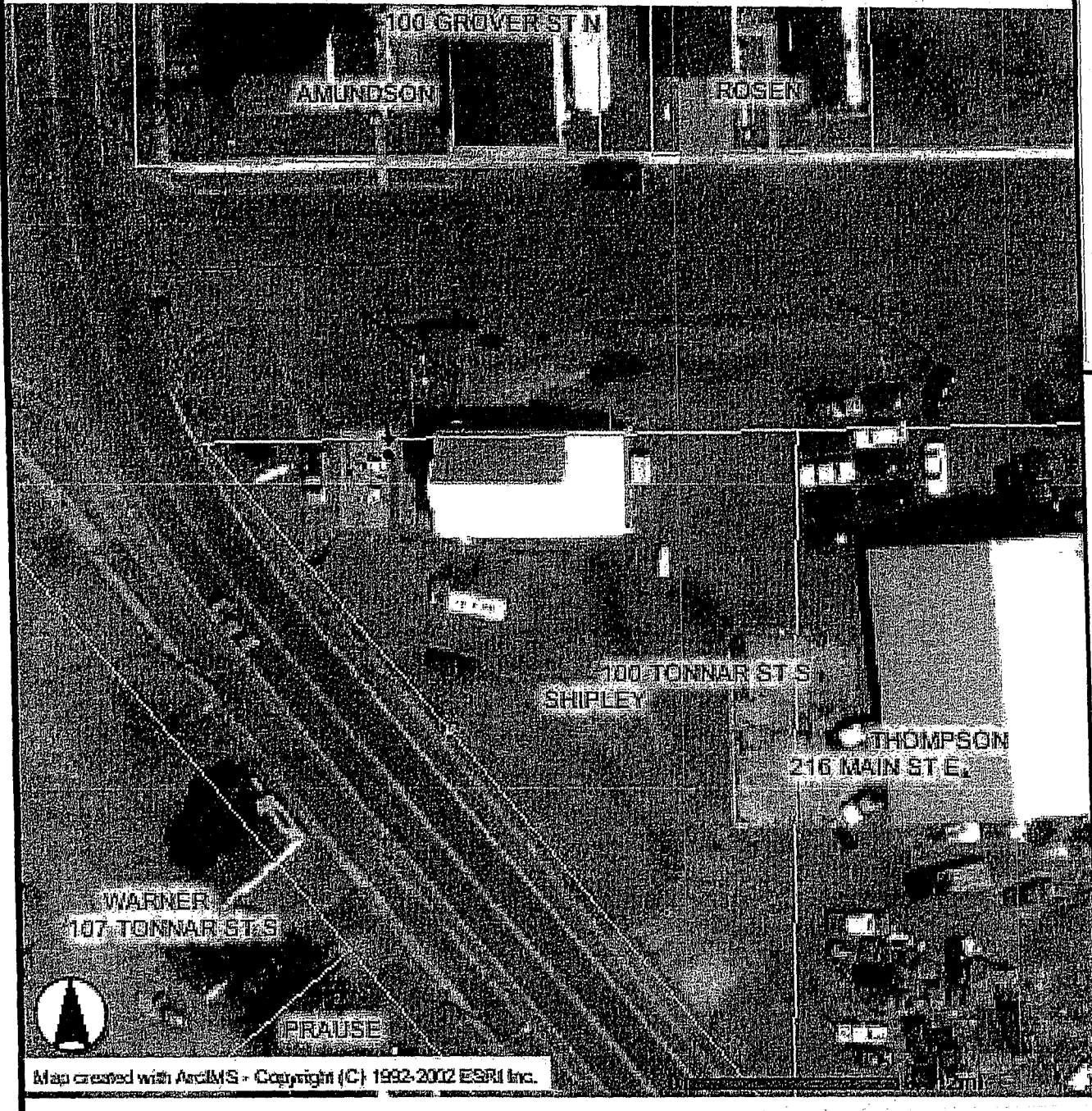


Ryan Stafne
Environmental Specialist











Enclosure

cc: Brad Shipley, N13544 530th Street, Ridgeland, WI 54763
Jason Foster, 102 Tonnar Street, Ridgeland, WI 54763

ArcIMS HTML Viewer Map



Legend

-  All_roads
-  Federal Interstate
-  Federal
-  Interstate
-  City_of_Manomonia
-  Hydro Line
-  Hydro Polygon
-  2007Address
-  2007Parcal
-  2004 6" BW



Map created with ArcIMS - Copyright (C) 1992-2002 ESRI Inc.

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Page 1 of 1

Facility/Project Name Genny's Corner Store			License/Permit/Monitoring Number		Boring Number P-3		
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Jeff Last Name: Annis Firm: Geiss Soils			Date Drilling Started 04 01 2008 M M D D Y Y Y Y		Date Drilling Completed 04 01 2008 M M D D Y Y Y Y		
WI Unique Well No.			DNR Well ID No.		Common Well Name		
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane <u> </u> N, <u> </u> E S/C/N			Final Static Water Level Feet MSL		Surface Elevation Feet MSL		
SE 1/4 of NE 1/4 of Section 06 T 31 N, R 12 E W			Lat <u> </u> Long <u> </u>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID		County Dunn		DNR County Code 17		Civil Town/City/Village Ridgeland, WI	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Soil Properties					RQD/ Comments								
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200									
1	36"			4" concrete																		
	34"			Blk - Brn Sandy Silt																	Pet odor	
			5	Brown sand																		Pet odor
				▼ H ₂ O @ 8'																		
			10																			
			15																			
			20																			
			25																			
			30																			

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

[Handwritten Signature]

Firm

Cedar
corporation

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this report is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the form should be sent.

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
CORNER STORE
RIDGELAND, WI

				Results reported in ug/Kg						
				Benzene	E - Benzene	MTBE	Toluene	1,2,4 TMB	1,3,5 TMB	Xylenes
Wis Adm. Code NR720, Table 1 & 2, Residual Contaminant Levels				5.5	2,900	NS	1,500	NS	NS	4,100
Wis Adm. Code NR746.06 Table 1, Residual Petroleum Product				8,500	4,600	NS	38,000	83,000	11,000	42,000
Wis Adm. Code NR746.06 Table 2, Direct Contact				1,100	NS	NS	NS	NS	NS	NS
Sample Location	Sample Depth	Sample Date	Laboratory ID							
P-3	4-5'	10/25/2007	WRD0042-01	120,000	190,000	<2700	730,000	350,000	99,000	980,000
P-3	7'	10/25/2007	WRD0042-02	12,000	40,000	<550	110,000	100,000	28,000	220,000

MTBE = Methyl tert butyl ether
 TMB = Trimethylbenzene
 E-Benzene = Ethylbenzene

ug/Kg=ppb=parts per billion
 NS = No Standard Established
 Values in Bold Typeface exceed listed table value

TABLE 2
 PVOC - GROUNDWATER ANALYTICAL RESULTS
 CORNER STORE
 RIDGELAND, WI

Sample Location	Sample Date	Benzene (ug/L)	Ethylbenzene (ppb)	MTBE (ppb)	Toluene (ppb)	1,2,4-TMB (ppb)	1,3,5-TMB (ppb)	Xylenes (ppb)
ES		5	700	60	1,000	480	480	10,000
PAL		0.5	140	12	200	96	96	1,000
P-3	04/01/08	1900	500	<9.2	3200	430	120	2700

ug/L = micrograms per liter = ppb = parts per billion

Italic Numbers indicate a concentration above PAL outlined in NR 140.10

Bold Numbers indicate a concentration above ES outlined in NR

April 09, 2008

Client: CEDAR CORPORATION
604 Wilson Avenue
Menomonie, WI 54751

Work Order: WRD0042
Project Name: Shipley-Corner Store
Project Number: Ridgeland, WI

Attn: Mr. Scott McCurdy

Date Received: 04/02/08

An executed copy of the chain of custody is also included as an addendum to this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-833-7036

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
P-3 4-5'	WRD0042-01	04/01/08 11:00
P-3 7'	WRD0042-02	04/01/08 11:15
P-3	WRD0042-03	04/01/08 11:30

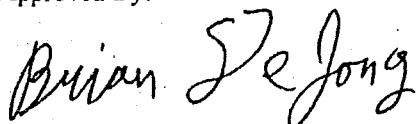
Samples were received into laboratory at a temperature of 2 °C.

Wisconsin Certification Number: 128053530

The Chain of Custody, 1 page, is included and is an integral part of this report.

Unless subcontracted, volatiles analyses (including VOC, PVOC, GRO, BTEX, and TPH gasoline) performed by TestAmerica Watertown at 1101 Industrial Drive, Units 9&10. All other analyses performed at the address shown in the heading of this report.

Approved By:



TestAmerica Watertown
Brian DeJong For Dan F. Milewsky
Project Manager

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

602 Commerce Drive Watertown, WI 53094 * 800-833-7036 * Fax 920-261-8120

CEDAR CORPORATION
604 Wilson Avenue
Menomonie, WI 54751
Mr. Scott McCurdy

Work Order: WRD0042
Project: Shipley-Corner Store
Project Number: Ridgeland, WI

Received: 04/02/08
Reported: 04/09/08 11:26

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WRD0042-03RE1 (P-3 - Ground Water)							Sampled: 04/01/08 11:30			
3C VOLATILES										
Benzene	1900		ug/L	10	33	40	04/07/08 18:03	EML	8040182	SW 8021
Ethylbenzene	500		ug/L	8.8	29	40	04/07/08 18:03	EML	8040182	SW 8021
Methyl tert-Butyl Ether	<9.2		ug/L	9.2	31	40	04/07/08 18:03	EML	8040182	SW 8021
Toluene	3200		ug/L	4.4	15	40	04/07/08 18:03	EML	8040182	SW 8021
1,2,4-Trimethylbenzene	430		ug/L	10	33	40	04/07/08 18:03	EML	8040182	SW 8021
1,3,5-Trimethylbenzene	120		ug/L	7.6	25	40	04/07/08 18:03	EML	8040182	SW 8021
Xylenes, total	2700		ug/L	16	52	40	04/07/08 18:03	EML	8040182	SW 8021
Surr: 4-Bromofluorobenzene (80-200%)	105 %									

CEDAR CORPORATION
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 Menomonie, WI 54751
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Work Order: WRD0042
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 Reported: 04/09/08 11:26

CCV QC DATA

Analyte	Seq/ Batch	Source Spike		MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
		Result	Level Units										
GC VOLATILES													
Benzene	8D07008	2000.0	ug/kg wet	N/A	N/A	1800		90		85-115			
Ethylbenzene	8D07008	2000.0	ug/kg wet	N/A	N/A	1810		90		85-115			
Methyl tert-Butyl Ether	8D07008	2000.0	ug/kg wet	N/A	N/A	1780		89		85-115			
Toluene	8D07008	2000.0	ug/kg wet	N/A	N/A	1790		90		85-115			
1,2,4-Trimethylbenzene	8D07008	2000.0	ug/kg wet	N/A	N/A	1790		90		85-115			
1,3,5-Trimethylbenzene	8D07008	2000.0	ug/kg wet	N/A	N/A	1800		90		85-115			
Xylenes, total	8D07008	6000.0	ug/kg wet	N/A	N/A	5430		90		85-115			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>8D07008</i>		ug/kg wet					<i>101</i>		<i>85-115</i>			
Benzene	8D07012	20.000	ug/L	N/A	N/A	19.0		95		85-115			
Ethylbenzene	8D07012	20.000	ug/L	N/A	N/A	18.8		94		85-115			
Methyl tert-Butyl Ether	8D07012	20.000	ug/L	N/A	N/A	19.0		95		85-115			
Toluene	8D07012	20.000	ug/L	N/A	N/A	19.0		95		85-115			
1,2,4-Trimethylbenzene	8D07012	20.000	ug/L	N/A	N/A	18.6		93		85-115			
1,3,5-Trimethylbenzene	8D07012	20.000	ug/L	N/A	N/A	18.7		93		85-115			
Xylenes, total	8D07012	60.000	ug/L	N/A	N/A	56.4		94		85-115			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>8D07012</i>		ug/L					<i>106</i>		<i>85-115</i>			
Benzene	8D08006	2000.0	ug/kg wet	N/A	N/A	1900		95		85-115			
Ethylbenzene	8D08006	2000.0	ug/kg wet	N/A	N/A	1910		96		85-115			
Methyl tert-Butyl Ether	8D08006	2000.0	ug/kg wet	N/A	N/A	1870		94		85-115			
Toluene	8D08006	2000.0	ug/kg wet	N/A	N/A	1900		95		85-115			
1,2,4-Trimethylbenzene	8D08006	2000.0	ug/kg wet	N/A	N/A	1910		95		85-115			
1,3,5-Trimethylbenzene	8D08006	2000.0	ug/kg wet	N/A	N/A	1910		95		85-115			
Xylenes, total	8D08006	6000.0	ug/kg wet	N/A	N/A	5760		96		85-115			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>8D08006</i>		ug/kg wet					<i>105</i>		<i>85-115</i>			

CEDAR CORPORATION
604 Wilson Avenue
Menomonie, WI 54751
Mr. Scott McCurdy

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Reported: 04/09/08 11:26

LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Spike Result Level Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	%REC Limits	RPD RPD	RPD Limit	Q
GC VOLATILES												
Benzene	8040177	5000.0 ug/kg wet	N/A	N/A	4910	5080	98	102	80-120	3	20	
Ethylbenzene	8040177	5000.0 ug/kg wet	N/A	N/A	5000	5110	100	102	80-120	2	20	
Methyl tert-Butyl Ether	8040177	5000.0 ug/kg wet	N/A	N/A	4970	5510	99	110	80-120	10	20	
Toluene	8040177	5000.0 ug/kg wet	N/A	N/A	4960	5120	99	102	80-120	3	20	
1,2,4-Trimethylbenzene	8040177	5000.0 ug/kg wet	N/A	N/A	5010	5100	100	102	80-120	2	20	
1,3,5-Trimethylbenzene	8040177	5000.0 ug/kg wet	N/A	N/A	5010	5080	100	102	80-120	1	20	
Xylenes, total	8040177	15000 ug/kg wet	N/A	N/A	14900	15300	99	102	80-120	2	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>8040177</i>	<i>ug/kg wet</i>					<i>104</i>	<i>107</i>	<i>80-200</i>			
Benzene	8040182	20.000 ug/L	N/A	N/A	18.5	19.4	92	97	80-120	5	20	
Ethylbenzene	8040182	20.000 ug/L	N/A	N/A	18.4	19.1	92	95	80-120	4	20	
Methyl tert-Butyl Ether	8040182	20.000 ug/L	N/A	N/A	18.7	19.2	94	96	80-120	3	20	
Toluene	8040182	20.000 ug/L	N/A	N/A	18.5	19.4	93	97	80-120	4	20	
1,2,4-Trimethylbenzene	8040182	20.000 ug/L	N/A	N/A	18.4	18.6	92	93	80-120	1	20	
1,3,5-Trimethylbenzene	8040182	20.000 ug/L	N/A	N/A	18.2	18.6	91	93	80-120	2	20	
Xylenes, total	8040182	60.000 ug/L	N/A	N/A	55.3	57.1	92	95	80-120	3	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>8040182</i>	<i>ug/L</i>					<i>107</i>	<i>112</i>	<i>80-200</i>			
Benzene	8040211	5000.0 ug/kg wet	N/A	N/A	4880	4860	98	97	80-120	1	20	
Ethylbenzene	8040211	5000.0 ug/kg wet	N/A	N/A	4980	4940	100	99	80-120	1	20	
Methyl tert-Butyl Ether	8040211	5000.0 ug/kg wet	N/A	N/A	4850	5160	97	103	80-120	6	20	
Toluene	8040211	5000.0 ug/kg wet	N/A	N/A	4950	4920	99	98	80-120	1	20	
1,2,4-Trimethylbenzene	8040211	5000.0 ug/kg wet	N/A	N/A	4980	4920	100	98	80-120	1	20	
1,3,5-Trimethylbenzene	8040211	5000.0 ug/kg wet	N/A	N/A	4990	4920	100	98	80-120	1	20	
Xylenes, total	8040211	15000 ug/kg wet	N/A	N/A	14900	14700	99	98	80-120	1	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>8040211</i>	<i>ug/kg wet</i>					<i>104</i>	<i>111</i>	<i>80-200</i>			

Test America

ANALYTICAL TESTING CORPORATION

Watertown Division
602 Commerce Drive
Watertown, WI 53094

Phone 920-261-1660 or 800-833-7036
Fax 920-261-8120

WRD0042

To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?
Compliance Monitoring _____

Client Name: Cadon Corporation Client #: _____

Address: 604 Wilson Ave

City/State/Zip Code: Manomonia, WI 54751

Project Manager: Scott McCuddy

Telephone Number: 715-235-9081 Fax: 715-235-2727

Sampler Name: (Print Name) Rayon Stojne

Sampler Signature: [Signature]

Project Name: Shiplay - Corner Store

Project #: _____

Site/Location ID: Ridgeland State: WI

Report To: Cadon

Invoice To: Cadon

Quote #: PGCFA PO#: _____

TAT <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (surcharges may apply)	Date Needed: _____	Fax Results: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other	Preservation & # of Containers							Analyze For:	QC Deliverables ____ None ____ Level 2 (Batch QC) ____ Level 3 ____ Level 4 Other: _____	
								HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol	None	Other (Specify)			REMARKS
P-3 4-5'	4-1-08	1100	G	N	S												
P-3 7'	↓	1115	↓	N	S												7-8
P-3 H ₂ O	↓	1130	↓	N	GLW	3											
Special Instructions:													LABORATORY COMMENTS: Init Lab Temp: Rec Lab Temp: <u>20</u> Custody Seals: Y N N/A Bottles Supplied by Test America: <input checked="" type="checkbox"/> N Method of Shipment: <u>Dorham</u>				
Relinquished By: <u>[Signature]</u>	Date: <u>4/2/08</u>	Time: <u>1400</u>	Received By: <u>[Signature]</u>	Date: <u>4/2/08</u>	Time: <u>8:44</u>												
Relinquished By:	Date:	Time:	Received By:	Date:	Time:												
Relinquished By:	Date:	Time:	Received By:	Date:	Time:												

APPENDIX D

HEALTH AND SAFETY PLAN

Site Health & Safety Plan

POST THIS DOCUMENT ON THE WORK SITE

Project Name/No.: Corner Store

Site Address: 100 Tonnar Street (Highway 25), Ridgeland, Wisconsin 54761

Project Manager: Ken Shimko

Client Contact: Jason Foster Phone: 715/949-1230

Beginning & Ending Dates of Field Activities: June 2010 - ongoing

EMERGENCY PHONE NUMBERS

LOCAL EMERGENCY TELEPHONE NUMBERS:

Ambulance	<u>911</u>
Hospital Emergency Room	<u>911</u>
Poison Control Center	<u>1-800-222-1222</u>
Fire Department	<u>911</u>
Police Department	<u>911</u>
Hazardous Materials Response Unit	911

Project Manager: Ken Shimko

Office: 715-832-6608

Cell: ~~715-██████████~~

Home: ~~715-██████████~~

Client Contact: Jason Foster

Home: ~~██████████~~

Cell: ~~██████████~~

Regulatory Agency:

Department of Commerce/Tim Zeichert

715-345-5307

Department of Natural Resources/Pat Collins

715/684-2914 ext. 117

MEDICAL EMERGENCY ROUTE

Hospital: Barron Medical Center

Phone number: 715/537-3186

Hospital address: 122 East Woodland Ave, Barron, Wisconsin

Directions to nearest hospital:

Take Highway 25 north to Barron (about 15 miles). Follow hospital signs (blue 'H') to hospital. Turn Right on LaSalle Avenue. Go about 11 blocks to Memorial Drive; turn right onto Memorial Drive. Go about 1 block to hospital.

Distance & driving time to hospital: Approximately 15 miles (20 minutes)

SITE INFORMATION

PLANNED SITE ACTIVITIES:

Investigation of petroleum - impacted soil and ground water

RESOURCES AVAILABLE ON-SITE:

Telephone Yes

Restrooms Yes

Water supply Yes

If unavailable, identify alternatives:

SITE HISTORICAL INFORMATION:

Site is an operating retail gasoline/convenience store.

POTENTIAL HAZARDS:

Chemical Contaminants:

Hydrocarbons Yes

Metals No

Asbestos No

Other: Yes Benzene and petroleum vapors. Avoid odors by standing upwind or away from contaminated soil/ground water, if present.

Electrical Yes No

Radiation Yes No

Noise Yes No Site machinery/equipment

Fall & slip Yes No

Construction Equip. Yes No Excavation equipment

Biological Hazards Yes No

Heat Stress Yes No

Cold Stress Yes No

Confined spaces Yes No

Engulfment Hazards Yes No

REQUIRED HEALTH & SAFETY EQUIPMENT

First Aid Kit Yes No

Hard Hat Yes No

Safety Glasses Yes No

Hearing Protection Yes No As needed

Safety Boots Yes No

Protective Gloves Yes No When sampling

Protective Suits Yes No

Respirator:

1/2 Mask Yes No

Full Face Yes No

PAPR Yes No

Cannister Type Yes No

SCBA Yes No

Other:

APPENDIX E
FIELD PROCEDURES

Field Procedures

The appendix describes field work procedures for this project. Where applicable, these procedures are performed in accordance with Wisconsin Department of Natural Resources (WDNR), Wisconsin Administrative Code requirements, American Society for Testing and Materials (ASTM) standards, or accepted engineering or geologic standards.

SOIL PROBE INSTALLATION

The contractor installed soil probes in accordance with the procedures described in Wisconsin Administrative Code, Chapter NR 141. Soil probe sampling consists of installing a hydraulically driven steel 2-inch diameter rod. The steel sampling device at the end of the rods is 4 feet long and assembled with a disposable plastic liner for sample collection. Samples are collected continuously using the following method:

When the rod is positioned at the top of the desired sampling interval, the piston stop pin is removed, and the sampler is driven the desired sample interval to encase the soil sample in the plastic liner. The rods are then retracted from the hole and brought to the surface. The plastic liner is removed from the sample rod that contains the undisturbed soil sample. The liner is split open with a clean utility knife and the soil is classified and then transferred to laboratory and field screening containers as described in the soil sample collection section in this appendix.

Meridian personnel are present during the field work to establish soil probe locations, determine soil sample intervals, classify soils using the Unified Soil Classification System (USCS), log soil probes, and collect and screen soil samples. Soil classification information is recorded on the soil borings logs (WDNR Form 4400-122) and copies are included in the site investigation report.

Sampling and soil probe equipment is decontaminated as described under the decontamination section in this appendix. Plastic liners are disposable and are not reused.

When the sampling is completed, soil probe holes are filled with bentonite and the surface material restored. Soil probe abandonment details are described on WDNR Form 3300-5W, and copies are included in the site investigation report. Soil cuttings generated during drilling are containerized in 5-gallon buckets. Because of the small quantity, these cuttings are typically disposed of in a dumpster.

HOLLOW STEM AUGER BORING INSTALLATION

Hollow stem auger borings are installed by the contractor in accordance with the procedures described in Wisconsin Administrative Code, Chapter NR141. The contractor installs borings using a mobile drill rig equipped with 4 1/4-inch hollow stem augers. In general, soil samples are collected at 2.5-foot sample intervals from the surface to the boring terminus. Soil samples are obtained using a split spoon sampler (1 3/8 inches in diameter by 2 feet long) driven by a 140-pound hammer in accordance with the procedures described in ASTM D-1586.

Meridian personnel are present during the field work to establish soil boring locations, determine soil sample intervals, classify soils using the Unified Soil Classification System (USCS), log soil borings, and collect and field screen soil samples. Soil classification information is recorded on soil boring logs (WDNR Form 4400-122) and copies are included in the site investigation report.

The split spoons are decontaminated as described under the decontamination section in this appendix. Clean augers are used in each boring. All augers are steam cleaned before reuse.

Field Procedures

Page 2

When the sampling is completed, soil boreholes that were not converted into ground water monitoring wells were filled with bentonite and the surface restored. Soil boring abandonment details are described on WDNR Form 3300-5W, and copies are included in the site investigation report. Soil cuttings generated during drilling are containerized in 55-gallon drums on site and are labeled with the date and the soil's origin. The drums have been picked up for proper disposal of the cuttings.

SOIL SAMPLE COLLECTION

Meridian personnel retrieve soil samples from the sampling equipment using a clean nitrile gloves and avoid collecting slough materials.

At each sampling point, we collect two groups of soil samples: headspace samples and samples for potential laboratory analysis. We place samples for headspace screening in clean 8-ounce glass jars with screw caps and lids, and fill the jars approximately one-quarter to one third full. We use the headspace screening results to determine which soil samples should be preserved and/or sent to the laboratory. Soil collection methods used are in accordance with WDNR's *Leaking Underground Storage Tank and Petroleum Analytical and Quality Assurance Guidance*, July 1993, PUBL SW-130 93.

During collection of laboratory grade samples, we remove the soil from the sampling equipment and place it directly into a sample jar which is capped with a Teflon lined slip cap to prevent volatilization. These jars are temporarily stored on ice in a cooler. After field screening is done and within the prescribed 2 hours, the required sample amount is transferred to the correct laboratory container and a preservative is added if needed. For diesel range organic (DRO), gasoline range organic (GRO), volatile organic compound (VOC), or petroleum VOC (PVOC) samples, we weigh the jar on a scale before adding soil and again after the soils are added to verify that approximately 25 grams is contained. We then place the selected laboratory samples on ice in a cooler immediately after collection, and keep samples cool until analysis by the laboratory.

The specific collection method, including the size and type of containers used, are dependent on the type of analysis to be conducted. Within two hours of sample collection, we preserve samples chosen for laboratory analysis, based on field screening results, using the following procedure:

- GRO, VOC, and PVOC samples- Place approximately 25 grams soil into a 60-milliliter tared glass jar with a septum lid then add 20-milliliters of methanol as a field preservative.
- Metals-Fill a 125-milliliter plastic jar with soil. No preservative is added to these samples.
- Percent solids (moisture analysis)-Fill a 125-milliliter plastic jar with soil.

We prepare a methanol blank (one for each day of sampling) during preservation of the first soil sample. A methanol blank is prepared by filling a 60-milliliter jar with a single 25-milliliter vial of methanol supplied by the laboratory.

A chain-of-custody log, WDNR Form 4400-151 or equivalent, is completed when the samples are collected. We record the project name and number, sampler's names(s), sample location and depth, sample number, date and time of collection, type of sample, method of sample collection, number of containers, type of preservation, type of chemical analyses to be performed, field screening results (soils only), and additional remarks about the sample if needed on the chain-of-custody log. The individual(s) handling the samples signs and dates the log. Shipment arrangements are made so the samples arrive within the appropriate shipping time allowed by WDNR guidance.

SOIL LABORATORY ANALYSIS

Samples are analyzed by a laboratory certified by the WDNR. Analytical methods used are as follows:

<u>PARAMETER</u>	<u>METHOD</u>	<u>MDL</u>
GRO	WDNR Modified GRO	1.2 mg/kg
VOC's	EPA Method 8021	25µg/kg
PVOC's	EPA METHOD 8020	25µg/kg
Lead	EPA Method 6010B	0.1 mg/kg

HEADSPACE SCREENING (FID)

Headspace screening samples are qualitatively screened for organic vapors using a flame ionization detector (FID).

The FID is factory calibrated annually with three methane gas standards. The accuracy of the FID instrument is checked daily by adjusting the instrument to a "Zero Air" standard (<1 part per million [ppm] total hydrocarbons) and then using a 95 ppm methane gas standard to verify factory calibration. According to the manufacturer, the operation of the FID is acceptable if the response to the methane gas is within 20% of the 95-ppm standard. This equates to meter readings between 76 and 114. The FID response to the calibration gas is documented in the site investigation report.

After the soil sample to equilibrate in accordance with WDNR guidance, we screen the total organic vapors in the jar by piercing the lid and then immediate inserting the FID probe. Meter responses are recorded as instrument units (i.u.s) methane gas equivalents. The highest meter response is recorded in the field notes and/or on the soil boring logs. The FID responses are a relative indication of total ionizable volatile organic compounds present in the atmosphere surrounding the sample and do not necessarily represent the concentration of any specific compound in the sample.

HEADSPACE SCREENING (PID)

Headspace screening samples are qualitatively screened for organic vapors using a photo ionization detector (PID) equipped with a 10.6 eV lamp. Before we use the PID, we calibrate it using 100-ppm isobutylene gas.

After allowing the soil sample to equilibrate in accordance with WENR guidance, we screen the total organic vapors in the jar by piercing the lid and then immediately inserting the PID probe. Meter response are recorded as i.u.s isobutylene gas equivalents. The highest meter response is recorded in the field notes and/or on the soil boring logs. The PID responses are a relative indication of total ionizable volatile organic compounds present in the atmosphere surrounding the sample and do not necessarily represent the concentration of any specific compound.

MONITORING WELL CONSTRUCTION AND DEVELOPMENT

If monitoring wells are needed, they are installed by the contractor in accordance with the procedures described in Wisconsin Administrative Code NR 141. Monitoring well construction consists of 2-inch diameter PVC casing with a 0.010-inch slotted well screen. A 10-foot long well screen intercepting the water table is used for the wells. Filter packs for the monitoring wells consist of No. 30 sand installed from the base of the boring to 2 feet above the well screen.

A filter pack seal, consisting of 2 feet of No. 70 silica sand is installed above the filter pack. The remainder of the well has an annular space seal, consisting of 3/8-inch bentonite chips installed from the top of the fine sand to within

Field Procedures

Page 4

1 foot of the ground surface. A 1-foot concrete surface seal is placed around the well's protective cover. Monitoring wells are provided with a watertight well cap and either an aboveground or flush mount protective casing. All wells have locking caps. A blue Wisconsin Unique Well Number (WUWN) label is attached to the inside of the protective cover or flush mount manhole. Well construction details for wells are included in the site investigation report on Form 4400-113A. Ground water monitoring well information for the site is summarized on Form 4400-89.

Meridian personnel develop each monitoring well after installation in accordance with the procedures described in Wisconsin Administrative Code NR 141. We develop each well using a combination of surging and purging with a disposable bailer and a submersible pump. Approximately 10 well volumes are removed from each well. Each well is then allowed to stabilize for at least 3 days before it is sampled. Well development water is containerized and disposed of by a licensed facility. During well development, we document our observations of odor, color, and turbidity. A monitoring well development Form 4400-113B is included in the site investigation report for each well installed.

GROUND WATER SAMPLE COLLECTION

We conduct ground water sampling using the procedures described in the *Groundwater Sampling Field Manual* (PUBL-DG 038 96), the *Groundwater Sampling Desk Reference* (PUBL-DG-037 96), and in-house sampling memorandums. Before they are sampled, the wells are allowed to stabilize at least 3 days after they are developed. Before purging the monitoring wells, we take static water level measurements with an electronic water level indicator.

To obtain representative samples, we purge approximately three well casing volumes from each well. The actual volume pumped is determined in the field and is dependent on the diameter of the well casing and the depth of the water in the well. We check the purged water for signs of contamination. If there is evidence of contamination, we store the purged water in containers on site for later disposal at a WDNR-approved facility. If there is no evidence of contamination, we dispose of the purged water by thin spreading the water next to the well. We collect samples from the next bailer of water after the well recharges.

We obtain the samples by lowering a disposable plastic bailer into the well using dedicated rope and collect samples directly from the bailer into laboratory-provided sample containers. Between sample locations, we decontaminate the water level indicator using the decontamination procedures describe in this appendix.

If relevant to the project, we may also measure natural attenuation parameters such as dissolved oxygen, redox or pH.

- Dissolved oxygen is measured using a colorimetric ampule.
- Redox-Obtain a sample from the bailer and transfer it to a jar. Insert the redox probe in the sample, stir the probe until the meter stabilizes, then record the reading.
- pH-Connect the pH probe to the redox probe and insert it into the same sample used for the redox reading (no stirring required), then record the reading.

We collect the analytical samples using the following procedures:

- GRO, VOC, and PVOC samples-Fill a 4 milliliter vial that has a cap and septum, and preserve the sample with 0.5 milliliter of dilute 1:1 hydrochloric acid.
- Dissolved lead and iron-Collect 250 milliliters in a disposable plastic container and store on ice. Filter sample through a 0.45-micron disposable filter within 2 hours of collection. Pour the filtrate into a polyethylene jar and preserve the sample with nitric acid. Store sample in an ice slurry.

Field Procedures

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- Nitrate+Nitrite as N-Fill a 250 milliliter polyethylene jar and preserve the sample with sulfuric acid. Store sample in an ice slurry.
- Sulfate-Fill a 250-milliliter polyethylene jar and store sample in an ice slurry. No preservative is added.

One trip blank is also analyzed for each sampling event. We place the sample on ice in a cooler; enclose a completed WDNR chain-of-custody record, Form 4400-151 or equivalent; and ship the cooler to the laboratory so it arrives within the shipping time allowed by WDNR.

Meridian initiates a chain-of-custody log, WDNR Form 4400-151 or equivalent, at the time of collection of ground water samples. We record the project name and number, sampler's name(s), sample location and depth, sample number, date and time of collection, type of sample, method of sample collection, number of containers, type of preservation, type of chemical analyses to be performed, method of shipment, and additional remarks about the sample if needed on the chain-of custody log.

In addition to a chain-of-custody, we complete a field sampling report for water sample collection. We record the type of monitoring well; depth to well bottom; depth to water; sampling method; well purging date, time, and volume; time of sample collection; sample filtering, if applicable; and observations, such as color, odor, and turbidity of samples.

GROUND WATER LABORATORY ANALYSIS

Samples are analyzed by a laboratory certified by the WDNR. Analytical methods used are as follows:

<u>PARAMETER</u>	<u>METHOD</u>	<u>LOD</u>	<u>LOQ</u>
GRO	WDNR Modified GRO	30 µg/L	81 µg/L
VOC's	EPA Method 8021	0.2 to 1.2 µg/L	0.5 to 4.0µg/L
PVOC's	EPA Method 8020	0.2 to 1.7 µg/L	0.5 to 5.5 µg/L
Lead	EPA Method 3020/7421	1.6 µg/L	5.1 µg/L
Nitrate+Nitrite	EPA Method 353.2	0.14 mg/L	0.43 mg/L
Sulfate	EPA Method 325.2	1 mg/L	4 mg/L
Dissolved Iron	EPA Method 236.1	0.020 mg/L	0.064 mg/L

GROUND WATER SAMPLE COLLECTION FROM SOIL PROBES

Meridian personnel conducts ground water sampling in accordance with the procedures described in the *Groundwater Sampling Field Manual* (PUBL-DG-038 96) and the *Groundwater Sampling Desk Reference* (PUBL-DG-037 96).

Following soil probe installation, a slotted rod with a sampling point (no plastic liner) is driven to the water table. The sample collector is opened allowing ground water to enter the collection tube. A 1/8-inch-diameter plastic hose is inserted through the steel rods to the water table. A vacuum pump is used to siphon the ground water through the hose and the ground water is drained into sample containers. We continue this process until enough volume is retrieved to fill all sample containers.

Samples are collected for analysis of the following parameters:

- GRO, VOC, and PVOC samples-Fill a 40- milliliter vial with cap that has a septum and preserve with 0.5 milliliter of dilute 1:1 hydrochloric acid.
- Dissolved lead and iron-Collect 250 milliliters in a disposable plastic container and store on ice. Filter sample through a 0.45-micron disposable filter within 2 hours of collection. Pour the filtrate into a polyethylene jar and preserve the sample with nitric acid. Store sample in an ice slurry.

We place the samples on ice in a cooler; enclose a completed WDNR chain-of-custody record, Form 4400-151 or equivalent; and ship the cooler to the laboratory so it arrives within the shipping time allowed by WDNR.

SAMPLING EQUIPMENT DECONTAMINATION

To reduce the potential for cross-contamination of samples, Meridian cleans reusable sampling equipment between each sampling interval using the following three-step procedure:

1. Soap and water wash-Remove visible soil by hand with a scrub brush using Alconox soap and tap water
2. Water rinse-Use tap water with a scrub brush to remove soap and left-over soil
3. Deionized water rinse-Use deionized water to rinse off any remaining soil, soap residue, or possible contaminants

The cleaning solution and rinse water was changed regularly during sampling. Tap water is obtained from a municipal water supply.