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PHASE III

ENVIRONMENTAL ASSESSMENT REPORT

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FOR THE

BOB'S SERVICE STATION SITE

STATE HIGHWAY 70

VILLAGE OF FALUN

BURNETT COUNTY, WISCONSIN

SEPTEMBER 1990

PREPARED FOR THE

WISCONSIN DEPARTMENT OF TRANSPORTATION

PROJECT 8040-03-00

PREPARED BY AQUA-TECH, INC. 140 SOUTH PARK STREET PORT WASHINGTON, WISCONSIN 53074 ATI PROJECT NO. 91035

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WDOT PROJECT 8040-03-00

Date: <u>9-11-9</u>0 mate

James J. Mertes Environmental Project Coordinator Aqua-Tech, Inc.

∠ Date:

11/90 91

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1.0 SUMMARY

Aqua-Tech, Inc. has completed a Phase III Environmental Assessment for the Bob's Service Station site, State Highway 70, Falun, Burnett County, Wisconsin. The assessment was performed on June 7, 1990, as contracted by the Wisconsin Department of Transportation (WDOT) Risk and Safety Management Section under WDOT Project 8040-03-00.

The purpose of the assessment was to better define the vertical and horizontal extent of petroleum contaminants discovered within the highway right-of-way at the site during an initial investigation conducted November 7, 1989. Additional activities included:

- * Two soil borings to a maximum depth of 16.0 feet
- * Collection and field screening of subsurface soil samples for volatile organic compounds (VOCs) with a photoionization detector (PID)
- * Chemical analysis of one subsurface soil sample for the following parameters: total petroleum hydrocarbons (TPH); benzene, toluene, ethylbenzene, and xylenes (BTEX); percent solids; pH, and flash point
- * Chemical analyses of two groundwater samples for TPH, and/or BTEX

The results of the Phase III investigation indicate that the soils within the existing right-of-way at the site are contaminated with gasoline above the Wisconsin Department of Industry, Labor, and

Human Relations (DILHR) 10 mg/kg (ppm) remedial action level for TPH.

Groundwater petroleum contamination was identified at levels exceeding the Wisconsin Administrative Code N.R. 140.10 enforcement standards.

An estimate to remove and landfill an estimated 833 cubic yards of gasoline contaminated soil and to install additional groundwater monitoring wells is \$49,500. Actual costs will depend on the remedial procedure selected and the total amount of soil and groundwater to be remediated.

2.0 SITE BACKGROUND

2.1 Introduction

This section summarizes the activities and results of the previous environmental investigation at the site.

2.2 Previous Investigations

The site has been the subject of a Phase II Environmental Assessment conducted by Aqua-Tech on November 7, 1989. Activities included in the assessment were:

- * Regulatory background review
- * Site representative interview
- * Two soil borings to a maximum depth of 14.0 feet
- Collection and field screening of subsurface soil
 samples for VOCs
- * Chemical analysis of one subsurface soil sample for TPH
- Chemical analyses of two groundwater samples for
 VOCs

The laboratory results of this investigation indicated that some soils and groundwater within the proposed right-ofway acquisition at the site were contaminated by petroleum products. The contamination was identified primarily in boring B-2 at a depth of 10 to 14 feet.

3.0 SITE ASSESSMENT PROCEDURES AND FIELD OBSERVATIONS

3.1 Introduction

This section outlines assessment procedures and field observations for the environmental assessment at the Bob's Service Station site. Individual subsections address the sampling and chain of custody procedures. Rationales for specific assessment activities are also provided.

3.2 Sampling Procedures

On June 7, 1990, Aqua-Tech completed two borings (BS-1, BS-2) and collected one subsurface soil sample and two groundwater samples for laboratory analyses. See Figure 3-1 for boring locations.

Samples were collected from subsurface borings to determine the extent of petroleum product contamination present in the soil and/or groundwater at the site. Suitable boring locations were limited by overhead utilities and State Highway 70.

Soil Sampling Procedures

Subsurface soil samples were collected with a truck mounted rotary drill equipped with hollow stem augers and a two inch diameter, 24 inch split spoon sampler. The split spoon sampler was advanced at two foot intervals by conventional methods, including the attachment of the sampler to an AW rod and standard 140 pound hammer.

All drilling tools and equipment were washed with high pressure steam equipment prior to the start of sampling work.



All sampling equipment was decontaminated with an alconox and reagent water solution between sampling points to prevent cross contamination.

A preliminary survey was conducted by screening samples with a photoionization detector (PID) immediately upon opening the split spoon sampling tube. Results from the survey were used to select the most contaminated soils from each boring for laboratory analysis. Data from the preliminary survey are recorded on the soil profile logs in Appendix A.

After pedologic logging (See Appendix A), the selected samples were stored in clean four ounce jars and cooled to 4° C for transport to the laboratory.

Upon completion of sampling, the boreholes were backfilled with bentonite (See Appendix B). Contaminated drill cuttings were stockpiled on the site and covered with an impermeable membrane.

Groundwater Sampling Procedures

Groundwater samples were collected from soil borings BS-1 and BS-2 to determine whether any petroleum components had migrated from the contaminated subsurface soil to groundwater. Samples were collected by inserting a clean disposable PVC bailer down the hollow stem auger and transferring the contents to two 40 ml glass vials and liter amber glass bottles.

After the collection of each water sample, the vials and bottles were sealed, taking care to ensure no air was included, and cooled to 4°C for transport to the laboratory.

3.3 Chain of Custody Procedures

This section describes procedures used for sample identification and chain of custody. The purpose of these procedures is to ensure that the integrity of the samples is maintained during their collection, transportation, and storage through analysis.

Sample identification documents are carefully prepared so that sample identification and chain of custody is maintained and sample disposition controlled. Sample identification documents include:

- * Field Notebooks
- * Sample Labels

* Chain of Custody Records

Each sample is labeled, physically preserved, and sealed immediately after collection. To minimize handling of sample containers, labels are filled out prior to sample collection. The sample label is completed using waterproof ink and is firmly affixed to the sample containers. The sample label provides the following information:

* Location
* Sample Number
* Date and Time of Collection
* Analysis Required

× 3-4

Name of Sampler

A chain of custody record (See Appendix C) is fully completed in duplicate by the Aqua-Tech sampler immediately following sample collection.

Transfer of Custody Shipment

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The coolers in which the samples are packed are accompanied by a chain of custody record. When transferring samples, the individuals relinquishing and receiving them sign, date, and note the time on the chain of custody record. This record documents sample custody.

Laboratory Custody Procedures

A designated sample custodian accepts custody of the shipped samples and verifies that the sample identification number matches that on the chain of custody record. A copy of the completed chain of custody record is retained by the laboratory until analyses are complete. The record is then transferred to the site file with the analytical results.

4.0 ANALYTICAL PROCEDURES AND RESULTS

4.1 Introduction

This section includes analytical procedures and results of chemical analyses of subsurface samples for total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, and xylene (BTEX), percent solids, pH, and flash point.

4.2 Analytical Procedures

All samples were analyzed by Aqua-Tech, Inc., Port Washington, Wisconsin, by the following methods:

ТРН	Modified California Gas Chromatography
BTEX (soil) (water)	EPA 8020 EPA 602
Percent Solids	EPA 160.3
РН	EPA 9045
Flash point	EPA 1020

Analytical methodology references contain specific quality control (QC) criteria associated with the particular methods. These specific requirements include calibration and QC samples and are described in detail within the methods. Daily performance tests and demonstration of precision and accuracy are required.

4.3 Results of Chemical Analyses of Aqua-Tech Collected Samples Chemical analyses of soil samples yielded the following:
* TPH as gasoline was detected at 163 ug/g (ppm) in soil sample BS-2 (6 to 8 feet)

- * BTEX components were identified at concentrations up to 22 ug/g xylenes in soil sample BS-2 (6 to 8 feet)
- * Flash point was greater than 200°F and pH was 8.11
 in soil sample BS-2 (6 to 8 feet)

All TPH results were calculated on a dry weight basis as required by the Wisconsin Department of Industry, Labor, and Human Relations. See Table 4-1 for complete soil sample results. The original laboratory data are provided in Appendix C.

Chemical analyses of groundwater samples yielded the following:

*	BTEX components were identified at levels up to
	11,450 ug/1 xylenes in sample WB-2
*	TPH as gasoline was identified at 80,700 ug/l in
	sample WB-2

See Table 4-2 for complete groundwater results. Original laboratory data are provided in Appendix C.

TABLE 4-1

BOB'S SERVICE STATION SITE

SUBSURFACE SOIL SAMPLE CHEMICAL ANALYSIS RESULTS

COLLECTED: JUNE 7, 1990

Parameter	Soil Sample <u>BS-2 (6-8'</u>)
Field Photoionization Detector (ppm)	160
Total Petroleum Hydrocarbons (ug/g) as Gasoline*	163**
Benzene (ug/g)	3.1
Toluene (ug/g)	11.3
Ethylbenzene (ug/g)	2.7
Xylenes (ug/g)	22
Percent solids	70
рН	8.11
Flash Point	>200 ^⁰ F

*

All TPH results reported on a dry weight basis.

** Ten ug/g is the maximum level of TPH contamination allowed in soil before remediation is required by the Wisconsin Department of Industry, Labor, and Human Relations.

TABLE 4-2

BOB'S SERVICE STATION SITE

GROUNDWATER CHEMICAL ANALYSES RESULTS

COLLECTED: JUNE 7, 1990

			Wis. Admini Code N.R.	strative 140.10
Parameter	Sample <u>WBS-1</u>	Sample <u>WBS-2</u>	Preventive <u>Action Limit</u>	Enforcement _Standard
TPH as gasoline (ug/l)		80,700		
Benzene (ug/1)	<1	720	0.067	0.67
Toluene (ug/l)	<1	3,820	68.6	343
Ethylbenzene (ug/1)	<1	1,900	272	1360
Xylenes (ug/l)	<1	11,450	124	620
Field Photoionization Detector - Headspace (ppm)	0	150		
рH	8.01	7.59		

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5.0 DISCUSSION OF ASSESSMENT RESULTS

5.1 Introduction

This section discusses data and information that apply to observed and potential contamination at the Bob's Service Station site.

5.2 Soil

Total petroleum hydrocarbon contamination above the 10 ug/g (ppm) Wisconsin Department of Industry, Labor, and Human Relations remedial action level was identified by laboratory analysis and field screening with a photoionization detector in boring BS-2. (Contamination was identified in boring B-2 during the previous investigation.)

Contamination was identified at the following approximate depths:

Boring BS-2 (gasoline)	4 to 16 feet
Boring B-2 (diesel)	10 to 14 feet

The TPH contamination was quantified as diesel in boring B-2 and as gasoline in boring BS-2. The terms "as diesel" and "as gasoline" do not necessarily indicate the type of petroleum hydrocarbon present. They indicate the closest laboratory standard used to quantitate the sample result.

Careful review of the chromatogram for sample BS-2 analyzed at Aqua-Tech, Inc. did not reveal the potential for a significant level of diesel fuel to be present in the sample. Sample B-2 was quantified as diesel fuel by a separate laboratory (NET Midwest, Inc., Rockford, Illinois).

Gasoline frequently undergoes partial degradation after several years in subsurface soils, sometimes resembling the standard for diesel fuel when analyzed by gas chromatography.

Petroleum contamination within the current WDOT rightof-way extends from approximately the center of the concrete pump island at the Bob's Service Station site, 75 feet west to the property boundary with Hedlund DX. A leaking underground gasoline storage tank was removed from the Hedlund site in approximately 1980.

It is not known how far the contaminated soil extends north under the current State Highway 70 and south on Bob's Service Station property. Current WDOT right-of-way extends 33 feet south of the State Highway 70 centerline at the site.

A soil boring (DX-5) completed for a separate environmental assessment (Hedlund DX Phase III) for the WDOT approximately 100 feet northwest of boring BS-2 did not produce photoionization detector readings above background levels. However, BTEX components were quantified in groundwater collected from the boring.

5.3 Groundwater

Groundwater was encountered in borings BS-1 and BS-2 at 6.5 feet. Gasoline components were identified in groundwater sample WBS-2 (collected from boring BS-2) at levels above the enforcement standards outlined in Wisconsin Administrative Code N.R. 140.10. Petroleum components were not identified in groundwater sample WBS-1.

Petroleum components were identified in a groundwater sample collected from boring B-2 during the previous investigation.

Groundwater contamination within the current WDOT rightof-way appears to extend from approximately the center of the concrete pump island at the site 75 feet west to the property boundary with Hedlund DX. It is not known how far the contaminated groundwater extends north under the current State Highway 70 and south under the Bob's Service Station property.

6.0 RECOMMENDATIONS

After completing the Phase III Environmental investigation at the Bob's Service Station site, Aqua-Tech, Inc. recommends that WDOT meet with the owner of Bob's Service Station and adjacent properties (Hedlund DX, Andy's Bait Shop, Orr's Trading Post), WDNR, and WDILHR to discuss specific clean up responsibilities and funding.

Local property owners may be eligible for a petroleum clean up fund (PECFA) administered by WDILHR. It is recommended that remediation be scheduled in conjunction with State Highway 70 construction.

Remedial procedures available for treating petroleum contaminated soils include active and passive venting systems, asphalt incorporation, low temperature thermal destruction, bioremediation, and landfill disposal. Costs range from \$40 to \$125 a cubic yard.

Options to remediate the contaminated soil at the site are limited by the soil type (primarily clay), underground utilities, and State Highway 70.

Groundwater monitoring and remedial action will be required by the WDNR to bring groundwater quality standards to levels within Wisconsin Administrative Code Standards.

An estimate cost to initiate remediation at the site follows.

BOB'S SERVICE STATION

ESTIMATED REMEDIAL COST OF EXISTING

STATE HIGHWAY 70 RIGHT-OF-WAY

Excavation and Landfill Disposal of Gasoline Contaminated Soil (Based on 833 cubic yards of petroleum contaminated soil				
at \$60 per cubic yard)	\$50,000			
Backfill and Compaction	5,000			
Environmental Consultant to Oversee Excavation	2,000			
Chemical Analyses of Ten Soil Samples for Total Petroleum Hydrocarbons	1,000			
Project Management and Report Preparation	2,000			
Installation of Three Groundwater Monitoring Wells	2,500			
TOTAL	\$62,500			

This estimate assumes an estimated 833 cubic yards of gasoline contaminated soil within the existing WDOT right-of-way to be disposed of at a landfill. Not included are costs for repairing any damaged utilities, restoring asphalt, landscaping, and remediating contamination outside of the current WDOT right-of-way at the site.

Actual cost to remediate the site will depend on the procedure selected and the total amount of contaminated soil to be remediated.

An air stripper to remediate contaminated groundwater will range from \$30,000 to \$100,000. This cost may be minimized by dividing costs between adjacent contaminated sites. APPENDIX A

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AQI	JA-TEC	H, IN	IC	SOIL PROFILE LOG
140 S	5. PARK ST.			PROJECT: BOB'S SERVICE STATION
PORT WASHINGTON, WI 53074				LOCATION: FALUN, WI
TELEF	HONE:			PROJECT#: 8040-03-00
(414)	284-5746 375-0407	MILW METR	0)	ATI WO#: 91035
BC	RING BS-1	(32.5' S (OF CENTERL	INE) SURFACE ELEVATION
	SAMPI	ES	<u> </u>	
NO.	(bpf) MOISTURE	REC PID LE	VELS DEPTH) (FT)	DESCRIPTION AND REMARKS
			0.0	0.0' - 0.4' GRAVEL
				0.4' - 2.0' SAND AND GRAVEL
				2.0' - 4.0' MEDIUM GRAINED BROWN SAND
	58/3	0		
	2224	Ο	5.0	4.0' - 14.0' GREY CLAY
WBS-1	3 5 7 9	0	—	
	2 3 5 6	0		
	2 2 3 4	0		14.0' - 15.0' SAND AND GRAVEL
	/		15.0	TERMINATED BORING AT 15.0'
				*WATER SAMPLE WBS-1: HNU = 0
			_	
			20 0-	
			20.0	
WATER	LEVEL OBSER	NATIONS	GE	NERAL INFORMATION
WHILE	DRILLING		START DAT	TE <u>6/07/90</u> COMPLETION DATE <u>6/07/90</u>
DEPTH	TO WATER	<u>6.5'▼</u>	DRILLING	METHOD: HOLLOW STEM AUGERS; SPLIT SPOON SAMPLIN
DEPTH	TO CAVE-IN		LOGGER :	lann-

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				THEFT I OF I
AQU	JA-TE	CH, IN	C	SOIL PROFILE LOG
140 S	. PARK ST	•		PROJECT: BOB'S SERVICE STATION
PORT	WASHINGTO	N, WI 53074		LOCATION: FALUN, WI
TELEP	HONE:			
(414)	284-5746		- `	PROJECT#: 8040-03-00
(414)	375-0407	(MILW METR	0)	ATI WO#: 91035
BOI	RING <u>BS-</u>	$\frac{2}{32.0}$ s	OF CENTERL	INE) SURFACE ELEVATION
	SAMP			
NO.	(bpf) MOISTURE	REC (PPM	VELS DEPTH) (FT)	DESCRIPTION AND REMARKS
			-0.0-	
				0.0' - 0.4' GRAVEL 0.4' - 3.0' MEDIUM BROWN SAND
		0		
			=	3.0' - 12.0' GREY CLAY
		20	5.0	
		150		
WBS-2		160	–	
BS-2	ļ			
		100		
		30		
		80		12.0' - 16.0' MEDIUM BROWN SAND
		1	15 0-	
			10.0	TERMINATED BORING AT 16.0'
				*SOIL SAMPLE BS-2: HNU = 160PPM
				*WHIER SHIFTLE WDS-2.0 HWU - 150 PPH
			20.0	
WATER LEVEL OBSERVATIONS GE				NERAL INFORMATION
WHILE DRILLING START DA				re 6/07/90 COMPLETION DATE 6/07/90
DEPTH TO WATER <u>6.5'</u> DRILLING				METHOD: HOLLOW STEM AUGERS; SPLIT SPOON SAMPLING
DEPTH TO CAVE-IN LOGGER:				am
				✓

APPENDIX B

State of Wisconsin Department of Natural Resources	• ··. WEI Form	LL/DRILL 3300-5	HOLE ABA Rev. 6-87	NDONMENT	
(1) GENERAL INFORMATION	(2) FACILI	TY NAME			
Well/Drillhole County Location B5-1 BURWETT	Original V	Vell Owner (J	lf Known)	ل مري ميرين /del> 	
1/4 of 1/4 of Sec; T N; R W	Present W	ell Owner			
(If applicable) Gov't LotGrid Number	Street or I	Route			
Civil Town Name B6's SERVICE STATION	City, Stat	e, Zip Code	• • •		
You feet E. of St. Hwy To + Pravise Line Rody	Well Num	ber and/or N	ame (If Applicable		
City, Village FALUN WI BARNETT (by	Reason Fo	or Abandonm	ent 27		
Date of Abandonment 6-7-90	an an an a	EST &	HWY TO	Improvement	
WELL/DRILLHOLE INFORMATION					
(Date) 6-7-90 Water Well Construction Report Available? Drillhole Attac head Construction Type: Attac head Drilled Driven (Sandpoint) Dug Other (Specify) Well Type: M/A Unconsolidated Formation Well Bechock Well Total Well Depth (ft.) Casing Diameter (ins.) Casing Depth (ft.) Yes No Was Well Annular Space Grouted? Yes No (7) Kind of Sealing Material	Pump & I Liner(s) R Screen Re Casing Le If No, Was Casi Did Seali Did Mate If Yes, (5) Required Condh Dump (6) Acceptab Neat Cen Sodium B From (FL)	Piping Remo emoved? moved? ft in Place? Explain ng Cut Off B ng Material F rial Settle Af Was Drillho Method of P potor Pipe-Gr Bailer le Sealing M ment Grout; entonite Slut To (FL)	ved? Ya Ya Ya Ya Ya Ya Ya Ya Ya Ya Ya Ya Ya Y	S No Not Applicable es No Not Applicable S No Yes Yes No Yes No Yes No uterial nductor Pipe-Pumped her (Explain)	
Bentanit	Surface	15.0		100 %	
				and the second sec	
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				·····	
(8) Comments:	.	en en		ing so de Rocentration (1990) en la com	
(9) Name of Person or Firm Doing Sealing Work	1		······································		
Aqua Terb Erc	. (10)	FOR I	NR OR COU	NTY USE ONLY	
Signature of Person Doing Work Date Signed	Date Rec	eived/hoper	led	District/County	
Street or Route 140 S. P. P. St. (4/14) 284 5.746	Reviewe	r/Inspector			
City, State, Zip Code	Follow-1	p Necessary			
PORT WASHENGTON WE 5307.4					

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DNR/COUNTY

State of Wisconsin Department of Natural Resources	WEI Form	L/DRILL 3300-5	HOLE ABA Rev. 6-87	NDONMENT	
(1) GENERAL INFORMATION	(2) FACILI	TY NAME			
Well/Drillhole Location B5-2 BURWETT	Original V	ell Owner (1	f Known)		
1/4 of 1/4 of Sec; T N; R W	Present W	ell Owner			
(If applicable) Gov't Lot Grid Number	Street or I	loute			
Civil Town Name, Ple SERVICE STREED	City, Stat	e, Zip Code	· · · ·		
Street Address of Well 400 Just Ford St. H. TO & Bankeline Baan	Well Num	ber and/or Na	ame (If Applicable	e)	
City, Village	Reason Fo	r Abandonm	ent		
Date of Abandonment $1 - 7 - 25$	/e	ST BE	1 To In	Porenet	
	<u> </u>	<i>a</i> . <i>(</i>			
WELL/DRILLHOLE INFORMATION			6 m ¹		
(Date) 6-7-90	(4) Depth to Pump & I	viller (Feet) Piping Remov	$\frac{0.5}{2}$	es 🔲 No 🗌 Not Applicable	
Water Well Construction Report Available?	Liner(s) R	emoved?	Y	es No Not Applicable	
Drillhole Yes DNo A Hachud	Screen Re Casing Le	moved? ft in Place?			
Construction Type:	If No,	Explain			
Driven (Sandpoint) Dug				• · · · · · · · · · · · · · · · · · · ·	
Other (Specify)	Was Casing Out Off Below Surface? Yes INo				
Well Type: K/A destuced point burger	Did Sealing Material Rise to Surface? Yes No Did Material Settle After 24 Hours? Yes No If Yes, Was Drillhole Retopped? Yes No (5) Required Method of Placing Sealing Material				
Unconsolidated Formation Well Bedrock Well					
Total Well Depth (fL) Casing Diameter (ins.)					
Casing Depth (ft.)	Conductor Pipe-Gravity, Conductor Pipe-Pumped				
Was Well Annular Space Grouted? Yes No Unknown	(6) Acceptab	le Sealing M	aterials		
If Yes, To What Depth? Feet	Neat Cerr Sodium B	ent Grout; entonite Slur	Concrete Grout;	Concrete; Clay Slurry;	
(7) Kind of Sealing Material	From (FL)	To (FL)	No. Yards or Sacks Sealant	Mix Ratio or Mud Weight	
Bonton fe	Surface	16.0		1007,	
		<u>-</u>			
		·			
(8) Comments:	î v	en koment	- <u>1997</u> - 1997		
(9) Name of Person or Firm Doing Sealing Work	T		<u> </u>		
Aqua Tech Inc	(10)	FOR D	NR OR COU	NTY USE ONLY	
Signature of Person Doing Work Date Signed	Date Rec	eived/Inspect	ed .	District/County	
Street or Route Telephone Number [40] S. Pare S.t. (414) Z24 57.46	Reviewer/Inspector				
City, State, Zip Code PORT WASHENGTON WE 53024	Follow-1	p Necessary		an an an an All Million An All Anna Anna An	

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DNR/COUNTY

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APPENDIX C

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Am		Mat	<u> </u>		10.90										Name Jim W	lertos / Aqua-Tech
Relinquis	réd by:	(Signal	ture)		Date / T	me	Receiv	ved by: (Signa	ature)			Da	te / Tin	ne	Street 140	S. Pauk St.
Relinquist	ed by:	(Signat	ure)		Date / T	me	Receiv	ved for Labora	atory by <i>: (S</i>	igna	ture)				- City Part Wash	ngton State Wz Zip 53C 74
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Remarks						1.	/						<u> </u>		Remarks	
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AQUA-TECK
GROCE LABORATORIES

ANALYTICAL LABORATORY REPORT

Sample 1:	102926 A-D
fustomer:	Robi Service Station
Date Sampled:	6-7-90
Dete Received:	6-11-90
Date Wanted:	6-21-90

1

Leb Director Approval: There & Value 6-20	2
All Contact Name:	

•· •

Simple Description	WBS-1	BS-2	WBS-2	WBS-2	.	
- 43.44ETER	2926 A	2926B	2926 C	Z926D	Tech 1D	Date Analy Completed
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total solids		70%		<u> </u>	15	6-12-0
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TPH- gasoline		<u>163,006 (1.</u>	9	80,700,012	YRH	6-12-9
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Tolvere	ND (1.0)	11.3 mb(1.0)	3020mgle (5	(a		
Ethnol benziere	ND (1.0)	R. Tunka (1.0)	RODALE 5	(00		
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	Detection	Limit is	in ()			
CORP Aqua 140 S	DRATE Tech. hc.	aton WI 53074	TREATMEN Groze Labi	NI FACILITY	51	

ATTACHMENT A

AQUA-TE CH GROCE LABORATORIES

January 31, 1990

Mr. Kevin Gehrmann Risk and Safety Management 751 Hill Farms State Office Building 4802 Sheboygan Avenue Madison, WI 53707-7915

Dear Mr. Gehrmann:

Enclosed please find the Environmental Site Assessment Report for the Bob's Service Station site, located on State Highway 70 in Falun, Wisconsin, Project No. 8040-03-00.

If you have any questions regarding this report, please do not hesitate to contact me.

Sincerely,

AQUA-TECH, INC.

1 Muts

James J. Mertes Technical Specialist

JJM/rk

Enclosure

123

CORPORATE Aqua Tech. Inc. 140 S. Park St. Port Washington, WI 53074 (414) 284-5746 FAX (414) 284-0243 TREATMENT FACILITY Groce Laboratories, Inc. 340 Robinson Rd. Greer, SC 29651 (803) 877-1048 FAX (803) 877-1872

ENVIRONMENTAL SITE ASSESSMENT REPORT

FOR THE

BOB'S SERVICE STATION SITE

STATE HIGHWAY 70

FALUN, WISCONSIN

JANUARY 1990

PREPARED FOR THE

WISCONSIN DEPARTMENT OF TRANSPORTATION

PROJECT 8040-03-00

AQUA-TECH, INC. 140 SOUTH PARK STREET PORT WASHINGTON, WISCONSIN 53074 ATI PROJECT NO. 91035

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SIGNATURE PAGE

FOR THE

ENVIRONMENTAL SITE ASSESSMENT REPORT

FOR THE

BOB'S SERVICE STATION SITE

STATE HIGHWAY 70

FALUN, WISCONSIN

WDOT PROJECT 8040-03-00

31/90 Date:

Prepared By:

Reviewed By:

Robert A. Ehlert Field Technician Aqua-Tech, Inc.

mte

31-90

James J. Mertes Technical Specialist Aqua-Tech, Inc.

1.5A:

IMAU BROM 7. Vance Jackson, Jr. Hydrogeologist

Aqua-Tech, Inc.

Date: 1/3/190

Date:

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1.0 SUMMARY

Aqua-Tech, Inc. has completed a phase II environmental site assessment of the Bob's Service Station site on State Highway 70, in Falun, Wisconsin. This assessment was contracted November 13, 1989 by the Wisconsin Department of Transportation (WDOT) Risk and Safety Management Section as part of WDOT Project 8040-03-00.

The purpose of the site assessment was to identify possible environmental contamination, within WDOT's proposed right-of-way associated with the underground storage tanks located at the site. The assessment included the following:

- * Regulatory background review
- Site representative interview
- Two subsurface soil borings to a maximum depth of 14 feet
- * Collection and field screening of the subsurface soil samples for volatile organic compounds
- * Chemical analysis of one subsurface soil sample for total petroleum hydrocarbons (TPH)
- Chemical analysis of two groundwater samples for volatile organic compounds

The laboratory results of this investigation indicate that THE SOILS AND GROUNDWATER WITHIN THE PROPOSED WDOT RIGHT-OF-WAY ACQUISITION AT THE SITE ARE CONTAMINATED BY PETROLEUM PRODUCT.

Aqua-Tech recommends that more EXTENSIVE MONITORING BE CONDUCTED at the site to determine the extent of contamination and the type of remediation necessary. Monitoring should be conducted in cooperation with property owners near the site after consulting with Wisconsin Department of Natural Resources officials.

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2.0 SITE BACKGROUND

2.1 Introduction

This section includes information obtained from the site reconnaissance inspection and regulatory background review.

2.2 Site Location

Bob's Service Station is an active vehicle service and gasoline station located on less than one acre of land in the unincorporated village of Falun, Wisconsin. It occupies a parcel of land on the south side of State Highway 70 approximately 400 feet east from the intersection of State Highway 70 and Range Line Road in Burnett County, Wisconsin (See Figure 2-1).

2.3 Site Geology

The site forms part of the pitted outwash left behind by the retreat of the Wisconsinan (Woodfordian) ice sheets. The site occupies what became Glacial Lake Duluth as glaciation waned. Consequiently, glaciation has been the primary agent determining the geology and physiography of the site.

The soils encountered in the test borings consist of glacially derived medium-coarse sands, gravels and grey clays.

Bedrock in the area is buried to varying depths by glacial deposits. Regionally, it consists of Cambrian age sandstones interbedded with some dolomite and shale.

Figure 2-1

SITE LOCATION



Surface topography at the site is flat (less than 1 percent slope) with adjacent topography sloping gently south toward the Wood River approximately 400 feet from the site.

Groundwater was encountered in test borings at depths of 11 to 12 feet, however, no hydraulic gradient was established. Based on the surface topography, groundwater appears to be flowing south across the Bob's Service Station site.

2.4 Site History

The property was the site of a creamery from 1931 to 1975. The site was purchased and converted to a gasoline and service station in 1975 by Robert Anderson, owner.

Two coated steel 10,000 gallon underground storage tanks containing leaded and unleaded gasoline were installed in 1975. The tanks are registered with the Wisconsin Department of Industry, Labor, and Human Relations (DILHR) Fire Prevention Section. See Appendix A for DILHR Inventory Forms.

2.5 Regulatory Review

The Bob's Service Station is not listed on the U.S. Environmental Protection Agency's CERCLIS inventory of potential uncontrolled hazardous waste sites. In addition, there are no regulatory response records of the site in the Wisconsin Department of Natural Resources files. These files include Wisconsin's List of Active and Abandoned Landfills, the Wisconsin Inventory of Sites or Facilities Which May Cause or Threaten to Cause Environmental

Pollution, and the Statewide Spills and Hazardous Incident Report for the period of January 1978 to June 1989.



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3.0 SITE ASSESSMENT PROCEDURES AND FIELD OBSERVATIONS

3.1 Introduction

This section outlines site assessment procedures and field observations of the environmental site assessment at Bob's Service Station site in Falun, Wisconsin. Individual subsections address the site representative interview, reconnaissance inspection, and sampling and chain of custody procedures. Rationales for specific assessment activities are also provided.

3.2 Site Representative Interview

James J. Mertes of Aqua-Tech, Inc. conducted an on-site interview with Robert Anderson, owner of the Bob's Service Station site on November 7, 1989. The purpose of the interview was to gain information useful in completing the environmental site assessment.

3.3 Reconnaissance Inspection

A reconnaissance inspection of Bob's Service Station site and surrounding areas was conducted on November 7, 1989. The reconnaissance inspection included a walk through of the site to determine appropriate sampling locations, taking into consideration the tank bed location, underground and overhead utilities, and site accessibility.

Reconnaissance Inspection Observations

The Bob's Service Station site is located in a rural commercial district interspersed with residential housing in Falun, Wisconsin. The site is bounded to the north by State Highway 70. The boundaries to the south, west and east are surveyed property lines. The site is surrounded by adjacent

FIGURE 3-1 Site Features and Sampling L stions



14 foot depth interval approximately 15 feet north of the pump island.

Soil samples were not collected for laboratory analysis from boring B-1 because no VOCs were indicated by screening the soils with a photoionization meter.

Subsurface soil samples were collected with a truckmounted rotary drill equipped with hollow stem augers and 2 inch diameter, 24 inch split spoon sampler. The split spoon sampler was advanced by conventional methods, including the attachment of the sampler to an AW rod and standard 140 pound hammer.

All drilling tools and equipment were washed with highpressure steam equipment prior to the start of sampling work. All sampling tools were washed with an alconox and reagent water solution between sample points to prevent cross-contamination within the boring.

A preliminary survey was conducted by screening samples with a photoionization meter immediately upon opening the split spoon sampling tube. Results from the survey were used to select the most contaminated soils from each boring for laboratory analysis. Data from the preliminary survey is recorded on the soil profile logs in Appendix C.

After lithologic logging (See Appendix C), the selected samples were stored in clean 4 ounce jars and cooled to 4°C for transport to the laboratory.

Upon completion of sampling, the boreholes were backfilled with bentonite mixture and surface concrete was patched where necessary.

Subsurface soil sample B-2 was analyzed for total petroleum hydrocarbons (TPH) at the NET Midwest laboratory in Rockford, Illinois by the California GC Method.

Groundwater Sampling Procedures

Groundwater samples WB-1 and WB-2 were collectd to determine whether any gasoline components had migrated from the tank bed area via groundwater (See Figure 3-1). Samples were collected from borings B-1 and B-2 respectively, by inserting a clean stainless steel bailer down the hollow stem augers and transferring the contents to two 40 ml. glass vials. The vials were then sealed, taking care to ensure no air was included, and cooled to 4°C for transport to the laboratory.

All water samples were analyzed for volatile organic compounds by the NET Midwest laboratory in Rockford, Illinois by EPA Method 8240.

3.4 Chain of Custody Procedures

This section describes procedures used for sample identification and chain of custody. The purpose of these procedures was to ensure that the quality of the samples was maintained during their collection, transportation, storage, and analysis.

Sample identification documents were carefully prepared so that sample identification and chain of custody was maintained and sample disposition controlled. Sample

identification documents included:

- * Field Notebooks
- * Sample Labels
- * Chain of Custody Records

Each sample was labeled, physically preserved, and sealed immediately after collection. To minimize handling of sample containers, labels were filled out prior to sample collection. The sample label was completed using waterproof ink and was firmly affixed to the sample containers. The sample label provided the following information:

- * Location
- * Sample Number
- * Date and Time of Collection
- * Analysis Required
- * Name of Sampler

A Chain of Custody Record (See Appendix D) was fully completed in duplicate by the Aqua-Tech sampler immediately following sample collection.

Transfer of Custody Shipment

The coolers in which the samples were packed were accompanied by the Chain of Custody Record. When transferring samples, the individuals relinquishing and receiving them signed, dated, and noted the time on the Chain of Custody Record. This record documents sample custody.

Laboratory Custody Procedures

A designated sample custodian accepted custody of the shipped samples and verified that the sample identification number matched that on the Chain of Custody Record. A copy of the completed Chain of Custody Record was retained by the laboratory until analyses were completed. The record was then transferred to the site file with the analytical results.

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4.0 ANALYTICAL PROCEDURES AND RESULTS

4.1 Introduction

This section includes results of chemical analysis of the subsurface soil sample and groundwater sample for total petroleum hydrocarbons (TPH) and volatile organic compounds respectively.

4.2 Analytical Procedures

Samples were analyzed by the NET Midwest laboratory in Rockford, Illinois by methods referenced in Section 3.3.

Methodology references contain specific QC criteria associated with the particular methods. These specific requirements include calibration and QC samples and are described in detail within the methods. Daily performance tests and demonstration of precision and accuracy are required.

- 4.3 Results of Chemical Analysis of Aqua-Tech Collected Samples Chemical analysis of the soil sample yielded the following results:
 - Subsurface sample B-2 was contaminated at the level of 20 ug/g TPH as diesel

All results are calculated on a dry weight basis as required by the Wisconsin Department of Industry, Labor and Human Relations (DILHR). See Table 4-1 for complete soil sample analysis results. Original laboratory data is provided in Appendix E.

TABLE 4-1

BOB'S SERVICE STATION SITE

SUBSURFACE SOIL SAMPLE ANALYSIS RESULTS.

Soil	Depth Interval	Field Photoionization	TPH* ug/g
Sample	(feet)	level (ppm)	
в-2	12 - 14	2	20(as diesel)

- * Results reported on a dry weight basis.
- ** 10 ug/g is the maximum amount of TPH contaminants allowed in soil before remediation is required by the Wisconsin Department of Industry, Labor and Human Relations (DILHR).



Chemical analysis of groundwater samples yielded the following :

 No volatile organic compounds (VOC's) were identified in sample WB-1 above the laboratory detection limits.

* Petroleum components were identified in sample
 WB-2 at the following levels: benzene (4.3 ug/l),
 ethylbenzene (5.2 ug/l), and xylenes (5.0 ug/l).
 See Table 4-2 for complete groundwater analysis
 results. Original laboratory data is provided in

Appendix F.





TABLE 4-2

BOB'S SERVICE STATION SITE

GROUNDWATER SAMPLE ANALYSIS RESULTS**

Groundwater Sample	Field Photoionization level (ppm)	Benzene (ug/1)	Ethylbenzene (ug/l)	Xylenes (ug/l)
WB-1	0	<1.0	<1.0	<1.0
WB-2	6	4.3	5.2	5.0

** Samples were analyzed for additional volatile organic compounds. No compounds were identified above the laboratory detection limits. Original laboratory data is provided in Appendix F.

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5.0 DISCUSSION OF ASSESSMENT RESULTS

5.1 Introduction

This section discusses data and information that apply to observed and potential contamination that may be attributable to the Bob's Service Station site.

5.2 Soil

TPH as diesel contamination was identified in boring B-2 at the site above the DILHR 10 ug/g remedial action level.

No volatile organic compounds were identified by field screening subsurface soil samples with a photoionization meter from boring B-1.

Extensive petroleum contamination was identified at a former gasoline and service station (Hedlund DX) bordering the Bob's Service Station site to the west. Based on the location of borings and contaminant levels identified, this suggests contamination may be migrating to the Bob's Service Station site from off site. However, TPH was qualified as diesel at Bob's Service Station and TPH was qualified as gasoline at the bordering property.

Soil appeared to be contaminated only near or below the water table at the Bob's Service Station site, suggesting that contaminants are migrating via groundwater.

5.3 Groundwater

The groundwater table was encountered in the test borings at depths of 11 to 12 feet. Laboratory analysis of sample WB-2 revealed a benzene level of 4.3 ug/g. This

exceeds the Wisconsin Administrative Code NR 140 Groundwater Quality Enforcement Standard as outlined in Table 4-3.

No groundwater contaminants were identified in sample WB-1 collected east of WB-2 within the proposed WDOT rightof-way.



TABLE 4-3

WISCONSIN ADMINISTRATIVE CODE

CHAPTER N.R. 140

GROUNDWATER QUALITY STANDARDS

Substance	Enforcement Standard (micrograms per liter)	Preventative Action Limit (micrograms per liter)
Benzene	0.67	0.067
Ethylbenzene	1360	272
Toluene	343	68.6
Xylene	620	124

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6.0 RECOMMENDATIONS

After completing the initial environmental assessment at the Bob's Service Station site, Aqua-Tech recommends that additional soil and groundwater monitoring be conducted to determine the most practical solution for site remediation.

Soil and groundwater contamination have been identified within the proposed right-of-way acquisition at the site. Substantial contamination has been identified on property bordering the Bob's Service Station site to the west (Hedlund DX) by a separate assessment conducted by Aqua-Tech. It is recommended that additional monitoring be conducted in coordination with site owners and the Wisconsin Department of Natural Resources to define the areal extent of contamination.

An estimate for the cost of site remediation is not possible until the extent of contamination has been identified. However, it is recommended that remediation be undertaken on the WDOT right-of-way and proposed right-of-way at the same time that surrounding properties are remediated.

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APPENDIX A

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Wisconsin Department of Industry, Labor and Human Relations

For Office	Use Only:	
Tank ID #	07023	.28

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Send Completed Form To: Safety & Buildings Div. Fire Prevention Section P.O. Box 7969 Madison, WI 53707 Telephone (608) 266-7874

Instructions

This form is to be completed pursuant to Section 101.142, Wis. Stats., to register all underground tanks in Wisconsin that have stored, currently store or will store petroleum or regulated substances. 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 (including 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.

1.1.1.

This Individual Tank	· ·	•	1.
Registration Applies	•		2.
To (check one):	۹	•	· 3.
			4.

Tank still in active use

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5.

Inoperative or abandoned tank with product still in tank Inoperative or abandoned tank with no known product in tank Location for which tank has been removed New tank to be installed (provide date):

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	OAC	ETV	2	21	DC	22	DIV.	

DE

A. IDENTIFICATION				• • • •
1. Name of Installation		2. Name for Mailing if Different	Than #1	•
Bubs SERVILE				
Street Address of Installation	Mailing Address if Different T	han #1		
RT Boy 715				·
City Village I Tow	n of: Dry i = んう		llage 🗌 T	own of:
State Zip Code State S 4872	County BURNETT	State	Zip Code	County
3. Name of Contact Person		4. Name of Owner if Different fr	om#3	
Robert P Proderson				
Street Address	· · · · · · · · · · · · · · · · · · ·	Street Address		
RT 1 Bax 718			•	
City Village Tow	n of:		lage 🛛 T	own of:
State Zip Code	County	State	Zip Code	County
Telephone Number (include area code)		Telephone Number (include a	I vrea code)	I
1-715-689-2445 OR :	2584			
5. Fire Department Name and ID #	6. Tank Age (date in	stalled, if known: or years old)	7. If Tank Abandon	ed. Give Date (mo / dav / vr)
GRANISHUND (4)	1975			
8. Tank Capacity	9. Tank Manufacturer's Nan	ne. if known:		
(in gallons)	Bennar	\sim		
B. TANK CONSTRUCTION:		-		
	shadiaally Deatastad Cta	al		ad Staal
	thodically Protected Ste	ei	3. K Coat	
	ner (specify):			
C. TANK CONTENTS:			•	
1. 🗌 Diesel 2. 💹 Lea	aded Gasoline	3. Unleaded Gasoline	2	
4. 🗌 Fuel Oil 5. 🛄 Ga	sohol	6. Other (specify);		
· ·		······································	•	
D. TYPE OF USER (check one):				
1. 🖾 Cas Station 2. 🗌 Bul	k Storage	3. 🔲 Utility	4. 🗌 Merc	antile
5. Industrial 6. Co	vernment	7. School	8. Resid	lential
9. Agricultural 10. Ot	her (specify):			
••• _ ••				······································
Signature of Person Completing Form:		Date Completed:		
(Taket P anderse	•	2-11-86		
SBD-7437 (N. 04/85)	·····			

Wisconsin Department of Industry, L. or and Human Relations

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For Office Use Only:	
Tank ID # (07023	<u><u></u></u>

UNDERGROUND PETROLEUM PRODUCT

TANK INVENTORY

Send Completed Form To: Safety & Buildings Div. Fire Prevention Section P.O. Box 7969 Madison, WI 53707 Telephone (608) 266-7874

Instructions

This form is to be completed pursuant to Section 101.142, Wis. Stats., to register all underground tanks in Wisconsin that have⁴ stored, currently store or will store petroleum or regulated substances. 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 (including 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.

This Individual Tank1.Image: Tank still in active usRegistration Applies2.Inoperative or abandTo (check one):3.Inoperative or aband4.Location for which t5.New tank to be instance	se doned tank with product still in doned tank with no known proc ank has been removed alled (provide date):	tank duct in tank FE	ECEIVED B 24 1986 TY 3 BLDGS_DIV.
A. IDENTIFICATION 1. Name of Installation Stack 5 Stack + 5 C	2 Name for Mailing if Different	Than # 1	
Street Address of Installation ${}^{*}\mathcal{R} \mid \mathcal{R} \notin \mathcal{R} \mid \mathcal{R} \notin \mathcal{R}$	Mailing Address if Different T	han #1	
City ∇ Village ∇ Town of: $\nabla A N i = 4.5$		lage Т	own of:
State Zip Code County State State Built #717	State	Zip Code	County
3. Name of Contact Person Tobar 21 P Airelerson	4. Name of Owner if Different fi	om #3	
Street Address	Street Address		
City Village Town of:		lage Пт	own of:
State Zip Code County UI 54872 Juleive TT	State	Zip Code	County
Telephone Number (include area code) ノー フノ S - 6 8 9 - ユ 4 4 5 コニ スジメメ	Telephone Number (include a	area code)	
5. Fire Department Name and ID # 6. Tank Age (da	te installed, if known; or years old)	7. If Tank Abandon	ed, Give Date (mo / day / yr)
Kr K / / 3 / 4 / 4 / 00 (7 / 7 8. Tank Capacity 9. Tank Manufacturer's	s Name, if known.		
	;_ ,		······································
1. Bare Steel 2. Cathodically Protected 4. Fiberglass 5. Other (specify):	Steel	3. 🛛 Coat	ed Steel
C. TANK CONTENTS: 1. Diesel 2. Leaded Gasoline 4. Fuel Oil 5. Gasohol	3. 🔀 Unleaded Gasoline 6. 🗌 Other (specify):	e	
D. TYPE OF USER (check one): 1. A Gas Station 2. Bulk Storage 5. Industrial 6. Government 9. Agricultural 10. Other (specify):	3. Utility 7. School	4. 🗌 Merc 8. 🗌 Resic	cantile dential
Signature of Person Completing Form:	Date Completed: 2 - 11 - 8 b	<u></u>	



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FIELD PHOTOGRAPHY LOC	SHEET
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SITE NAME: Bob's Serv	ice Station, Falun, Wisconsin	PAGE 1 OF 2
U.S. EPA ID:		
DATE: > 11/7/89		
TIME: > 1:30 P.M.		
DIRECTION OF		
> South		
WEATHER		
> Clouds		
> 45°F		
PHOTOGRAPHED BY:		
SAMPLE ID (if applicable):		
> N/A		
DESCRIPTION: > View s	howing west side of Bob's Servi	ce Station, Hedland DX is
> in the right foregr	round.	
<u>></u>		
DATE: > 11/7/89		
TIME: > 1;30 P.M.		
DIRECTION OF		
PHOTOGRAPH:		
> Southeast		
WEATHER		
CONDITIONS:		
<u>> 45°F</u>		
PHOTOGRAPHED BY:		and a second second second second second second second second second second second second second second second Second second
> Mitch Evenson		
SAMPLE ID		
(if applicable):		
> N/A		
DESCRIPTION: View	of pump islands and close provid	nity to STH 70.

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FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Bob's Ser	rvice Station, Falun, Wisconsin	PAGE 2 OF 2
U.S. EPA ID:		
DATE: > 11/7/89		
TIME: > 1:30 P.M.		
DIRECTION OF PHOTOGRAPH: > Southeast		
WEATHER CONDITIONS: > Clouds		
> 45°F		
<pre>PHOTOGRAPHED BY: > Mitch Evenson</pre>		
SAMPLE ID (if applicable):		
DESCRIPTION: > View	showing nearest residence to site.	
>		
>		

DATE: <u>></u>		
TIME: >		
DIRECTION OF PHOTOGRAPH:		
WEATHER CONDITIONS:		
>		
PHOTOGRAPHED BY:		
SAMPLE ID (if applicable): >		
DESCRIPTION: >		
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APPENDIX C

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•	· · · ·	Shoot is of
•	Aqua SC	IL PROFILE LOG Aqua-Tech, Incorporated 140 S. Park Street Port Washington, WI 53074
	Tech Loc	Otion Falun, Wisconsin Telephone: 8040-03-00 (414) 284-5746 8040-03-00 (414) 375-0407 (Milw Metro)
•	Boring #	Surfoce Elevotion
	No. R HNU No. R HNU Levels	Description and Remarks
	Dry 0	0.0 0.0' - 3.0' Sand and Gravel
	O	5.0 3.0' - 6.0' Sand
	0	6.0' - 11.0' Grey Clay
	<u>WB-1 Wet 0</u>	12.0 11.0' - 12.0' Gravel and Sand Terminated Boring at 12.0' No Bedrock Encountered Groundwater Encountered at 11.0' Groundwater Sample WB-1 Collected at 11.0' - 12.0'
	Water Level Observation While Drilling Depth to Water Depth to Cove-in	Stort Dote 11/7/89 Drilling Method HOLLOw Stem Auger Completion Dote 11/7/89 Logger Jaw

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Aqua Tech	SOIL Project Location	PROFILELOGAqua-Tech, IncorporatedBob's Service Station140 S. Park StreetFalun, WisconsinPort Washington, WI 53074B040-03-00140 S. Park StreetWisconsin140 S. Park StreetMathematical Street140 S. Park StreetMathematical Street140 S. Park StreetPort Washington, WI 53074140 S. Park StreetMathematical Street140 S. Park StreetPort Washington, WI 530741414Street1414 <t< td=""></t<>				
Boring #		Surface Elevation				
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na an an an an an an an an an an an an a	0 _ 5.0 _	3.0' - 6.0' Sand				
	0	6.0' - 10.0' Grey Clay				
	1	10.0' - 14.0' Sand				
B-2 Wet	2 14.0					
	_ 15.0_	Terminated Boring at 14.0' No Bedrock Encountered. Groundwater Encountered at 12.0' Groundwater HNU Level 6 ppm				
		Soil Sample B-2 Collected at 12.0' - 14.0'				
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Distribution: White - Accompanies Shipment: Yellow - Laboratory File; Pink - Coordinator Field Files



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APPENDIX E

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NATIONAL ENVIRONMENTAL TESTING, INC. NET Midwest, Inc. Rockford Division 3548 35th Street Rockford, IL 61109 Tel: (815) 874-2171 Fax: (815) 874-5622

ANALYTICAL REPORT

Mr. Mitch Evenson AQUA-TECH INC. 140 South Park Street Port Washington WI 53074 12-01-89

Sample No: 67913

SAMPLE DESCRIPTION: B-2 12-14', Grab Soil DOT-Bob's Service Station Date Taken: 11-07-89 Date Received: 11-09-89 1230

Tot.Pet.Hydrocarbons (GC) 20. (as diesel)

ug/g

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Toni Gartner, Manager Rockford Division

APPENDIX F

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NATIONAL ENVIRONMENTAL TESTING, INC. NET Midwest, Inc. Rockford Division 3548 35th Street Rockford, IL 61109 Tel: (815) 874-2171 Fax: (815) 874-5622

ANALYTICAL REPORT

Mr. Mitch Evenson AQUA-TECH INC. 140 South Park Street Port Washington WI 53074 11-21-89

Sample No: 67911

SAMPLE DESCRIPTION: WB-1, Grab Water DOT-Bobs Service Station Date Taken: 11-07-89 Date Received: 11-09-89 1230

VOLATILE COMPOUNDS

Acrolein <10. ug/L Acrylonitrile <10. ug/L Benzene <1.0 ug/L Bromodichloromethane <1.0 ug/L Bromodichloromethane <1.0 ug/L Bromoform <1.0 ug/L Bromomethane <10. ug/L Carbon tetrachloride <1.0 ug/L Chlorobenzene <1.0 ug/L Chlorobethane <10. ug/L 2-Chloroethyl vinyl ether <1.0 ug/L Chloroform <1.0 ug/L Chloromethane <1.0 ug/L Chlorobenzene <1.0 ug/L 1,2-Dichlorobenzene <1.0 ug/L 1,3-Dichlorobenzene <1.0 ug/L 1,4-Dichlorobenzene <1.0 ug/L 1,2-Dichloroethane <1.0 ug/L 1,2-Dichloroethane <1.0 ug/L 1,2-Dichloroethene <1.0 ug/L 1,2-Dichloroethene <1.0 ug/L 1,2-Dichloropropane <1.0 ug/L 1,2-Dichloropropane </th <th></th> <th></th> <th></th>			
Acrylonitrile<10.ug/LBenzene<1.0	Acrolein	<10.	ug/L
Benzene <1.0	Acrylonitrile	<10.	ug/L
Bromodichloromethane<1.0ug/LBromoform<1.0	Benzene	<1.0	ug/L
Bromoform<1.0ug/LBromomethane<10.	Bromodichloromethane	<1.0	ug/L
Bromomethane<10.ug/LCarbon tetrachloride<1.0	Bromoform	<1.0	ug/L
Carbon tetrachloride<1.0ug/LChlorobenzene<1.0	Bromomethane	<10.	ug/L
Chlorobenzene<1.0ug/LChloroethane<10.	Carbon tetrachloride	<1.0	ug/L
Chloroethane<10.ug/L2-Chloroethyl vinyl ether<1.0	Chlorobenzene	<1.0	ug/L
2-Chloroethyl vinyl ether<1.0	Chloroethane	<10.	ug/L
Chloroform<1.0ug/LChloromethane<10.	2-Chloroethyl vinyl ether	<1.0	ug/L
Chloromethane<10.ug/LDibromochloromethane<1.0	Chloroform	<1.0	ug/L
Dibromochloromethane<1.0ug/L1,2-Dichlorobenzene<1.0	Chloromethane	<10.	ug/L
1,2-Dichlorobenzene<1.0	Dibromochloromethane	<1.0	ug/L
1,3-Dichlorobenzene<1.0	1,2-Dichlorobenzene	<1.0	ug/L
1,4-Dichlorobenzene<1.0	1,3-Dichlorobenzene	<1.0	ug/L
Dichlorodifluoromethane<10.ug/L1,1-Dichloroethane<1.0	1,4-Dichlorobenzene	<1.0	ug/L
1,1-Dichloroethane<1.0	Dichlorodifluoromethane	<10.	ug/L
1,2-Dichloroethane<1.0	1,1-Dichloroethane	<1.0	ug/L
1,1-Dichloroethene<1.0	1,2-Dichloroethane	<1.0	ug/L
trans-1,2-Dichloroethene<1.0ug/Lcis-1,2-Dichloroethene<1.0	1,1-Dichloroethene	<1.0	ug/L
cis-1,2-Dichloroethene<1.0ug/L1,2-Dichloropropane<1.0	trans-1,2-Dichloroethene	<1.0	ug/L
1,2-Dichloropropane<1.0	cis-1,2-Dichloroethene	<1.0	ug/L
cis-1,3-Dichloropropene <1.0 ug/L trans-1,3-Dichloropropene <1.0 ug/L	1,2-Dichloropropane	<1.0	ug/L
trans-1,3-Dichloropropene <1.0 ug/L	cis-1,3-Dichloropropene	<1.0	ug/L
	trans-1,3-Dichloropropene	<1.0	ug/L

Tori Gartner, Manager Rockford Division

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NET Midwest, Inc. Rockford Division 3548 35th Street Rockford, IL 61109 Tel: (815) 874-2171 Fax: (815) 874-5622

ANALYTICAL REPORT

Mr. Mitch Evenson AQUA-TECH INC. 140 South Park Street Port Washington WI 53074 11-21-89

Sample No: 67911

SAMPLE DESCR	RIPTION:	WB-1, Grab Water				
Date Taken:	11-07-89	DOI-BODS SERVICE SU	Date Receive		d: 11-09-89 1	
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Ethylbenze Methylene	ne chloride	<1.0 <5.0		u 	ng/L	

Methylene chioride	\J\\	
1,1,2,2-Tetrachloroethane	<1.0	ug/L
Tetrachloroethene	<1.0	ug/L
Toluene	<1.0	ug/L
1,1,1-Trichloroethane	<1.0	ug/L
1,1,2-Trichloroethane	<1.0	ug/L
Trichloroethene	<1.0	ug/L
Trichlorofluoromethane	<1.0	ug/L
Vinyl chloride	<10.	ug/L
Xylenes	<1.0	ug/L

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Toni Gartner, Manager Rockford Division
NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc. **Rockford Division** 3548 35th Street Rockford, IL 61109 Tel: (815) 874-2171 Fax: (815) 874-5622

ANALYTICAL REPORT

Mr. Mitch Evenson AQUA-TECH INC. 140 South Park Street Port Washington WI 53074 11-21-89

Sample No: 67912

WB-2, Grab Water DOT-Bobs Service Station

Date Taken: 11-07-89

SAMPLE DESCRIPTION:

Date Received: 11-09-89 1230

VOLATILE COMPOUNDS

Acrolein	<10.	ug/L
Acrylonitrile	<10.	ug/L
Benzene	4.3	ug/L
Bromodichloromethane	<1.0	ug/L
Bromoform	<1.0	ug/L
Bromomethane	<10.	ug/L
Carbon tetrachloride	<1.0	ug/L
Chlorobenzene	<1.0	ug/L
Chloroethane	<10.	ug/L
2-Chloroethyl vinyl ether	<1.0	ug/L
Chloroform	<1.0	ug/L
Chloromethane	<10.	ug/L
Dibromochloromethane	<1.0	ug/L
1,2-Dichlorobenzene	<1.0	ug/L
1,3-Dichlorobenzene	<1.0	ug/L
1,4-Dichlorobenzene	<1.0	ug/L
Dichlorodifluoromethane	<10.	ug/L
1,1-Dichloroethane	<1.0	ug/L
1,2-Dichloroethane	<1.0	ug/L
1,1-Dichloroethene	<1.0	ug/L
trans-1,2-Dichloroethene	<1.0	ug/L
cis-1,2-Dichloroethene	<1.0	ug/L
1,2-Dichloropropane	<1.0	ug/L
cis-1,3-Dichloropropene	<1.0	ug/L
trans-1,3-Dichloropropene	<1.0	ug/L

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Toni Gartner, Manager Rockford Division

NET Midwest, Inc. Rockford Division 3548 35th Street Rockford, IL 61109 Tel: (815) 874-2171 Fax: (815) 874-5622

ANALYTICAL REPORT

NATIONAL ENVIRONMENTAL TESTING, INC.

Mr. Mitch Evenson AQUA-TECH INC. 140 South Park Street Port Washington WI 53074

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11-21-89

Sample No: 67912

SAMPLE DESCRIPTION: WB-2, Grab Water DOT-Bobs Service Station Date Taken: 11-07-89 Date Received: 11-09-89 1230

5.2	ug/L
<5.0	ug/L
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Toni Gartner, Manager Rockford Division