REMEDIAL INVESTIGATION BOB'S SERVICE STATION FALUN, WISCONSIN NWD LUST ID NO. 148

PREPARED FOR:

ROBERT ANDERSON FALUN, WISCONSIN

MAY 1996



Recidos/25/96 Brule

REMEDIAL INVESTIGATION BOB'S SERVICE STATION FALUN, WISCONSIN NWD LUST ID No. 148

> THIS REPORT PREPARED BY: AYRES ASSOCIATES

2/96 fills 51

James C. Hicks, Environmental Tech. PECFA Registration No. 00164

16192

Joseph F. Hoeme, E.I.T. Environmental Engineer PECFA Registration No. 06303

5-10-96 mille

Lori A. Rosemore, P.G. Hydrogeologist PECFA Registration No. 03818

REVIEWED BY:

Jan M. Smit 51696

Jan M. Smit, P.E., Civil Engineer PECFA Registration No. 01987



3433 Oakwood Hills Parkway P.O. Box 1590 Eau Claire, WI 54702-1590 (715) 834-3161, FAX (715) 831-7500

Ayres Project No. 10-0232.00 j:\jfh\960405z.doc

TABLE OF CONTENTS

PAGE NO.

EXEC	UTIVE SL	JMMARY	1						
1.0	INTROD	DUCTION	2						
1.1	PURPOSE								
1.2	BACKG	ROUND	2						
	1.2.1 1.2.2 1.2.3	Project Information Site History Chronology of Remedial Investigation Events	2 3 4						
2.0	REGION	AL SETTING	5						
2.1	TOPOG	RAPHY	5						
2.2	SURFAC	CE WATER AND DRAINAGE	5						
2.3	SOILS A	ND GEOLOGY	5						
2.4	HYDRO	GEOLOGY	5						
3.0	SITE IN		6						
3.1	GENER	AL	6						
3.2	TEST PI	ITS	6						
3.3	SOIL BO	DRINGS	6						
	3.3.1	Installation and Sample Collection	6						
3.4	GROUN	ID WATER SAMPLING	7						
4.0	RESUL	rs	7						
4.1	SOIL SA	AMPLING	7						
4.2	GROUN	ID WATER SAMPLING RESULTS	7						
	4.2.1	Ground Water Flow Direction	8						
5.0	DISCUS	SION	8						
6.0	CONCL	USIONS	8						

TABLE OF CONTENTS (Cont.)

<u>PAGE NO.</u>

7.0	REMEDIAL ALTERNATIVE EVALUATIONS	9
7.1	GENERAL	9
8.0	RECOMMENDATIONS	12
9.0	STANDARD OF CARE	13
10.0	NR 712.09 SUBMITTAL CERTIFICATION	13

LIST OF FIGURES

FIGURE NO.		PAGE NO.
1	Location Map	. 15
2	Site Plan	. 16
3	Ground Water ContoursOctober 30, 1995	. 17

LIST OF TABLES

<u>TABLE NO.</u>	I	PAGE NO
1	Soil Analytical Results	18-19
2	Ground Water Analytical Results	20
3	Remedial Alternative Opinion of Probable Costs	21

LIST OF APPENDICES

<u>APPENDIX</u>

- A Correspondence
- B Soil Boring Logs and Abandonment Forms
- C Field Procedures
- D Soil Analytical Results
- E Ground Water Analytical Results
- F Monitoring Well Construction and Development Forms
- G Opinions of Probable Remediation Costs

EXECUTIVE SUMMARY

INVESTIGATION

Ayres Associates conducted a remedial investigation at Bob's Service Station in Falun, Wisconsin. The investigation included the installation of six test pits and five soil borings. Organic vapor screening of soil samples collected at each boring location resulted in photo ionization detector (PID) responses ranging from no response to 1,176 instrument units as isobutylene gas.

Soil and ground water samples collected for quantitative analysis were sent to Mid-State Associates, Inc., and analyzed for gasoline range organics (GRO), volatile organic compounds (VOCs), and lead.

CONCLUSION

Based on qualitative and quantitative analysis of soil and ground water samples collected as part of this remedial investigation, and information obtained from previous on-site investigations, Ayres Associates makes the following conclusions.

- Soil petroleum contamination, in excess of NR 720 Soil Cleanup Standards, due to the former on-site underground storage tanks (USTs) and related piping is present at this site. This contamination is one of two plumes on the site.
- The other plume of petroleum contamination, in excess of NR 720 Soil Cleanup Standards, has migrated onto this property from the Hedlund property, a former gas station, which is adjacent to and directly west of this site.
- Soil contamination in the plume resulting from the gasoline spill from the former USTs has much lower concentrations than are found in the plume migrating from the Hedlund property.
- The contamination plumes may have commingled.
- No petroleum contamination was found in the test pit installed near the 2,000-gallon waste oil UST.
- No ground water contamination was documented on site during the investigation.

RECOMMENDATIONS

Based on the remedial alternatives analysis, we recommend that the contaminated soil be excavated and hauled for disposal. The treatment option would be asphalt incorporation, biopile treatment, or thermal desorption, depending on the lowest bid received. We also recommend that this excavation be conducted on or after such time that the remediation of petroleum contamination from the Hedlund property is conducted. If Mr. Anderson remediates the contamination caused by his USTs before the Hedlund contamination is remediated, the Hedlund contamination could possibly spread into the clean backfill on Mr. Anderson's property.

1.0 INTRODUCTION

1.1 <u>PURPOSE</u>

This report documents the technical findings of a remedial investigation performed by Ayres Associates at Bob's Service Station, 10545 STH 70, Falun, Wisconsin. This report also presents conclusions, remedial alternatives, and recommendations relative to the extent of soil and ground water contamination at the site. The project site is in Burnett County in the NW 1/4 of the NW 1/4, Section 19, Township 38 North, Range 17 West. Figure 1, Falun 7.5 Minute United States Geological Survey (USGS) Topographic Map (1984), shows the regional setting of the site.

Ayres Associates will submit this report, together with supporting cost information, to the Wisconsin Department of Industry, Labor and Human Relations (DILHR) for cost reimbursement to the owner under the Wisconsin Petroleum Environmental Cleanup Fund Act (PECFA).

1.2 BACKGROUND

1.2.1 <u>Project Information</u>

Pertinent information for the project is as follows:

Project Mailing Address and Site Owner:

Bob's Service Station 10545 STH 70 Siren, WI 54872 Telephone (715) 689-2445

Robert Anderson, Owner 10531 STH 70 Siren, WI 54872 Telephone (715) 689-2445

NWD LUST Case Number:

148

DILHR PECFA Claim Number:

54872-8522-31

Consultant:

Ayres Associates 3433 Oakwood Hills Parkway P.O. Box 1590 Eau Claire, WI 54702-1590 Telephone (715) 834-3161 Jan M. Smit, P.E., Project Manager Joseph F. Hoeme, E.I.T., Environmental Engineer James C. Hicks, Environmental Technician Lori A. Rosemore, P.G., Hydrogeologist

Regulatory Contact:

Wisconsin Department of Natural Resources Route 2, Box 125 Brule, WI 54820 Telephone (715) 372-4866 Christopher A. Saari, Hydrogeologist

1.2.2 <u>Site History</u>

Bob's Service Station is an active automobile repair shop. The site was a creamery from 1931 to 1975. In 1975, Mr. Anderson converted it to a gasoline service station and installed the gasoline tanks. Gasoline was dispensed at the site until June 1993. The dispensing system consisted of two 10,000-gallon underground storage tanks (USTs) (one unleaded gasoline tank and one regular leaded gasoline tank) plumbed to a pump island containing two dispensers.

In 1989, Aqua-Tech, Inc., conducted an environmental site assessment for the Wisconsin Department of Transportation. Laboratory analysis detected petroleum contamination in both the ground water and soil samples from soil boring DB-2, installed north of the former pump island at Bob's Service Station. The concentrations of petroleum volatile organic compounds (PVOCs) in the ground water were below the Enforcement Standards (ES) of the Wisconsin Department of Natural Resources (WDNR). However, benzene was present at a concentration of 4.3 parts per billion (ppb), which is above the NR 140 Preventive Action Limit (PAL) of 0.5 ppb. Other detects were low. The soil sample contained 20 ppm total petroleum hydrocarbons (TPH) as diesel at a depth of 12 to 14 feet below ground surface. No petroleum contamination was detected in the ground water and soil samples from soil boring DB-1, installed east of DB-2. Mr. Anderson has stated that he never sold diesel fuel on his property.

The USTs were pumped as dry as possible in anticipation of tank removal in June 1993. Mr. John Foster, a DILHR representative, was contacted for the tank inspection at the site. Mr. Foster stated he could not be present at the site until July 14, 1993. On June 20, 1993, elevated ground water pushed the nearly empty tanks from the ground. On July 4, 1993, the tanks overturned and approximately 200 gallons of gasoline was spilled. Mr. Anderson called the WDNR to report the release. The WDNR retained Bay West, Inc., of St. Paul, Minnesota, to perform emergency remediation measures to limit the environmental impacts of the release. Bay West, Inc., pumped the water and free product from the area where the tanks were located.

The two USTs and associated piping were removed from the site by Oachs Construction of Grantsburg, Wisconsin, on July 16, 19, and 20, 1993. A tank closure site assessment report dated September 30, 1993, was completed by Cooper Engineering Company, Inc. This report documents that contamination by petroleum hydrocarbons was encountered during removal of the USTs. A soil sample collected under the former west pump had no odor and had a gasoline range organic (GRO) concentration of less than 10 ppm. A soil sample collected beneath the former east pump had no odor and had a concentration of only 13 ppm GRO.

One 2,000-gallon waste oil aboveground storage tank (AST) remains on site. Figure 2 shows the location of the two former USTs and the active AST.

On the property adjacent and west of Bob's Service Station is an abandoned DX gasoline station owned by Mr. Carl Hedlund. According to the April 2, 1990, WDNR letter in Appendix A, petroleum contamination was observed when the USTs were removed at the Hedlund site in 1980. The 1,000-gallon gasoline UST to the east of the former DX station (see Figure 2) was owned by Mr. Hedlund, but located on Mr. Anderson's property. In December 1990, Foth & Van Dyke installed soil borings and monitoring wells at the Hedlund site. Soil samples collected from soil boring HB-3, which is presumed from the information we have available for this site to be where monitoring well MW-3 is located, and HB-4, which appears to be MW-4, had elevated levels of PVOCs that exceed the current NR 720 Soil Cleanup Standards. Other soil samples collected from HB-2 and MW-1 had lower detections, but had benzene detections that exceed the current NR 720 criteria. The sampling locations are shown in Figure 2.

Foth & Van Dyke collected ground water samples at the Hedlund site in March 1991. In the MW-1 sample, concentrations of PVOCs were minimal and none exceeded the PAL. However, in the MW-3 sample, the benzene concentration was 1,700 ppb; toluene, 890 ppb; ethylbenzene, 450 ppb; total xylenes, 1,600 ppb; MTBE, 88 ppb; and TPH as gasoline, 27,000 ppb. In the MW-4 sample, concentrations were even higher with benzene of 6,900 ppb; toluene, 12,000 ppb; ethylbenzene 1,600 ppb; total xylenes, 7,800 ppb; and TPH as gasoline, 120,000 ppb. Most of the PVOCs exceed the ES.

1.2.3 Chronology of Remedial Investigation Events

In 1994, Bob's Service Station retained Ayres Associates to conduct a remedial investigation of the site. Following is a chronology of the events to date:

- A remedial investigation work plan was submitted to the WDNR on April 26, 1994, and a notice to proceed was received in letters dated April 28 and June 8, 1994. A copy of the second response letter is in Appendix A.
- Six test pits were installed and soil samples were collected on July 25, 1994.
- Soil analytical results for the test pit samples were received on August 15, 1994. Results indicated that the soil contamination plume was not defined.

- A remedial investigation work plan addendum was submitted to the WDNR on December 13, 1994, and a notice to proceed was received in a letter dated December 15, 1994. A copy of the response letter is in Appendix A.
- Five soil borings were installed and soil samples were collected on October 30, 1995, to better define the extent of soil contamination.
- A temporary well was installed and a ground water sample was collected in boring B/W-1 on October 30, 1995.
- Soil and ground water analytical results from the soil borings were received on November 27, 1995. Results indicated that the soil contamination plume is defined.

2.0 REGIONAL SETTING

2.1 <u>TOPOGRAPHY</u>

The regional topography surrounding the site is shown in Figure 1. The area has a relatively flat and low-lying topography, with the majority of the region being classified as marsh.

2.2 SURFACE WATER AND DRAINAGE

As shown in Figure 1, the site is approximately 400 feet north of the Wood River, which flows generally east to west. The Wood River discharges into Little Wood Lake. The majority of the marshes and intermittent streams appear to discharge into the Wood River. The Wood River is a tributary of the St. Croix River.

2.3 SOILS AND GEOLOGY

According to Water Resources of Wisconsin - St. Croix River Basin, Atlas HA-451, the soils on site are pitted outwash consisting of stratified sands and gravels. Soils encountered on site are a clay until approximately 11 feet deep where a brown, fine to medium sand was encountered. These soils are classified ML and SW according to the Unified Soil Classification System (USCS). Underlying this outwash is undifferentiated sandstone of Cambrian age.

2.4 <u>HYDROGEOLOGY</u>

The site is within the St. Croix River drainage basin of Wisconsin. According to HA-451, ground water quality is generally good, with dissolved solids and mineral content being related to the aquifer rock type.

According to HA-451, regional ground water flow direction is westerly toward the St. Croix River. Ayres Associates measured site ground water elevations on October 30, 1995, to determine ground water flow direction. The ground water elevations indicate that ground water flow direction is northeasterly. This direction is based on the one round of ground water elevation measurements and one of the measurements collected from the temporary well, B/W-1, which was developed.

3.0 SITE INVESTIGATION METHODS

3.1 <u>GENERAL</u>

After seeking commodity bids, Bob's Service Station retained Oachs Brothers Construction, Grantsburg, Wisconsin, to install backhoe test pits on July 25, 1994. The analytical results for the test pit soil samples indicated that additional soil sampling was needed. After seeking commodity bids, Bob's Service Station retained Midwest Engineering Services (MES), Chippewa Falls, Wisconsin, to install soil borings and a temporary well on October 30, 1995.

3.2 TEST PITS

The contractor used a backhoe equipped with a standard bucket to excavate six test pits in the locations shown in Figure 2. During excavation, an Ayres Associates representative was present to direct the locations of the test pits and collect soil samples from the backhoe bucket. Excavated soil was placed back into the hole when sampling was completed.

Test pits could not be excavated exactly where the two 10,000-gallon USTs were located because the hole had not yet been backfilled. However, TP-1A and TP-1B were dug near the edge of the excavation, as shown in Figure 2. TP-2 and TP-3 were dug to provide samples from a location near the former pump island. TP-2 provided samples from a location between the former pump island and former tank bed. TP-4 was dug on the eastern perimeter of the site.

Ayres Associates screened the soil samples collected from the test pits with a photo ionization detector (PID), classified soil samples in regard to soil type, grain size and USCS, and documented any apparent contamination. Soil descriptions and PID screening results are summarized on the soil boring logs in Appendix B.

The samples with highest (most elevated) field PID screening results and the boring terminus samples were submitted to Central Wisconsin Enviro-Lab (CWEL), Schofield, Wisconsin (Wisconsin Laboratory Certification Number 737125510), for analysis of GRO, volatile organic compounds (VOCs), and total lead. Sampling methods are described in Appendix C. A copy of the CWEL analytical reports is in Appendix D, and the results are summarized in Table 1.

3.3 SOIL BORINGS

3.3.1 Installation and Sample Collection

The contractor installed five soil borings to supplement the test pits using a drill rig equipped with $4\frac{1}{4}$ -inch-inside-diameter hollow stem augers. Soil samples were collected from a split spoon sampler in accordance with ASTM-1586 at 2.5-foot intervals. During installation, an

Ayres Associates representative was present to direct the locations of the soil borings and collect soil samples. Soil cuttings were stored on site in a sealed and clearly marked 55-gallon drum and will be properly disposed of.

Ayres Associates screened soil samples collected from the borings with a PID, classified soil samples in regard to soil type, grain size and USCS, and documented any apparent contamination. Soils description and PID screening results are summarized on the soil boring logs in Appendix B.

The samples with the highest (most elevated) field PID screening results and the boring terminus samples were submitted to Mid-State Associates (MSA), Inc., Baraboo, Wisconsin, (Wisconsin Laboratory Certification Number 157066030) for analysis of GRO and VOCs. Sampling methods are discussed in Appendix C. A copy of the MSA analytical reports is in Appendix D, and the results are summarized in Table 1.

3.4 GROUND WATER SAMPLING

Ayres Associates collected one ground water sample from the Bob's Service Station site. This sample was collected from a temporary well installed in soil boring B/W-1.

The water sample was submitted to MSA for analysis of GRO and VOCs. Sampling methods are discussed in Appendix C. A copy of the MSA ground water analytical report is in Appendix E, and the results are summarized in Table 2.

4.0 RESULTS

4.1 SOIL SAMPLING

A total of six test pits and five soil borings have been installed at the site. Organic vapor screening of soil samples collected at each sampling interval resulted in PID responses ranging from no response (NR) to 1,176 instrument units as isobutylene gas. The soil sample screening and analytical results are summarized in Table 1. The estimated horizontal extent of contamination due to the former USTs on this site is shown in Figure 2. The analytical results for the samples collected within this contamination area, sampling locations TP-1A, TP-1B, and TP-2, indicate that only the benzene detections exceed the NR 720 criteria. However, we think that higher levels of soil contamination may be present in the former UST bed area because of the gasoline that spilled when the two USTs tipped. We also believe that the other detections that exceed the NR 720 criteria (sample locations TP-3, B-2, and B-3) are the result of contamination migrating from the Hedlund site.

Soils encountered on site consisted of red-brown fine to medium sands and gray-green clays classified as SW and ML respectively. Appendix B contains the soil boring logs and abandonment forms, which describe in detail the soil characteristics encountered.

4.2 GROUND WATER SAMPLING RESULTS

Analytical results from the ground water sample collected from the temporary well in boring B/W-1 are summarized in Table 2. No GRO or VOCs were detected in this sample.

4.2.1 Ground Water Flow Direction and Elevation

On October 30, 1995, Ayres Associates measured ground water elevations in monitoring wells MW-1 and MW-3 located on the former Hedlund's gas station property, which is directly west of Bob's Service Station, and the temporary well in B/W-1. Monitoring well MW-4 could not be found. Monitoring well construction and development forms for temporary well B/W-1 are in Appendix F. Ayres Associates used the ground water elevations to construct the ground water contours shown in Figure 3, which indicate that ground water flows in an east-northeasterly direction. The depth to ground water was approximately 3 feet below ground surface on October 30, 1995. In 1991, when Foth & Van Dyke collected ground water samples from the Hedlund monitoring wells, the ground water depth was from 1.0 to 1.7 feet lower than what we measured in 1995. In 1991, the difference in water elevation between MW-1 and MW-3 was 0.65 feet compared to a difference of only 0.09 feet in 1991. In 1991 the ground water appears to change flow direction depending on its depth.

5.0 DISCUSSION

Based on the sampling results, there are two plumes of soil petroleum contamination on the Bob's Service Station property. One plume of contamination lies in and around the former UST bed and may have moved as far down gradient as TP-2. This plume is shown in Figure 2. The second plume contains higher concentrations of petroleum contamination and stems from petroleum contamination migrating onto Bob's Service Station property from the former Hedlund property. The second plume is not shown in Figure 2 because we were retained by Mr. Anderson to conduct a remedial investigation due to the petroleum contamination caused when his former USTs tipped and spilled gasoline. The Hedlund property has soil and ground water petroleum contamination as documented in analysis of samples from monitoring wells and soil borings installed in December 1990. The ground water flow direction and the elevated contaminant levels in soil samples from boring B-2 indicate that contamination from the Hedlund property is affecting soil and ground water along the north and northwest sides of Bob's Service Station property. The contamination in TP-3 appears to be coming from the west because no contamination was found under the west side of the pump island when the tank closure site assessment sampling was conducted and because elevated concentrations have been detected in a B-2 sample.

6.0 <u>CONCLUSIONS</u>

Based on qualitative and quantitative analysis of soil and ground water samples collected as part of this remedial investigation and information obtained from previous on-site investigations, we have made the following conclusions:

- Petroleum contaminated ground water exceeding the PAL and diesel contaminated soil was found in 1989 along the south side of STH 70. Mr. Anderson never sold diesel fuel on his property.
- Both petroleum contaminated soil and ground water are present on the Hedlund property to the west of Mr. Anderson's site.

- Two gasoline USTs were removed from the Anderson site in 1993, along with associated product piping and pumps. Minimal petroleum contamination was found under the former east pump and no contamination was found under the former west pump. The contaminated ground water and free product from the spill that occurred when the USTs tipped were removed during an emergency cleanup.
- Soil contamination in excess of NR 720 Soil Cleanup Standards, due to the former on-site USTs and related piping, is present at this site. This is one of two soil contamination plumes on the site.
- The second soil contamination plume is due to petroleum contamination, in excess of NR 720 Soil Cleanup Standards, that has migrated onto the Anderson site from the Hedlund property, which is adjacent to and directly west of the Anderson site.
- Soil contamination in the plume resulting from the gasoline spill from the former USTs has much lower concentrations than are found in the plume migrating from the Hedlund property.
- The two contamination plumes may have commingled.
- No petroleum contamination was found in the test pit installed near the 2,000-gallon waste oil AST.
- No ground water contamination was documented on site during this investigation.
- Ground water flow direction appears to change depending on depth. In 1995, ground water was flowing northeasterly.

7.0 REMEDIAL ALTERNATIVE EVALUATIONS

7.1 <u>GENERAL</u>

This section evaluates the estimated cost and anticipated performance of several remedial alternatives. This evaluation is required by DILHR, per ILHR 47: "the remedial action plan developed for the site shall include a consideration of at least three remedial alternatives, one of which shall be passive bioremediation with long-term monitoring." This rule also requires the implementation of the most cost-effective remediation alternative that meets the requirements of the WDNR.

The ultimate objective of any remediation is to remove the existing source of contamination and reduce the associated contaminant concentrations to acceptable levels throughout the site. The alternatives discussed below address the remediation of soil contamination due to the former UST system on the Bob's Service Station property. The contamination encountered in soil samples from boring B-2 and B-3 and test pit TP-3 is due to petroleum contamination that has migrated from an off-site source. The soils affected by this migrating plume will not be addressed in the following remedial alternatives. Instead, these soils should be addressed when remediation is conducted at the former Hedlund property. The description of the remedial alternatives includes their respective advantages and disadvantages. In accordance with ILHR 47, life cycle cost estimates for construction, operation, and maintenance of each system are provided for each alternative.

Passive bioremediation was evaluated as a possible remedial alternative for this site. As documented in *WDNR Interim Guidance - Natural Biodegradation as a Remedial Action Option*, degradation of most volatile compounds is inhibited whenever the permeability coefficient for the soil is less than 10⁻⁵ cm/sec. Permeability is a measure of the ability of the soil to transmit fluids, such as water or air. This is an important factor for biodegradation because it controls the movement of water, gases, and nutrients through the soil system. According to the WDNR guidelines, permeability of soil should be greater than 10⁻³ cm/sec for optimal biodegradation conditions; values in the 10⁻⁵-10⁻³ cm/sec range may be acceptable if other site characteristics are favorable. Soil sampling results indicate that soil characteristics at this site are primarily clays. Typical permeability coefficients of clay are less than 10⁻⁶ cm/sec.

We also determined that landfilling and soil vapor extraction are not feasible alternatives for the site. Landfilling of excavated contaminated soil is not a feasible remediation alternative because of its long-term liabilities to the client.

Soil vapor extraction (SVE) is also not feasible at this site for the following reasons:

- Soil type--Soil venting has been ineffective in heavy soil types. Heavy clay layers are present at this site as shown in the soil boring logs. (See Appendix B).
- Depth to ground water--Shallow ground water at this site would reduce the effectiveness of SVE remediation.

The following alternatives were evaluated for treatment of the petroleum contaminated soil at the project site:

Alternative 1: Soil excavation asphalt incorporation

Alternative 2: Soil excavation with commercial biopile treatment

Alternative 3: Soil excavation with thermal desorption

Alternative 1: Soil Excavation with Asphalt Incorporation

<u>Description</u>: This alternative involves excavation of contaminated soil from the area where contamination exceeds NR 720 Soil Cleanup Standards in the former UST and pump system locations. Following contaminated soil removal, the excavation would be backfilled with clean fill material to the original grade elevation. Backfill materials would be compacted.

The limits of the proposed soil excavation are shown as the plume of soil contamination in Figure 2. Contaminated soils would be excavated to a depth of approximately 8 feet. A pumper truck would be on site during excavation activities to remove any ground water that

enters into the work area. This water would be hauled to an approved wastewater treatment facility and properly disposed of. No sheet piling or other slope stabilization measures are proposed. Approximately 620 cubic yards of soil would be excavated. The contaminated soils, estimated to be 260 cubic yards, would be hauled from the site to an approved asphalt incorporation plant.

During excavation of contaminated soils, soil screening and sampling would be completed in accordance with WDNR Publication SW-157-92, *Guidance for Conducting Environmental Response Actions.* In accordance with the WDNR requirements, the following schedule for sample field screening with a PID or flame ionization detector (FID) and laboratory analysis for GRO and VOCs would be followed:

- Collection of one soil sample for laboratory analysis from every 25-foot grid interval of sidewall from the zones that showed the highest levels during field screening
- Collection of one soil sample for laboratory analysis per 25-foot grid interval from the base of the excavation
- Screening of one soil sample per 15 cubic yards of excavated soil
- Collection of one soil sample for laboratory analysis from each 300 cubic yards or less of excavated soil when the screening indicates contamination, or collection of one soil sample for laboratory analysis for each 100 cubic yards or less of soil when the screening does not indicate contamination but the soil was shown to be contaminated during the site investigation

<u>Advantages and Disadvantages</u>: The benefits of this alternative are that it provides immediate removal of contaminated soils as compared to an active remediation system, such as vapor extraction, and removal of the soil contamination eliminates additional contamination from potentially affecting the ground water. The disadvantage of this alternative is the surface disturbance to the site.

<u>Opinion of Cost</u>: The total opinion of probable costs associated with Alternative 1 are summarized in Table 3. More detailed estimates are in Appendix G. All costs presented in this report are at 1995 rates and do not account for inflation. The total opinion of probable cost for excavation of approximately 620 cubic yards of soil, asphalt incorporation of approximately 260 cubic yards of contaminated soil (at a treatment cost of \$40/ton), clean backfill and compaction, and site closure is estimated to be \$53,300.

Alternative 2: Soil Excavation with Biopile Treatment

<u>Description</u>: This alternative is similar to Alternative 1, except that the contaminated soils would be hauled to a biopile site, such as Timberline Trail BioSite near Bruce, Wisconsin, for disposal in a biopile system. Biopiles use natural biodegradation as a remedial action. Many indigenous microbes in soil are capable of transforming both naturally occurring and artificial hydrocarbon compounds through direct metabolism. The term "biodegradation" refers to complete mineralization of the organic contaminants to carbon dioxide, water,

inorganic compounds, and cell protein. Excavation and soil sampling would be the same as described in Alternative 1.

<u>Advantages and Disadvantages</u>: This alternative has the same advantages and disadvantage as those described for Alternative 1.

<u>Opinion of Cost</u>: The total opinion of probable costs associated with Alternative 2 are summarized in Table 3. More detailed estimates are included in Appendix G. All costs presented in this report are at 1995 rates and do not account for inflation. The total opinion of probable cost for excavation of approximately 620 cubic yards of soil, biopile disposal of approximately 260 cubic yards of contaminated soil (at a treatment cost of \$27/ton), clean backfill and compaction, and site closure is estimated to be \$49,100.

Alternative 3: Soil Excavation with Thermal Desorption

<u>Description</u>: This alternative is similar to Alternative 1, except contaminated soils would be hauled to an off-site thermal desorption plant. This treatment technology involves heating the contaminated soil to a point where the volatiles are driven-off into the off-gas stream along with the moisture. The treated soil is then rehydrated for cooling, fugitive dust control, and soil workability. Excavation and soil sampling would be the same as described in Alternative 1.

<u>Advantages and Disadvantages</u>: This alternative has the same advantages and disadvantages as those described for Alternative 1.

<u>Opinion of Cost</u>: The total opinion of probable costs associated with Alternative 3 are summarized in Table 3. More detailed estimates are in Appendix G. All costs presented in this report are at 1995 rates and do not account for inflation. The total opinion of probable cost for excavating approximately 620 cubic yards of soil, off-site thermal desorption of approximately 260 cubic yards of contaminated soil (at a treatment cost of \$45/ton), and site closure is estimated to be \$56,700.

8.0 <u>RECOMMENDATIONS</u>

Based on the results of this investigation and the analysis of costs for cleanup options, excavation of the contaminated soil near the two former USTs is the only feasible alternative for remediation of this site. Whether the excavated soil is transported to an asphalt plant, transported to a thermal desorption plant, or disposed of in a biopile, the estimated cost of hauling and disposal fees are nearly the same.

The provisions of Wisconsin Administrative Code ILHR 47, "Petroleum Environmental Cleanup Fund Act," provide for reimbursement of eligible costs associated with the most economical treatment alternative. In this case, that alternative is excavation and biopile treatment of contaminated soil at Timberline Trail BioSite (Alternative 2). However, we recommend that bids be taken from contractors for the asphalt incorporation, biopile treatment, or thermal desorption options. Consideration should then be given to the least costly bid received.

We recommend that the excavation be conducted on or after such time that the remediation is conducted for the petroleum contamination on the Hedlund property. This would include both the contamination on the Hedlund property as well as the petroleum contamination that has spread onto Mr. Anderson's property. If Mr. Anderson remediates the contamination caused by his USTs before the other contamination is remediated, the contamination caused by the Hedlund's site could potentially spread into the clean backfill on Mr. Anderson's property and contaminate it.

9.0 STANDARD OF CARE

This remedial investigation report is based on data obtained by Ayres Associates and other contractors associated with the client through the collection and analysis of soil and ground water samples. Water level measurements and soil and ground water qualities reported apply only to the specific locations and times at which this work was performed. Variations in sample results may occur if samples were collected at other locations between the soil borings and monitoring wells. Design data, computations, and correspondence supporting the information presented in this report are on file at Ayres Associates.

Conclusions and recommendations made represent our professional engineering judgment in interpreting these data, including data obtained from reports prepared by others relative to soil and ground water conditions in the study area.

10.0 NR 712.09 SUBMITTAL CERTIFICATION

"I, Lori A. Rosemore, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, 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 chs. NR 700 to 726, Wis. Adm. Code."

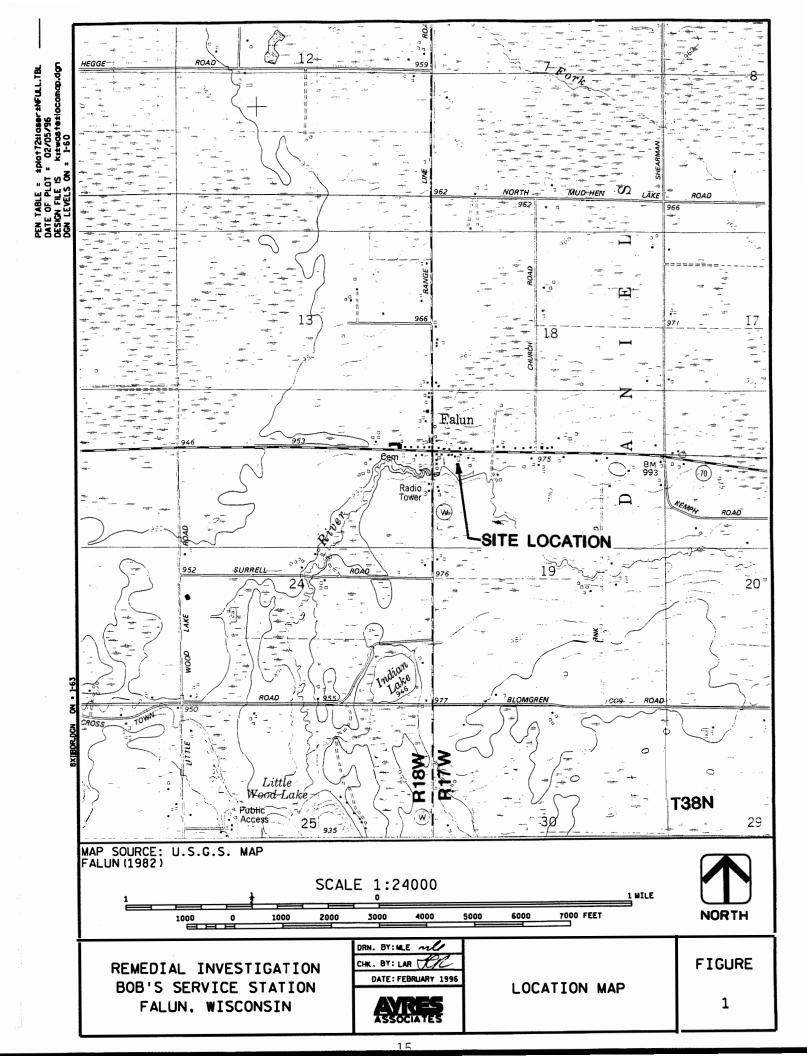
5-10-96

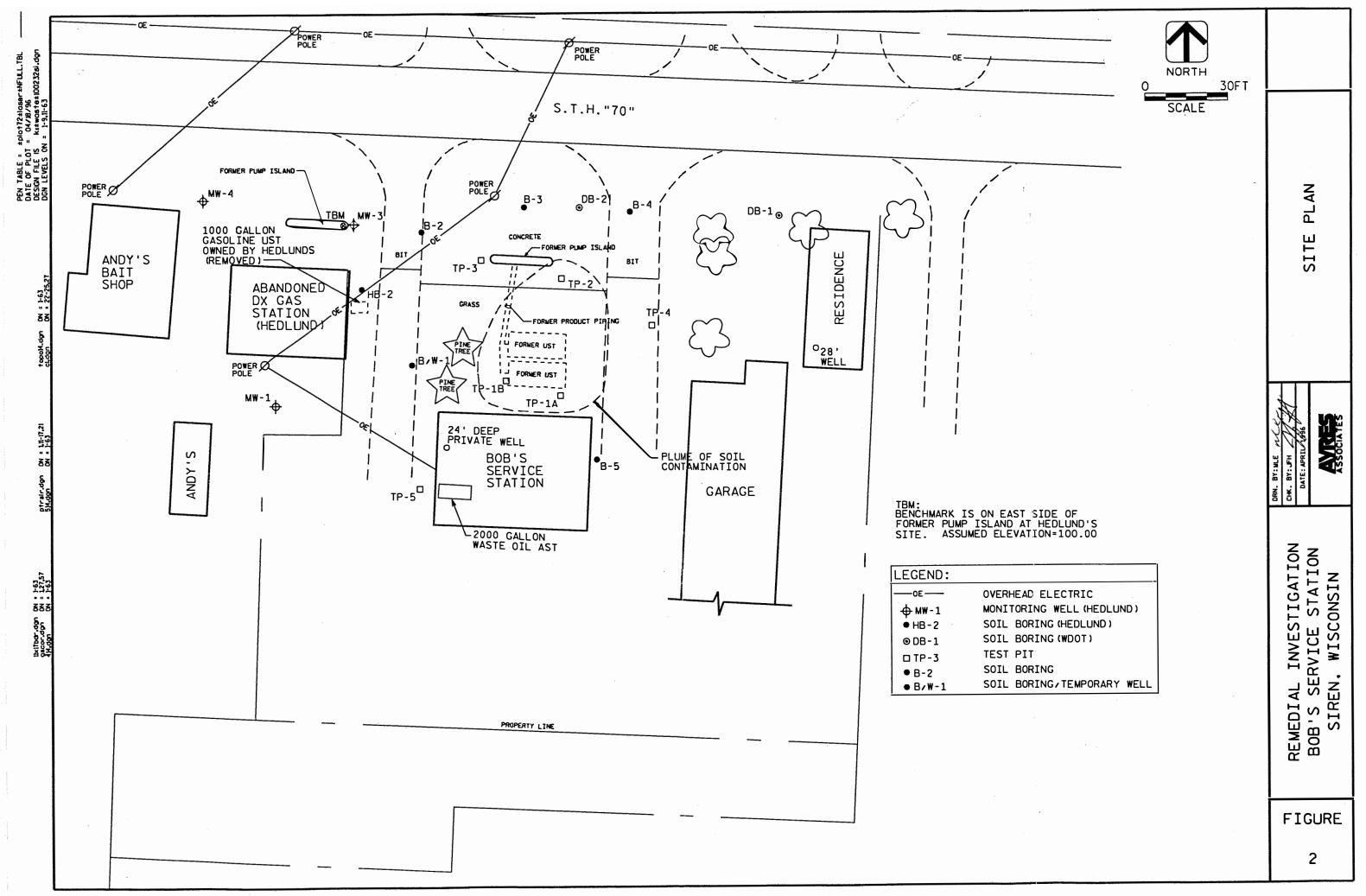
"I, Jan M. Smit, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-#8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

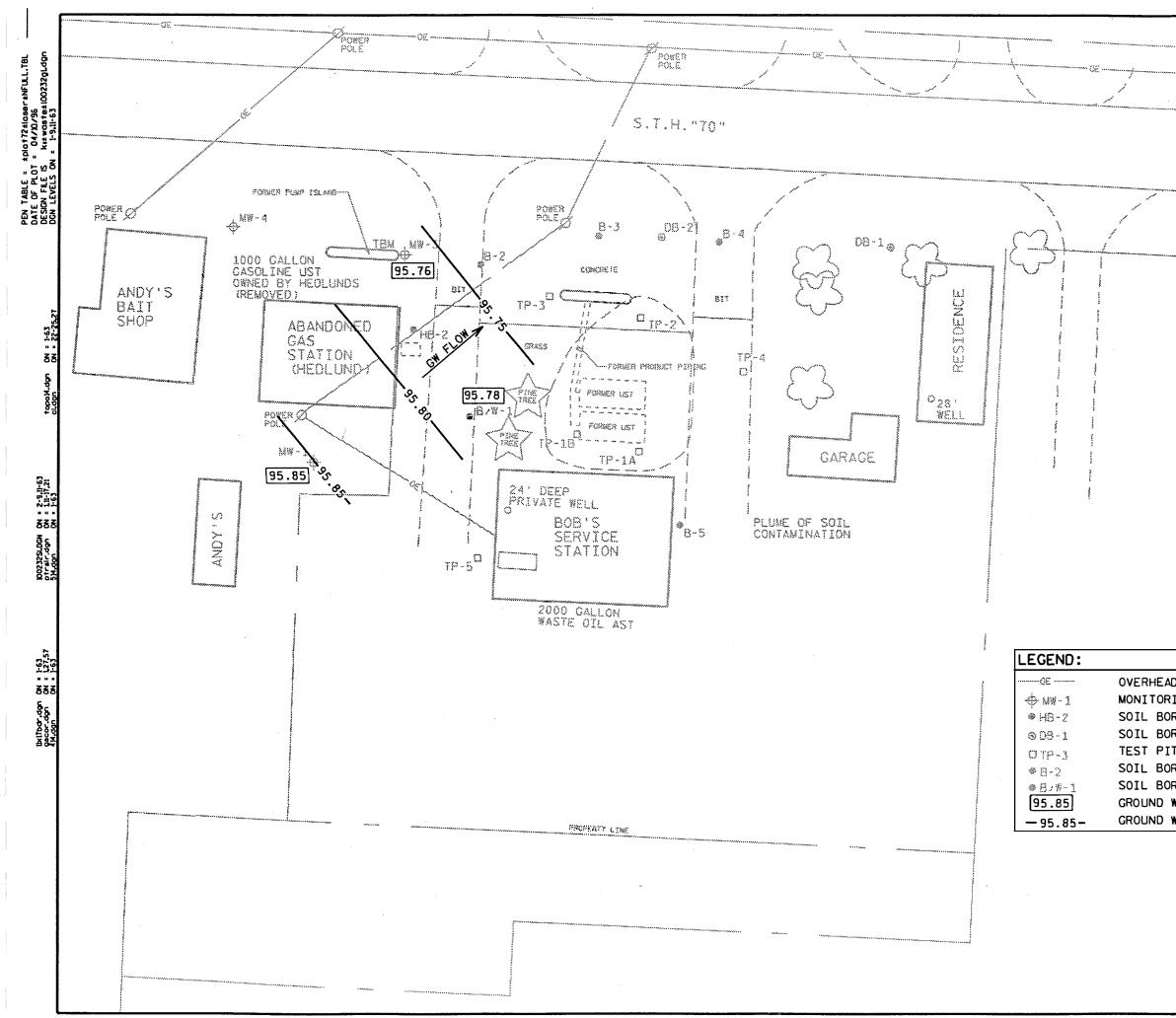
Jan M. Smit

5/6/96









17

NORTH 0 30FT	
SCALE	GROUND WATER CONTOURS OCTOBER 30. 1995
	DRN. BY: W.E. W.Y. CMX. BY: JFH W.Y. DATE: APPLIL. 1996 ASSOCIATES
D ELECTRIC ING WELL (HEDLUND) RING (HEDLUND) RING (WDOT) T RING RING/TEMPORARY WELL WATER ELEVATION WATER CONTOUR	REMEDIAL INVESTIGATION BOB'S SERVICE STATION SIREN, WISCONSIN
	FIGURE
	3

	Sample	Sample	PID				Ethyl-	Total	1,2-	Naph-	n-Butyl-	sec-Butyl-	Dichloro-	Isopropyl-	p-Isopropyl-	n-Propyl-	1,2,4-	1,3,5-	
Date	Location	Depth	Response	GRO	Benzene	Toluene	benzene	Xylenes	DCA	thalene	benzene	benzene	methane	benzene	toluene	benzene	TMB	TMB	Lead
		(ft)	(i.u.)	(mg/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
7/25/94	TP-1a	2.5 - 4.5	NR	·	-							-				-	-	·	
		5.0 - 7.0	113.5	23.6	< 6.0	< 6.0	< 6.0	<13.4	< 6.0	< 12.0	193	70.4	< 6.0	6.9	133	28	79.7	282	3.49
		7.5 - 9.5	15.6		-														
		10.0 - 12.0	NR	< 5.8	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	3.22
7/25/94		2.5 - 4.5	6.2										<u>г</u>						
1125/94	TP-1b	2.5 - 4.5	0.2		 13.8	 45.5	22.5	293	< 6.6	55	< 6.6	 < 5.6	 < 6.6	 < 6.6	 < 6.6	 10.8	 156	 38.7	
		5.0 - 7.0 7.5 - 9.5	31.4		en nevelelysio dae takoo haar				< 0.0						< 0.0 				5.90
				 <6.9	 < 2.7		< 2.7	 < 5.4	< 2.7	 < 5.4	 < 2.7	 < 2.7	- < 2.7	 < 2.7	< 2.7	< 2.7	-	 < 2.7	
	1	10.0 - 12.0		<0.9	< 2.1	< 2.7	× 2.1	< 0.4	< 2.1	< 5.4	< 2.1	< 2.1	< 2.1	< 2.7	< 2.7	< 2.1	< 5.4	< 2.1	14.6
7/25/94	TP-2	2.5 - 4.5	NR					-	 `										
		5.0 - 7.0	NR	< 6.4	6.5	< 2.3	< 2.3	< 5.1	< 2.3	< 4.6	< 2.3	< 2.3	< 2.3	< 2.3	< 2.3	< 2.3	< 4.6	< 2.3	13.80
		7.5 - 9.5	NR																-
		10.0 - 12.0	NR	< 6.8	< 2.6	< 2.6	< 2.6	< 5.3	< 2.6	< 5.3	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 5.3	< 2.6	16.10
7/05/04	TDO	05 45																	
7/25/94	TP-3	2.5 - 4.5	NR 12.1												-				-
		5.0 - 7.0	13.1						< 6.5										-
		7.5 - 9.5	44.6	52.8	58.5	< 6.5	147	< 13.0		14.7	213	86.8	< 6.5	130	< 6.5	306	< 13.0	8.3	12.9
		10.0 - 12.0	1.5	< 7.1	<2.8	< 2.8	< 2.8	< 5.6	< 2.8	< 5.6	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 5.6	< 2.8	14.8
7/25/94	TP-4	2.5 - 4.5	NR		-										-				
.		5.0 - 7.0	NR	< 7.4	< 2.8	< 2.8	< 2.8	< 5.6	< 2.8	< 5.7	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 5.7	< 2.8	15.6
		7.5 - 9.5	NR												-				
		10.0 - 12.0	NR	< 7.6	< 2.8	< 2.8	< 2.8	< 5.6	< 2.8	< 5.6	< 2.8	< 2.8	3.3	< 2.8	< 2.8	< 2.8	< 5.6	< 2.8	15
7/05/04		0.5 4.5					400				100								
7/25/94	TP-5	2.5 - 4.5	NR	< 5.8	< 2.2	< 2.2	< 2.2	< 4.4	< 2.2	< 4.4	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 4.4	< 2.2	4.45
		5.0 - 7.0	NR			-	-						-						-
		7.5 - 9.5	NR													-			
	l	10.0 - 12.0	NR	< 6.9	< 2.7	< 2.7	< 2.7	< 5.4	< 2.7	< 5.4	< 2.7	< 2.7	< 2.7	< 2.7	<2.7	< 2.7	< 5.4	< 2.7	13.4
NR 7	20 Soil C	eanup Sta	ndards	100	5.5	1,500	2,900	4,100	4.9	XX	XX	XX	XX	xx	XX	xx	xx	xx	xx

TABLE 1 SOIL ANALYTICAL RESULTS BOB'S SERVICE STATION - FALUN, WISCONSIN

= Exceeds Wisconsin Administrative Code NR 720 Soil Cleanup Standards

(mg/kg) = milligrams per kilogram, equivalent to parts per million (ppm)

(ug/kg) = micrograms per kilogram, equivalent to parts per billion (ppb)

-- = Not analyzed NR = No reading TMB = Trimethylbenzene xx = No NR 720 Standard

(i.u.) = instrument units

< = Not detected above method detection limit

Only detected VOCs are listed in this table

TABLE 1 (Cont.) SOIL ANALYTICAL RESULTS BOB'S SERVICE STATION - FALUN, WISCONSIN

Date	Sample Location	•	PID Response (i.u.)	GRO (mg/kg)	Benzene (ug/kg)	Toluene (ug/Kg)	Ethyl- benzene (ug/Kg)	Total Xylenes (ug/Kg)	1,2- DCA (ug/Kg)	Naph- thalene (ug/Kg)	n-Butyl- benzene (ug/Kg)	sec-Butyl- benzene (ug/Kg)	Dichloro- methane (ug/Kg)	Isopropyl- benzene (ug/ Kg)	p-lsopropyl- toluene (ug/Kg)	n-Propyl- benzene (ug/Kg)	1,2,4- TMB (ug/Kg)	1,3,5- TMB	Lead
10/30/95	B/W-1	2.5 - 4.5	(I.u.)	(ing/kg)	(ug/kg)	(ug/i\g) 	(ug/itg) 	(ug/ixg) 	(ug/itg)	(ug/itg) 	(ug/itg) 	(ug/ i\g) 	(ug/i\g)	(ug/ kg)		(ug/itg) 	(ug/kg)	(ug/kg)	(mg/Kg)
		5.0 - 7.0	0.3												-				
		7.5 - 9.5	0.3	< 1.0	< 25	< 25	< 25	< 50	< 25	< 25	< 25	< 25	< 25	< 25	<25	< 25	< 25	< 25	
		10.0 - 12.0	0.3									-							i - 1
		12.5 - 14.5	0.3	< 1.0	< 25	< 25	< 25	< 50	< 25	< 25	< 25	< 25	< 25	< 25	<25	< 25	< 25	< 25	
10/30/95	5 B-2	2.5 - 4.5	525	1,400	17,000	25,000	14,000	72,000	< 1200	2,000	10,000	< 1200	< 2500	< 1200	<1290	3,600	36,000	8,600	- 1
		5.0 - 7.0	518		-														
		7.5 - 9.5	50																i 1
		10.0 - 12.0	50																
		12.5 - 14.5	40							-									
		15.0 - 17.0	30	1.9	< 25	< 25	< 25	< 50	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	
10/30/95	5 B-3	2.5 - 4.5	NR																-
		5.0 - 7.0	1.0																
		7.5 - 9.5	NR														1		- 1
		10.0 - 12.0	16	2.8	50	34	47	237	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	92	< 25	
		12.5 - 14.5	14	1.6	< 25	< 25	29	180	< 25	< 25	40	< 25	< 25	< 25	< 25	< 25	180	< 25	
10/30/95	B-4	2.5 - 4.5	NR	-											- 1				-]
		5.0 - 7.0	NR					-	-						1				Í
		7.5 - 9.5	NR	-					-										
		10.0 - 12.0	NR	< 1.0	< 25	< 25	< 25	< 50	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	
		12.5 - 14.5	NR	< 1.0	< 25	< 25	< 25	< 50	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	-
10/30/95	6 B-5	2.5 - 4.5	NR			- 1	-	-							-				
		5.0 - 7.0	NR													-			
		7.5 - 9.5	NR				-												
		10.0 - 12.0	NR	< 1.0	< 25	< 25	< 25	< 50	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	
		12.5 - 14.5	NR	< 1.0	< 25	< 25	< 25	< 50	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	
NR 7	720 Soil C	leanup Stai	ndards	100	5.5	1,500	2,900	4,100	4.9	XX	xx	xx	xx	xx	XX	xx	xx	xx	xx

= Exceeds Wisconsin Administrative Code NR 720 Soil Cleanup Standards

•

(mg/kg) = milligrams per kilogram, equivalent to parts per million (ppm)

(ug/kg) = micrograms per kilogram, equivalent to parts per billion (ppb) (i.u.) = instrument units -- = Not analyzed NR = No reading TMB = Trimethylbenzene xx = No NR 720 Standard

< = Not detected above method detection limit Only detected VOCs are listed in this table

J:\jfh\960405z1.xls

TABLE 2 GROUND WATER ANALYTICAL RESULTS BOB'S SERVICE STATION - FALUN, WISCONSIN

Date	Sample Location	GRO (ug/L)	Benzene ·(ug/L)	Toluene (ug/L)	Ethyl- benzene (ug <i>I</i> L)	Total Xylenes (ug/L)	1,2- DCA (ug/L)	Naph- thalene (ug/L)			Dichloro- methane (ug/L)		p-lsopropyl- toluene (ug/L)	n-Propyl- benzene (ug/L)	1, 2, 4- TMB (ug/L)	1,3,5- TMB (ug/L)	Dissolved Lead (ug <i>I</i> L)
10/30/95	B/W-1	< 50	< 0.2	< 0.2	< 0.2	< 0.6	< 0.2	< 0.2	< 0.2	< 0.2	< 1.1	< 0.2	<0.2	< 0.2	< 0.3	< 0.2	
NR 140 E	nforcement Standards	xx	5	343	700	620	5	40	xx	xx	5	xx	xx	xx	xx	xx	15
NR 140 P	reventive Action Limits	xx	0.5	68.6	140	124	0.5	8	xx	xx	0.5	xx	xx	xx	xx	xx	1.5

20

-- = Not analyzed

(ug/L) = micrograms per liter, equivalent to parts per billion (ppb)

.

< = Not detected above method detection limit

TMB = Trimethylbenzene xx = No NR 140 standard

TABLE 3 REMEDIAL ALTERNATIVE OPINION OF PROBABLE COSTS BOB'S SERVICE STATION - FALUN, WISCONSIN

.

	ALTERNATIVE 1 SOIL EXCAVATION WITH ASPHALT INCORPORATION	ALTERNATIVE 2 SOIL EXCAVATION WITH COMMERCIAL BIOPILE TREATMENT	ALTERNATIVE 3 SOIL EXCAVATION WITH THERMAL DESORPTION
ENGINEERING	\$ 15,300.	\$ 15,300.	\$ 15,300.
CONSTRUCTION	\$ 33,200.	\$ 29,000.	\$ 36,600.
LABORATORY	\$ 3,300.	\$ 3,300.	\$ 3,300.
SITE CLOSURE	\$ 1,500.	\$ 1,500.	\$ 1,500.
TOTAL	. \$ 53,300.	\$ 49,100.	\$ 56,700.

APPENDIX A

CORRESPONDENCE



State of Wisconsin \

DEPARTMENT OF NATURAL RESOURCES

Northwest District Headquarters Box 309 Spooner, WI 54801

Cerrall D. Besedry, Secretary TELEFAX NO. 715-635-4105

April 2, 1990

File Ref: 4440

Mr. Carl A. Hedlund Hedlund Oil Company Route 1, Box H6 Grantsburg, WI 54840

Mr. Robert P. Anderson 10531 STH 70 Siren,WI 54872

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Dear Sirs:

RE: Hedlund DX Service Station and Bob's Service Station, Falun, WI (NW NW Sec. 19 T38N-R17W)

On February 9, 1990, Aqua-Tech, Inc. submitted to the Department of Natural Resources (DNR) a preliminary environmental site assessment report that their firm conducted for the Department of Transportation (DOT) at the former DX service station located in Falun, WI. The report determined that groundwater and soil contamination from petroleum product exists at this site. It is possible that the contamination has migrated off-site and is a possible source of petroleum product contamination confirmed to be in the water supply belonging to Mr. Otmer Anderson of Andy's Bait Shop, west of the site.

A site history included in this report states that the DX service station had two underground storage tanks removed in 1980; there was observed leakage at the time of removal.

A site assessment report by Aqua-Tech, Inc. was also conducted at Bob's Service Station, located adjacent to the DX service station site. This report states that similar soil and water contamination exists at this property as well, owned by Robert P. Anderson.

Under s. 144.76(3), Wisconsin Statutes, any person who possesses or controls a hazardous substance which is discharged, or who causes the discharge of a hazardous substance, must take the actions necessary to restore the environment and minimize the harmful effects from the discharge to the air, lands or waters of the State.

ĽU4

RE: Hedlund DX Service Station & Bob's Service Station - April 2, 1990

Based on information available to the Department, the Department believes you have such a responsibility.

The Department is, therefore, requesting that within 10 days of receipt of this letter you contact the person identified below and indicate whether you intend to conduct the following activities:

- 1. Immediately supply an adequate, safe water supply to the Otmer Anderson residence and business.
- 2. Retain a qualified environmental consultant acceptable to the department to conduct the necessary investigation and/or remediation.
- 3. Define degree and extent of soil and groundwater contamination.
- 4. Recommend remedial options and feasibility.
- 5. Implement any necessary remedial activities.

If the hazardous substance was, or may have been, released from an underground storage tank regulated under Subtitle I or the Resource Conservation and Recovery Act, you are also required to comply with the provisions of that law and 40 CFR Parts 280 and 281. You may be able to fulfill your responsibilities under the federal law by working with the Department to investigate and/or remediate the suspected release.

The Department ranks every reported contamination incident based on what is known about the site. If you fail to respond within the time period identified above, or if you fail to take the appropriate action, the Department has the authority under s. 144.76(7), Wis. Stats., to take the necessary action and to seek reimbursement for all its actual and necessary expenditures from the responsible parties. If the Department utilizes federal funds to undertake the necessary actions, the U.S. Environmental Protection Agency also has the right to seek reimbursement for all Department expenditures from the responsible party(ies).

Finally, you may be eligible to be reimbursed for your investigation and/or remediation costs from Wisconsin's Petroleum Storage Remedial Action Fund. This fund is administered by the Wisconsin Department of Industry, Labor and Human Relations (DILHR). Please contact DILHR for further information or an application package.

Sincerely,

Jon ferrichi

Tom Kendzierski Hydrogeologist

Attach. cc: DILHR SW/3 (ERR - Tank Unit) Dale Marg, WDOT - District 8, P.O. Box 429, Superior, WI 54880

0390\HW8N0318.KKM

2.

10-20-93 09:51 AM FROM DNR CUMBERLAND, WI



" - CEIVEN

OCT 20 1993

Cumberland Area Headquarters

July 8, 1993

831-8100

To: Joe Gause

P.O. Box 397 1341 2nd Ave. Cumberland, Wisconsin 54829 TELEPHONE 715-822-3590 TELEFAX 715-822-3592

P01

Mr. Bob Anderson Bob's Garage Highway 70 Siren, WI 54872

CERTIFIED MAIL RETURN RECEIPT REOU

Dear Mr. Anderson:

RE: Spill at Bob's Garage, NWNW, Section 19 T38N, R17W, Burnett County, Wisconsin

The Department of Natural Resources has responsibility under Wisconsin law to regulate and enforce laws relating to hazardous substance spills or discharges. We also have responsibility for regulation and enforcement of other laws protecting public health, safety and environmental quality.

Unfortunately, hazardous substance discharges do occur. The purpose of this letter is to make sure persons who may be responsible for such discharges know their responsibilities under the law and act accordingly. If you are already involved in a clean-up, this letter is intended as clarification and information.

Based on information available to the Department, we believe you have such a responsibility. This office was notified of a spill that occurred at the above-mentioned site on July 4, 1993 when 200 gallons of gasoline were spilled due to the tanks floating and then overturning.

Under s. 144.76(3), Wisconsin Statutes, any person who possesses or controls a hazardous substance which is discharged, or who causes the discharge of a hazardous substance, must take the actions necessary to restore the environment and minimize the harmful effects from the discharge to the air, lands or waters of the State.



10-20-93 09:51 AM FROM DNR CUMBERLAND, WI

10. 11.

The Department is, therefore, requesting that within 30 days of receipt of this letter you contact the person identified below in writing and indicate whether you intend to conduct the following activities*:

- 1. Immediately determine whether or not the discharge poses an imminent fire, exposure or safety threat to persons, structures, sewers, surface waters, groundwater or the community AND take appropriate emergency action. In the event of an emergency situation, contact your local fire department and other emergency officials. You do not need DNR approval to take appropriate action to minimize the harmful effects of a spill.
- 2. Show proof within 60 days that you have retained a qualified environmental consultant, acceptable to the Department, to conduct the necessary investigation and/or remediation. However, for sites that are eligible for PECFA reimbursement, consultants must be hired based on a comparison of three proposals and the consulting firm must provide only consulting services. Consultants and consulting firms must be registered with the Department of Industry, Labor and Human Relations (DILHR). If you have specific questions about PECFA or for a list of registered consultants, please contact DILHR at 608/266-2424.
- 3. Determine and document the degree and extent of soil and groundwater contamination.
- 4. Recommend remedial options and feasibility.
- 5. Implement any necessary remedial activities.
- 6. Propose and adhere to a schedule for regular progress reports and completion of the above tasks.

The Department wishes to remind you that time is of the essence in responding to environmental contamination incidents. Generally, the more quickly a release is discovered and responded to, the smaller the damaging impacts and the cost of investigation and/or remediation. Attached to this letter is guidance developed by the Department to aid persons in investigation and/or remediating hazardous substance releases.

Although such investigations may be expensive, the State does provide assistance in some cases. You may be eligible to be reimbursed for your investigation and/or remediation costs from Wisconsin's Petroleum Storage Remedial Action Fund. This fund is administered by the Wisconsin Department of Industry, Labor and Human Relations (DILHR). Please contact them in Madison at 608/267-3753 for further information or an application package.

We prefer to work cooperatively with people to resolve problems. However, if you fail to respond within the time period identified above, or if you fail to take the appropriate action, the Department has the authority under s. 144.76(7), Wis. Stats., to take the necessary action and to seek reimbursement for all its actual and necessary expenditures from the responsible parties.

P02

^{*}If you have already engaged in clean-up activities, please provide the Department with a status report.

If there is anything you don't understand about this letter or have any concerns at all, please write or call me at 715/822-3590.

Sincerely,

. . 1

a. Horeh

James A. Hosch Hydrogeologist

JAH:dk

Enclosures

cc: Darrell Christy, Tank Inspector, DILHR, 13 E. Spruce St., 54729 Tom Kendzierski - DNR Spooner

Chippewa Falls, WI



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Cumberland Area Headquarters June 8, 1994

NECEIVED JUN OG 1994 AVRES ASSOCIATES

P.O. Box 397 1341 2nd Ave. Cumberland, WI 54829 Telephone 715-822-3590 Telefax 715-822-3592 NWD ID NO.: 148

Robert Anderson Bob's Service Station 10531 State Rd. 70 Siren, WI 54872

RE: Bob's Service Station - Falun, Rt 1, Hwy 70, Daniels, Burnett, Wisconsin

Dear Mr. Anderson:

This Notice to Proceed was originally sent on April 28, 1994, and returned to our office indicating that the forwarding authorization had expired. The address that was shown on the letter was Rt 1. Box 719.

The Department has received the report entitled Remedial Investigation Work Plan prepared by Ayres Associates, dated April 26, 1994. Currently, workload and staffing levels do not allow us to provide you with direct oversight at this time.

This letter serves as your "Notice to Proceed" with investigation and remediation of the site. All actions must comply with all applicable statutes, program guidance, standards and Administrative Rules. This letter is not an approval of your work plans and/or reports. They will be filed as public records until the Department is able to review them, or until site remediation is completed.

In order to assist you and your consultant in understanding what is required by the Department, I have attached a Remedial Investigation Checklist for your reference. This checklist was prepared by the Department as a summary of what needs to be done, the rules that need to be followed, and the standards which need to be met for complete assessment of a LUST site.

Your consultant should follow the Department's "Guidance for Conducting Environmental Response Actions" (PUBL SW-1577-92). All samples should be analyzed according to the parameters in the "Leaking Underground Storage Tank (LUST) and Petroleum, Analytical and Quality Assurance Guidance" (PUBL-SW-130-93). It is very important that your consultant understand and meet the standards established by the Department; however, you, as the responsible party, are ultimately responsible for the investigation and remediation that is required at your site, according to Wisconsin Statute 144.76. Failure to follow guidance may result in delays when the site is reviewed for closure or reimbursement from PECFA.

Any well construction variances or WPDES permits, if applicable, should be obtained <u>prior</u> to construction, disposal or discharge. PECFA payment requests, along with necessary reports or closure documents, can still be submitted for review upon completion of milestones as detailed in ILHR 47 or as provided by s. ILHR 47.35(2)(b). Form 4's received by this office will be processed in order of the date that they were received.

Effective the date of this letter, every 90 days, you or your consultant should provide the Department with a brief status report of one or two pages, providing an update on site activities and your proposed schedule. The Department should be notified <u>immediately</u> of any emergency actions and follow them up with a report. As workload and staff levels are adjusted, the status of this case may be changed and we may be able to review your consultant's work for completeness and acceptability. You will be informed, in writing, if the site status is changed.

If you are interested in obtaining the protection of limited liability under s. 144.765, Stats., please contact Mark Giesfeldt at (608) 267-7562 or Darsi Foss at (608) 267-6713, in the Department of Natural Resources' Madison office for more information. The liability exemption under s. 144.765, Stats., is available to persons who meet the definition of "purchaser" is s. 144.765 (1)(c) and receive Department approval for the response actions taken at the property undergoing cleanup. The Department will determine eligibility for this program on a case-by-case basis, prior to the "purchaser" developing a scope of work for conducting a ch. NR 716 site investigation at the property.

The Department will review your case when the full extent of contamination has been determined and appropriate clean-up has occurred.

If you should have any questions, please feel free to contact our office at 715/822-3590.

Sincerely,

James Hoseh / Lec

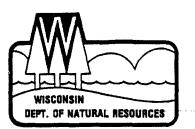
James A. Hosch Hydrogeologist

JAH:dc

Attachment: Remedial Investigation Checklist

cc: Susan J. Vasey, Ayres Associates, PO Box 1590, Eau Claire, WI 54702-1590 Tom Kendzierski - DNR Spooner

GREETED



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

LINES ASSOCIATES

Cumberland Area Headquarters

December 15, 1994

Mr. Robert Anderson Bob's Service Station 10531 State Road 70 Siren, WI 54872 P.O. Box 397 1341 2nd Ave. Cumberland, WI 54829 Telephone 715-822-3590 Telefax 715-822-3592 NWD ID No.: '148

RE: Bob's Service Station - Falun, Rt. 1, Hwy 70, Daniels, Burnett, Wisconsin

Dear Mr. Anderson:

The Department has received the report titled "Work Plan Addendum" prepared by Owen Ayres & Associates, Inc., dated December 13, 1994. Currently, workload and staffing levels do not allow us to provide you with direct oversight at this time.

This letter serves as your "Notice to Proceed" with investigation and remediation of the site. All actions must comply with all applicable statutes, program guidance, standards and Administrative Rules. This letter is not an approval of your work plans and/or reports. They will be filed as public records until the Department is able to review them, or until site remediation is completed.

In order to assist you and your consultant in understanding what is required by the Department, I have attached a Remedial Investigation Checklist for your reference. This checklist was prepared by the Department as a summary of what needs to be done, the rules that need to be followed, and the standards which need to be met for complete assessment of a Leaking Underground Storage Tank (LUST) site. Wisconsin Administrative Codes NR 700 through NR 728 establish requirements for interim actions, public information, site investigations, design and operation of remedial action systems, and case closure. Wisconsin Administrative Code NR 140 establishes groundwater standards. Any samples, soil and/or groundwater, should be analyzed according to the parameters in the LUST Analytical Guidance publication. It is very important that your consultant understand and meet the standards established by the Department; however, you, as the responsible party, are ultimately responsible for the investigation and remediation that is required at your site, according to section 144.76, Wisconsin Statutes. Failure to follow guidance may result in delays when the site is reviewed for closure or reimbursement from PECFA.

The Department will continue to review soil disposal applications as they are submitted. Any well construction variances or WPDES permits, if applicable, should be obtained <u>prior</u> to construction, disposal or discharge. PECFA progress payment requests, along with necessary reports or closure documents, can still be submitted for review.

Mr. Anderson

December 15, 1994

Page Two

Effective the date of this letter, every 90 days, you or your consultant should provide the Department with a brief status report of one or two pages, providing an update on site activities and your proposed schedule. The Department should be notified <u>immediately</u> of any emergency actions and follow them up with a report. As workload and staff levels are adjusted, the status of this case may be changed and we may be able to review your consultant's work for completeness and acceptability. You will be informed, in writing, if the site status is changed.

If you are interested in obtaining the protection of limited liability under s. 144.765, Stats., please contact Mark Giesfeldt at (608) 267-7562 or Darsi Foss at (608) 267-6713, in the Department of Natural Resources' Madison office for more information. The liability exemption under s. 144.765, Stats., is available to persons who meet the definition of "purchaser" is s. 144.765 (1)(c) and receive Department approval for the response actions taken at the property undergoing cleanup. The Department will determine eligibility for this program on a case-by-case basis, prior to the "purchaser" developing a scope of work for conducting a ch. NR 716 site investigation at the property.

The Department will review your case when the full extent of contamination has been determined and appropriate clean-up has occurred.

If you should have any questions, please feel free to contact our office at 715/822-3590.

Sincerely,

G. Amh

James A. Hosch Hydrogeologist

JAH:lml

cc: Joseph Hoeme - Owen Ayres & Associates, Inc., P.O. Box 1590, Eau Claire, WI 54702 Tom Kendzierski - DNR Spooner

APPENDIX B

SOIL BORING LOGS AND ABANDONMENT FORMS State of Wisconsin Department of Natural Resources

Facility/Project Name

Route to: _____Solid Waste

Emergency Response

Waste Water

Haz. Waste

Underground Tanks

Water Resources

License/Permit/Monitoring Number

Other

Page 1 of 1

Boring Number

Bob's Service Station, Falun, Wisconsin						Test Pit #1a								۱ I
Boring Dr	illed By (Fir	m name	and nar	me of crew chief)		rilling Star	ted	Date Drilling Completed			Drilling Method			
	Brothers (07/25		MM/DD/YY	07/25/9		MM/DD/YY Backhoo Surface Elevation		e Test Pit Borehole Dia.		
DNH Faci	lity Well No.			que Well No.	Comm Name	on Well	rinai Sta	tic Water L	evei	Sumace El	evation		1	1
Boring Lo	cation State	Plane			Lat.		Local Gr	id Location	n (If applica	able)			NOLA	pplicable
-									N	·		Ε		
	f NW 1/4 of	Section	19, Tow	nship 38 N, Range 17 W	Long.		<u> </u>	Feet	<u> </u>		Feet	W		
County					DNR County Code Civil Town/City/or Village									
Burnett	MPLE					7	1				lun L PROPE	DTIES		
	LENGTH	BLOW	DEPTH	SOIL/ROCK DESCRIPTION	USCS	GRAPHIC	WELL	PID	STANDARD	MOISTURE	LIQUID	PLASTIC	P-200	
NUMBER	RECOV- ERED (FT)	COUNT	IN FEET	AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT		LOG	DIAGRAM	RESPONSE	PENETRA-	CONTENT	LIMIT	LIMIT		comment
			-0											
			- -1											
			-											
			-2											
			-	Brown Fine Sand	sw			Na		Moist				Odor
1			-3 -	with fine to medium gravel	31			No Response		NIOISL				Ouoi
			-4	5										
			-											
			-5	As Above	sw			113.5		Moist				
2			-6											
			-7											
			-8	As Above	SW			15.6		Moist				
3			-											
			-9											
			-10											
			-	Sandy Clay	ML			No		Moist				
4			-11					Response						
			-12			•								
			-	Test Pit Terminated										
			-13	at 12 Feet										
			-14											
			-											
			-15											
			-16											
			-17											
			- 18											
			- 10											
			-19											
			- -20		•									
			- 20											
			-21											
			- 22											
			- 22											
l herebv	certify tha	t the inf	formatio	on on this form is true and corr	ect to t	ne best o	f my kno	wledge.						
Signatu			Λ			Firm		Ŭ						
Signatu	" An	-X/	\mathcal{D}_{-}						TEO					
	$()0^{\mu}$	J's	Kas	2mole)						onaltice: T	o of o b a c	tions	·	
This form is authorized by Chapters 144.147 and 162, Wis.Stats than \$10 or nor more than \$5,000 for each violation. Fined not					s. Com	netion of an \$10 or	more the	an \$100 o	uatory. P or impriso	enames: Fo	oneit no ss than	u iess 30 dav	s. or	
both for	each viola	tion. E	ach da	y of continued violation is a se	parate d	offense, p	oursuant	to ss 144.	.99 and 1	62.06, Wis	. Stats.		_, •,	

State of Wisconsin	
Department of Natural	Resources

Route to: _____ Solid Waste

____ Waste Water

Emergency Response

Haz. Waste _

Underground Tanks Water Resources

____ Other

Facility/P	roject Name)			Licens	e/Permit/N	Ionitoring	Number			Boring	Page Numbe			
•	•		alun, V	Wisconsin		•	Ŭ				Test Pit #1b				
				ne of crew chief)	Date D	rilling Star	ted	Date Drilling Completed			Drilling Method				
Oachs	Brothers (Constru	uction,	Inc.	07/25	/94	MM/DD/YY	07/25/9		MM/DD/YY	6	Backho	e Test	Pit	
DNR Fac	ility Well No		WI Unic	que Well No.	Comm	on Well	Final Sta	tic Water Level Surface Ele			evation Bo			hole Dia.	
					Name								Not A	pplicabl	
Boring Lo	ocation State	e Plane			Lat.		Local Grid		rid Location (If applicable)						
		• •	(a T						N			E W			
	t NW 1/4 of	Section	19, Iow	nship 38 N, Range 17 W	Long.			Feet	<u> </u>	/11	Feet				
County					DNRC	ounty Coo	18	CIVIL TOW	n/City/or \	-					
Burnett				p	ļ	7					lun	CTICO.			
SAL	UPLE LENGTH	BLOW	DEPTH	SOIL/ROCK DESCRIPTION	USCS	GRAPHIC	WELL	PID	STANDARD			PLASTIC	P-200		
NUMBER	RECOV-	COUNT	IN	AND GEOLOGIC ORIGIN FOR		LOG	DIAGRAM	RESPONSE	PENETRA-	CONTENT	LIMIT	LIMIT		comment	
	ERED (FT)	Į	FEET	EACH MAJOR UNIT					TION			ļ			
			-0												
			-1												
			-												
			-2												
			- -3	Red-Brown F to M Sand	sw			6.2		Moist					
1			_												
			-4												
			-												
			-5	Brown F to M Sand	sw			1176		Moist					
2			-6	Brown to Wroand				1170		INCISE					
-			_												
			-7												
			-												
з			-8	As Above	SW			31.4		Moist					
3			-9		-										
			_												
			-10												
			-	Grey Clay	ML			No		Dry					
4			-11		2			Response							
			-12												
			-	Test Pit Terminated	2										
			-13	at 12 Feet											
			-												
			-14												
			-15												
			-												
			-16												
			- 17												
			-17 -												
			-18												
			-												
			-19												
			-20												
			-21												
			-												
			-22												
			. –		L	l	6		Į	Į			L		
			ormatic	on on this form is true and corr	ect to t	1	T my kno	wieage.							
Signatu	re fr	γ	$\langle \rangle$			Firm									
	τ 101	ÚĽ	Kase	mere				OCIA							
This forr	n is author	ized by	Chapte	ers 144.147 and 162. Wis.Stats	. Comp	oletion of	this repo	rt is man	datory. Po	enalties: Fo	orfeit no	ot less			
than \$10) or nor ma	ore than	\$5,000) for each violation. Fined not	less that	an \$10 or	more that	an \$100 o	r impriso	ned not les	is than	30 days	s, or		
a				a set a second tensor of the set of the set		- H			<u></u>	00.00 14/	0+-+-				
both for	each viola	tion. E	ach day	of continued violation is a sep	oarate o	offense, p	oursuant t	o ss 144.	99 and 1	62.06, Wis	Stats.				

State of Wisconsin Department of Natural Resources Route to: _____ Solid Waste

____ Waste Water

Emergency Response

Haz. Waste

_ Underground Ian _ Water Resources

____ Other

												Page	1 of 1			
Facility/Project Name					License/Permit/Manitoring Number							Boring Number				
Bob's S	ervice Sta	ation, F	Falun, V	Wisconsin							Test Pit #2					
Boring Dr	illed By (Fir	m name	and nar	ne of crew chief)	Date D	rilling Star	ted	Date Drill	ing Comp	eted	Drilling	Method				
Oachs I	Brothers (Constru	uction,	Inc.	07/25	/94	MM/DD/YY	07/25/9	4	MM/DD/YY	B	ackhoe	e Test	Pit		
DNR Faci	lity Well No.		WI Unic	que Well No.	Comm	on Well	Final Sta	tic Water L	evel	Surface Ele	vation		Bore	nole Dia.		
					Name								Not A	pplicable		
Boring Lo	cation State	Plane			Lat.		Local Gr	id Location	(If applica	able)						
									N		_	E				
NW 1/4 o	f NW 1/4 of	Section	19, Tow	nship 38 N, Range 17 W	Long.			Feet	<u> </u>	Alter States and State	Feet	W				
County						ounty Cod	le	Civil Tow	n/City/or V	-						
Burnett						7					lun					
SAN		BLOW	DEPTH	SOIL/ROCK DESCRIPTION	USCS	GRAPHIC	WELL	PID	STANDARD	MOISTURE		PLASTIC	D 000			
NUMBER	RECOV-	COUNT	IN	AND GEOLOGIC ORIGIN FOR	0303	LOG	DIAGRAM		PENETRA-	CONTENT	LIQUID	LIMIT	P-200	comment		
	ERED (FT)	ļ	FEET	EACH MAJOR UNIT					TION							
			-0													
			-1											(
			-2													
			-													
			-3	Red-Brown F to M Sand	SM			No		Dry						
1			-	with clay				Response								
			-4													
			-5													
			-	Grey Clay	ML			No		Dry						
2			-6	with mottling				Response								
			-													
			-7													
				As Above	ML			No		Dry						
3				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Response		Diy						
			-9													
			-													
			-10							_						
				As Above	ML			No		Dry						
4			- 11 -					Response								
			-12													
			_	Test Pit Terminated												
			-13	at 12 Feet												
			-		[
			-14													
			- -15													
			-													
			-16													
			-													
			-17													
			- -18													
			-													
			-19													
			-													
			-20													
			-21													
			-22													
		 		<u> </u>												
I hereby	certify that	t the inf	ormatic	on on this form is true and corr	ect to th	ne best o	f my kno	wledge.								
Signatur		M	Λ^{-}			Firm										
Signatur	"Ston	·Al	/	\frown		1										
	\Vh	Uth	Pei	now				SOCIAT								
This form	n is author	ized by	Chapt	ers 144.147 and 162, Wis.Stats	. Comp	pletion of	this repo	rt is man	datory. Pe	enalties: Fo	orfeit no	t less				
than \$10) or nor mo	bre than	\$5,000) for each violation. Fined not	iess tha	in \$10 or	more the	an \$100 o	r impriso	nea not les	state	ou days	s, or			
not utod	each viola	uon. E	acn day	of continued violation is a ser	Jarale C	mense, p	ursuant	0 35 144.	and 1	UZ.UO, WIS.	Jials.			1		

State	of Wiscor	nsin	
Depa	rtment of	Natural	Resources

Route to:

Solid Waste

Waste Water

Emergency Response

Haz. Waste

Underground Tanks

_ Water Resources

Other

												Page				
	oject Name				License/Permit/Monitoring Number							Boring Number Test Pit #3				
				Wisconsin me of crew chief)	Dete D	rilling Star	ted	Deto Drill	ing Comp	otod	Drilling Method					
	Brothers (07/25	-	MM/DD/YY	Date Drilling Completed 07/25/94 MM/DD/YY			Backho			Dit		
	lity Well No.			que Well No.		on Well		atic Water Level Surface El				acritice		ric nole Dia.		
Ci i i i i i					Name				6101		Value			pplicable		
Boring Lo	cation State	Plane	000000000000000000000000000000000000000		Lat.		Local Gr	d Location	(If applica	abie)			HOL /	ppilcable		
_								N				E				
	f NW 1/4 of	Section	19, Tow	nship 38 N, Range 17 W				Feet	S		Feet	W				
County						ounty Coo	le	Civil Tow	n/City/or V	-						
Burnett						7				Fa						
SAN		BLOW	DEPTH	SOIL/ROCK DESCRIPTION	USCS	GRAPHIC	WELL	PID	STANDARD	MOISTURE		PLASTIC	P-200			
NUMBER	RECOV-	COUNT	IN	AND GEOLOGIC ORIGIN FOR		LOG	DIAGRAM	RESPONSE	PENETRA-	CONTENT	LIMIT	LIMIT		comment		
	ERED (FT)		FEET	EACH MAJOR UNIT					TION							
			-		1											
			-1													
			-													
			-2													
			-3	Brown Fine Sand to 3 feet	SP			No		Moist						
1			-	From 3 feet Grey Clay	ML			Response								
			-4	with mottling												
			- -5													
			-5	Grey Clay	ML			13.1		Dry						
2			-6	with mottling						,						
			-	_												
			-7													
				As Above	ML			44.6		Dry						
3			-					41.0		2.9						
			-9													
			-													
			-10 -	As Above	ML			1.5		Dry						
4			-11							5.9						
			-													
			-12	Test Pit Terminated												
			-13	at 12 Feet												
			-				1									
			-14													
			-													
			-15 -													
			-16													
			-		1											
			-17													
			- -18													
			-													
			-19													
			- -20		1											
			-			•										
			-21													
			-													
			-22													
I hereby	Certify that	the inf	ormatio	on on this form is true and corr	ect to #	e heet o	f my know	vledge								
								meuye.								
Signatur	• Ja	· 1]/]	\square		Firm										
	$\nabla \mathcal{O}_{i}$	KI	HC	Demore)				OCIAT								
This form	n is author	zed by	Chapte	ers 144.147 and 162, Wis.Stats	. Comp	letion of	this repo	rt is mand	latory. Pe	enalties: Fo	orfeit no	t less				
than \$10	or nor mo	tion F	\$5,000 ach dav) for each violation. Fined not of continued violation is a set	iess ma harate o	ffence n	more ma ursuant t	0 90 144 (0 99 144 (imprisol	190 NOT 189	s man State	su days	s, or			
Jourior	CACIT VICIAI		aon udy	or contained aloranon is a se			arouten t							I		

State of Wisconsin Department of Natural Resources

Route to: _____ Solid Waste

____ Waste Water

___ Emergency Response

Haz. Waste

Facility/ProjectName Bob's Service Station, Falun, Wisconsin						e/Permit/N	Aanitaring		Page 1 of 1 Boring Number Test Pit #4					
				me of crew chief)	Data D	Filling Star	ted	Deta D-1	ing Comp		D-00	Method		•
	Brothers				07/25		MM/DD/YY	07/25/9				ackho		DH
	lity Well No			que Well No.	4	ion Well		tic Water L		MM/DD/YY Surface Ele		Dackno		hole Dia.
District		•			Name			9 Feet		Sui lace El	svauori			Applicable
Boring Lo	cation Stat	e Plane			Lat.		Local Gr	id Location	(if applic	able)			NOU	Applicable
									N (upp			Е		
NW 1/4 o	f NW 1/4 of	Section	19, Tow	nship 38 N, Range 17 W	Long.			Feet	s		Feet	— w		
County					DNRC	County Cod	je	Civil Tow	n/City/or \	/illage				
Burnett						7				Fa	lun			
SA	MPLE									SOI	PROP	ERTIES		
NUMBER	LENGTH RECOV- ERED (FT)	BLOW	DEPTH IN FEET	SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT	USCS	GRAPHIC LOG	WELL DIAGRAM	PID RESPONSE	STANDARD PENETRA- TION	CONTENT	LIQUID	PLASTIC LIMIT	P-200	comment
			0											
			-											
			-1 -											
			-2											
			-											
.			-3	Grey Clay	ML			No		Moist				
1			-	with mottling				Response						
			-4											
			-5											
			-	As Above	ML			No		Dry				
2			-6					Response						
			-											
			-7											
			-	As Above	ML			N-		Der				
з			-8		ML			No Response		Dry				
5			-9					nesponse						
			_											
			-10											
			-	As Above	ML			No		Dry				
4			-11					Response						
			-12											
			- -13	(Red-Brown Fine Sand)	(SP)					(Wet)				
			-											
			-14											
			-15											
			-					1						
			-16											
			-											
			-17 -											
			-18			.								
			-											
			-19											
			-											
			-20											
			-21											
			-											
			-22											
hereby	certify the	t the inf	- ormatic	on on this form is true and corr	ect to th	l he hest o	 f mv knov	Medae						
	~		A		<u></u>	T		mougo.						
Signatur		N	Car	unoz		Firm AYRE	S ASS		TES					
This for	n is author	rized by	Chapte	ers 144.147 and 162, Wis.Stats	. Com					enalties: Fo	orfeit no	t less		
than \$10) or nor ma	ore than	\$5,000) for each violation. Fined not	less that	an \$10 or	more that	an \$100 o	r impriso	ned not les	is than	30 day	s, or	
both for	each viola	tion. E	ach day	of continued violation is a se	oarate c	offense, p	oursuant t	o ss 144.	99 and 1	62.06, Wis.	Stats.			
					_									

State of Wisconsin	
Department of Natural	Resources

Route to: _____Solid Waste

Emergency Response

Waste Water

- Haz. Waste _
- Underground Tanks
- Water Resources

Other

												Page				
	Facility/Project Name Bob's Service Station, Falun, Wisconsin					License/Permit/Monitoring Number						Boring Number Test Pit #5				
					D-4- D		-to-al	Dete D.		المعمدا	Drilling Method					
				me of crew chief)		rilling Sta			ling Comp		-			D '1		
	Brothers (07/25		MM/DD/YY	, .		MM/DD/YY	Backho					
DNH Faci	lity Well No	•	WIUNI	que Well No.		on Well	Final Sta			Surface Ele	Lievation			hole Dia.		
Poving Lo	cation State	Plano			Name Lat.			9 Feet id Locatior) (If enplice	able)			Not A	Applicable		
boring to	Cauon Olan				Lai.				N N	ablej		Е				
NW 1/4 o	f NW 1/4 of	Section	19. Tow	nship 38 N, Range 17 W	Long.		1	Feet	S		Feet	— 🖕				
County						ounty Cod	-	1	n/City/or \							
Burnett						7			, ,	-	lun					
	MPLE	1							[RTIES				
	LENGTH	BLOW	DEPTH	SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR	USCS	GRAPHIC	WELL	PID	STANDARD	MOISTURE	LIQUID	PLASTIC	P-200			
NUMBER	RECOV- ERED (FT)	COUNT	IN FEET	EACH MAJOR UNIT		LOG	DIAGRAM	HESPONSE	PENETRA-	CONTENT	LIMIT	LIMIT		comment		
		1	-0		l											
			-		ĺ											
			-1													
			-2													
			_													
			-3	Grey Fine Sand	SP			No		Moist						
1			-					Response								
			-4													
			- -5													
			_	Grey Clay	ML			No		Dry						
2			-6	with mottling				Response								
			-]											
			-7													
			-8	As Above	ML	1		No		Dry						
3			_					Response								
			-9													
			-													
			-10 -	As Above	ML			No		Dry						
4			-11					Response		.,						
			-													
			-12													
			- -13	Test Pit Terminated												
			_	at 12 Feet			ſ									
			-14													
			-													
			-15													
			-15													
			-													
			-17													
			- -18													
			-													
			-19													
			-													
			-20 -											1		
			-21													
			-													
			-22													
l bereby	certify the	t the inf	ormatic	on on this form is true and corre	ect to #	he best o	f my know	wledge	1	<u>L</u>		<u>.</u>				
			~			1		meuye.								
Signatur	"In	·XI	\square	\frown		Firm										
	<u>(</u>)UL	Jul .		pund		1		INICAL								
This for	n is author	ized by	Chapte	ers 144.147 and 162, Wis.Stats	. Comp	pletion of	this repo	rt is man	datory. Po	enalties: Fo	orfeit no	t less				
than \$10	or nor mo	tion) \$5,000 ach dei) for each violation. Fined not of continued violation is a ser	iess tha	an \$10 or Mense	more that	an \$100 o o se 144	r Impriso	nea not les 62.06 Wie	State	ou days	s, or			
DOUTION	eauri viula	uun. E	auri ud)	or continued violation is a set	arale (1013 0 , 1			Se anu i	UZ.00, WIS.	Jais.]		

Department of Natural Resources

Route to: ____ Solid Waste

____ Waste Water

____ Emergency Response

Other

Water Resources

	acility/Project Name OB'S SERVICE — FALUN pring Drilled By (Firm name and name of crew chief)					Page 1 of License/Permit/Monitoring Number Boring Number B/W – 1 B/W – 1								
Boring Dr	rilled By (Fi	m name	and nam		1	rilling Star	ted		ling Comp	pleted Drilling Method				
				RVICES-GARY WELLNER	10/30		MM/DD/YY	10/30/9			4.25" ł			
DNR Faci	ility Well No	•	WI Uni	que Well No.	Comm Name	on Well	Final Sta	tic Water I	_evel	Surface Elev 98.2		on	Boreho 8"	ole Dia.
Boring Lo	ocation Stat	e Plane			Lat.		Local Grid Location (If		n (If applica		90.20	E	10	
NW 1/4 C	F NW 1/4,	SECTIO	V 19, T3	BN, R17W	Long.			Feet	S		Feet	w		
County BURNE	TT							Civil Town/City/or Village FALUN						
SA		BLOW	DEPTH	SOIL BOCK DESCRIPTION	USCS	GRAPHIC	WELL	PID	MOISTURE	LAE	RESUL	TS (mg/	Kg)	· · · · · · · · · · · · · · · · · · ·
NUMBER	RECOV- ERED (IN)	COUNT		SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT		LOG	DIAGRAM	(field)	CONTENT	GRO	Benzene	Ethyl Benzene	Toluene	Xylene
S-1	8		1 1 2 3 3	Grey–green clay	CL			NR	м					
S-2	20		-4 - 5- - -6	As Above (A. A.)	CL			0.3	м					
S-3	24		- - 7- -8 - -9	A. A.	CL			0.3	м	<1.0	<.025	<.025	<.025	<.05
S-4	24		 	Bm fn-med sand, tr gravel ground water @ 10'?	SP			0.3	w					
S-5	24		-12- 	Brn med—fn sand	SP			0.3	w	<1.0	<.025	<.025	<.025	<.05
			-14 -15 -16 -17	END OF BORING 14.5 FEET										
			-17 -18 - 19 - -20											
			-21 -22 -22 -23											
			-24 25 25 26											
l hereby	certify tha	t the inf	ormatic	on on this form is true and correct t	to the b	est of my	/ knowled	dge.		I				
Signatur	e And	m_{l}	1	E Hicks		Firm AYRE	S ASS	OCIATI						
than \$10	or nor mo	ore than	\$5,000	ers 144.147 and 162, Wis.Stats. Co o for each violation. Fined not less of continued violation is a separa	than \$	10 or mo	re than \$	100 or im	prisoned	not les	s than (t less 30 days	s, or	

 State of Wisconsin
 WELL/DRILLHOLE/BOREHOLE ABANDONMENT

 Department of Natural Resources
 Similar to Form 3300-5B
 Rev. 12-91

 All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis.
 Rev. 12-91

 Admin. Code, whichever is applicable. Also, see instructions on back.
 (1) GENERAL INFORMATION:

(1) GENERAL INFORMATION	(2) FACILITY NAME									
Well/Drillhole/Borehole	County		Origi	nal Well Own	er (lf Known)					
Location	Burnett									
				nt Well Owner						
<u>NW</u> 1/4 of <u>NW</u> 1/4 of Sec. <u>1</u>	<u>?; T. 38 N; R. 17 🛛 W</u>			Robert And	derson					
(If Applicable)			Street or Route							
Gov't Lot	Grid Number	10531 State Highway 70								
Grid Location			City, State, Zip Code							
fl. 🗌 N. 🗌 S.	ft. E. W.			n, WI 548			· · · · · · · · · · · · · · · · · · ·			
Civil Town Name				•	nd/ or Name (If Ap	plicable)	WI Unique Well No.			
Daniels			B-W	/ I on for Abando						
Street Address of Well 10545 State Highway 70					orehole / Temp	orary We	11			
City, Village				of Abandonme			11			
Falun				0-95						
WELL/DRILLHOLE/BOREH										
(3) Original Well/Drillhole/Borehole Constr		(4)	Dentl	to Water (Fe	et) 10					
10.00	uction Completed On		•	& Piping Rei		3 🗌 No 🛛	7 N/A			
(Date) 10-30-95				(s) Removed?		$ \square N 0 2$				
Monitoring Well	Construction Report Available?			n Removed?		3 🗌 No 🗌				
Water Well	Yes No			g Left in Plac						
Drillhole			If No	, Explain						
Borehole				<u>Te</u>	mporary Well					
				-	f Below Surface?	=	⊠ No			
	_			-	al Rise to Surface?	_				
Drilled Driven (S	andpoint) Dug				After 24 Hours?	_				
Other (Specify)				lf Yes, Was H	ole Retopped?	∐ Yes	No			
Formation Type:		(5)	Requ	ired Method o	f Placing Sealing N	laterial				
Unconsolidated Formation	Bedrock		Ø	Conductor Pip	e - Gravity	Conducto	r Pipe - Pumped			
Total Well Depth (ft.) 14.5	Casing Diameter (in.) 2.0		Пг	Dump Bailer	Г	Other (Ex	olain)			
(From Groundsurface)	g						•			
		(6)	Sealin	ng Materials			oring wells and g well boreholes only			
			א ב ו	leat Cement C	Grout					
Casing Depth (ft.)10				and - Cement	(Concrete) Grout	Bento	onite Pellets			
_		1		Concrete			ular Bentonite			
Was Well Annular Space Grouted?	Yes No Unknown			Clay - Sand Sh	•	Bento	onite - Cement Grout			
				Bentonite - Sar	•	l				
If Yes, To What Depth?	Feet	<u> </u>		Chipped Bento	nite					
(7) Sealing Materia	ll Used	From	ı (Ft.)	To (Ft.)	Number of Vards 🛛 Sac	ks 🔲 Vol.	Mix Ratio or Mud Weight			
3/8 inch Bentonite Chips		Sur		5.0	2					
#30 Red Flint Filter Sand		5.0		14.5	5.0					
		1								
·						·	- <u> </u>			
		L								
(8) Comments:	W1-		(10)		NR OR COUN	TVICE				
Name of Person or Firm Doing Sealing			(10)							
Midwest Engineering Services, Signature of Person Doing Work		╡╹	Date	Received/Insp	bected	District/C	ounty			
	Date Signed 10/31/95		D!				alving West			
	Celephone Number		Revie	wer/Inspector			plying Work complying Work			
	715) 720-0700		Follo	w-up Necessa	rv					
City, State, Zip Code		1	1 0110	up 11000388	• •					
Chippewa Falls, WI 54729		•								

Department of Natural Resources

Route to: ____ Solid Waste

Haz. Waste

7	_	91

				Emergency Response Waste Water	w	ndergrour /ater Reso ther								
BOB'S	roject Name SERVICE	– FAL			B						B-2	Page 1 Numbe	r	
-	• •			me of crew chief) RVICES—GARY WELLNER	10/30	-	MM/DD/YY	10/30/9		leted MM/DD/Y I	-	Method ⊣S∆		
	ility Well No			que Well No.		on Well		tic Water I		Surface	e Elevati			ole Dia.
Boring Lo	ocation Stat	a Diane			Name Lat.		Local Gr	id Location	n (If applic		98.34		8"	
							Locardi		N	1016/		E		
NW 1/4 C County	DF NW 1/4, 3	SECTIO	N 19, T3	8N, R17W	Long.	County Cod		Feet Civil Tow	S /n/City/or \		Feet	W		
BURNE	TT				Diaro	07		FALUN		-				
SAI NUMBER	MPLE LENGTH RECOV - ERED (IN)	BLOW	DEPTH IN FEET	SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (field)	MOISTURE	GRO	Benzene	TS (mg/ Ethyl- Benzene	Kg) Toluene	Xylene
S-1	16		-0 -1 -2 -3	Grey–green clay (petroleum odor)	CL			525	м	1400	17	14	25	72
S-2	24		-4 - 5- - -6	As Above (A. A.)	CL			518	м					
S–3	24		- - 7- - 8 -	A . A .	CL			50	м					
S-4	24		-9 -10- - -11	Bm fn—med sand	CL SP			50	w					
S–5	24		- -12- -13 -	ground water @ 11'? A. A.	SP			40	w					
S-6	24		-14 -15- - -16	Bm med-fn sand	SP			30	w	1.9	<.025	<.025	<.025	<.05
			-17- -18 - -18 -	END OF BORING 17.0 FEET										
			20 21											
			-22 - -23 -											
			-24 - -25 - -26											
			-											
l hereby Signatur	e A		det and an an the face and the	on on this form is true and correct t	the b	Firm	y knowled S ASSC	-						
than \$10	n is author) or nor mo	ore than	Chapte \$5,000	ers 144.147 and 162, Wis.Stats. Co of reach violation. Fined not less of continued violation is a separa	than \$	on of this 10 or mo	report is re than \$	mandato 100 or im	ory. Penal prisoned	not les	s than (t less 30 days	s, or	
DOTH TOP	each viola	tion. <u>E</u> a	ach day	or continued violation is a separa	te oner	ise, purs	uant to ss	<u>i 144.99 i</u>	and 162.0	io, vvis.	Stats.			

State of Wisconsin

Department of Natural Resources	Similar to Form 3300-5B
All abandonment work shall be performed in accordance with the provisions of Chapters NR 11	1, NR 112 or NR 141, Wis.
Admin. Code, whichever is applicable. Also, see instructions on back.	

(1) GENERAL INFORMATION	J	(2)	FAG	CILITY NA	ME		
Well/Drillhole/Borehole	County		Origi	inal Well Own	er (If Known)	-	
Location	Burnett						
				nt Well Owne			
<u>NW</u> 1/4 of <u>NW</u> 1/4 of Sec.	<u>19; t. 38 n; r. 17 🛛 w</u>			Robert An	derson		
(If Applicable)	<i>·</i>			t or Route	1 70		
Gov't Lot	Grid Number			31 State Hi	e ;		
Grid Location			•	State, Zip Co			
ft. 🗌 N. 🗌 S	ft E W.			en, WI 548			
Civil Town Name				ity Well No. a	nd/ or Name (If Ap	plicable)	WI Unique Well No.
Daniels			B-2				
Street Address of Well				on for Abando			
10545 State Highway 70			-	loratory Bo		_	
City, Village				of Abandonm	ent		
Falun		_	10-:	30-95			
WELL/DRILLHOLE/BORE		-					
(3) Original Well/Drillhole/Borehole Con	struction Completed On	(4)	Dept	h to Water (Fe	et) <u>10.5</u>	<u> </u>	_
(Date) 10-30-95			Pump	p & Piping Re	moved? 🔲 Yes		
		1		r(s) Removed?	=		N/A
Monitoring Well	Construction Report Available?			en Removed?			N/A
Water Well	Yes 🗌 No			ng Left in Plac	e? 🗌 Yes	3 🗌 No 🛛	S N/A
			If No	o, Explain			
Borehole				a i a			
				-	f Below Surface?	Yes	
				-	al Rise to Surface?		
	(Sandpoint) Dug				After 24 Hours?		
Other (Specify)				II I es, was H	ole Retopped?	L Y es	No
Formation Type:		(5)	Requ	ired Method o	of Placing Sealing N	Aaterial	
			57		- · г	-	
Unconsolidated Formation	Bedrock		Ø	Conductor Pip	e - Gravity	_ Conducto	r Pipe - Pumped
Total Well Depth (ft.) 17.0	Casing Diameter (in.) _4.25			Dump Bailer	Г	Other (Ex	nlain)
(From Groundsurface)				-			
		(6)	Seali	ng Materials			oring wells and
				Neat Cement (Front	monitorin	g well boreholes only
Casing Depth (ft.) 17.0			=		(Concrete) Grout		onite Pellets
				Concrete	(concrete) Grout		ular Bentonite
Was Well Annular Space Grouted?	Yes No Unknown			Clay - Sand Sh	urry		onite - Cement Grout
·····				Bentonite - Sar			
If Yes, To What Depth?	Feet			Chipped Bento	•		
		1		1	I		
7) Sealing Mate	rial Used	Fron	n (Ft.)	To (Ft.)	Number of Vards 🛛 Sac	ks 🗖 Vol.	Mix Ratio or Mud Weight
3/8 inch Bentonite Chips		÷	face	7.0	2		inde oregin
Sie men Dentomite empl	Auguston	7.0		17.0	-		
	· · ·	1 7.0		1 17.0			
· · · · · · · · · · · · · · · · · · ·							
8) Comments:	······						
Name of Person or Firm Doing Sealing	g Work		(10)	FORD	NR OR COUN	ITY USE	ONLY
Midwest Engineering Service			Date	Received/Insp	ected	District/C	ounty
Signature of Person Doing/Work	Date Signed						-
Thepart Kenter	10/31/95		Revi	ewer/Inspector	-	Com	olying Work
Street or Reute	Telephone Number						omplying Work
13 E. Spruce St., No. 105	(715) 720-0700		Folle	w-up Necessa	ry		
City, State, Zip Code	•			-	-		
Chippewa Falls, WI 54729							

Department of Natural Resources

Route to: ____ Solid Waste —

Emergency Response

Haz. Waste

Underground Tanks

-	oject Name				Licens	e/Permit/N	lonitoring	Number			Boring B-3	Page 1 Numbe	r of 2		
	SERVICE			me of crew chief)	Date D	rilling Star	ted	Date Dril	ling Comp	eted		Method	1		
				RVICES-GARY WELLNER	10/30	-	MM/DD/YY	10/30/9			4.25"				
NR Faci	lity Well No.		WI Unic	que Well No.	Comm Name	on Well		tic Water L			e Elevati 98.86	on	Borehole Dia. 8"		
oring Lo	cation State	Plane			Lat.		Local Gri	d Location	n (If applica N	able)		E			
W 1/4 O	F NW 1/4, S	SECTIO	N 19, T3	BN, R17W	Long.			Feet	<u> </u>		Feet	<u> </u>			
ounty					DNR C	County Coo	le	•	n/City/or V	'illage					
	II MPLE					07		FALUN		LA	3 RESUL	TS (ma	/Ka)		
UMBER	LENGTH RECOV- ERED (IN)	BLOW COUNT	DEPTH IN FEET	SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (field)		GRO	Benzene	Ethyl- Benzene	Toluene	Xylene	
			-0 - -1												
			- -2												
S–1	24		 -3	Brn med-fn sand w/ silt to 4.3'	SM			NR	м						
			-4 -4	Grey-green clay	CL										
3–2	24		- 5- - -6	As Above (A. A.)	CL			1.0	М						
			- - 7-												
S-3	16		-8 -	A. A.	CL			NR	м						
			-9 												
8–4	20		-10- - -11	Bm fn-med and (petroleum odor, diesel?) ground water @ 10'?	SP			16	W	2.8	0.05	0.047	0.034	0.237	
8–5	20		- -12- 	A. A.	SP			14	w	1.6	<.025	0.029	<.025	0.180	
			- -14												
			-15 -	END OF BORING 14.5 FEET											
			-16 - -17												
			- -19												
			 -20												
			- -21												
			- -22												
			- -23												
			_ _24												
			-												
		t the inf	ormatic	on on this form is true and correct	to the t	1	/ knowled	lge.							
ignatur	la	m	1	C Kicks						A		4.1-			
nan \$10	or nor mo	ore thar	\$5.000	ers 144.147 and 162, Wis Stats. Co) for each violation. Fined not less	than \$	10 or mo	re than \$	100 or im	prisoned	not les	ss than :	t less 30 days	s, or		
oth for	each viola	tion. E	ach day	of continued violation is a separa	te offer	nse, pursi	uant to se	s 144.99 a	and 162.0	6, Wis	. Stats.				

State of Wisconsin

Rev. 12-91

Department of Natural Resources All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION	(2)	FACIL	ITY NA	ME		
Well/Drillhole/Borehole County		Original	Well Owne	r (lf Known)		
Location Burnett						
			Vell Owner			
<u>NW</u> 1/4 of <u>NW</u> 1/4 of Sec. <u>1.9</u> ; T. <u>38</u> N; R. <u>17</u> \boxtimes W			bert And	lerson		
(If Applicable)		Street or		1		
Gov't Lot Grid Number				ghway 70		To - 1.6 Mar. 4
Grid Location		•	te, Zip Cod			
ft. 🗌 N. 🗌 S ft. 🗋 E. 🗋 W.			WI 548			I
Civil Town Name		•	Vell No. ar	id/ or Name (If App	plicable)	WI Unique Well No.
Daniels Street Address of Well		B-3	or Abandor			<u> </u>
			atory Bo			
10545 State Highway 70 City, Village			Abandonme			
Falun		10-30-9	95			
WELL/DRILLHOLE/BOREHOLE INFORMATION						
(3) Original Well/Drillhole/Borehole Construction Completed On	(4)	Depth to	Water (Fee	et) 10		
(Date) 10-30-95		•	Piping Ren			
		-	Removed?	=		
Monitoring Well Construction Report Available?		.,	emoved?			
Water Well Yes No		Casing L	eft in Place	e? 🗌 Yes	🗌 No 🛛	N/A
		If No, Ex	plain			
Borehole						M
				Below Surface?	_	⊠ No □ No
Drilled Driven (Sandpoint) Dug			0	After 24 Hours?	_	
Other (Specify)				ble Retopped?		
Formation Type:	(5)	_		Placing Sealing M	_	
Unconsolidated Formation Bedrock		Con	ductor Pipe	- Gravity	Conducto	r Pipe - Pumped
Total Well Depth (ft.) 14.5 Casing Diameter (in.) 4.25		Dum Dum	p Bailer		Other (Ex	xplain)
(From Groundsurface)	(6)	Sealing N	Aaterials		For monit	toring wells and
		_				g well boreholes only
			Cement G			
Casing Depth (fl.) <u>14.5</u>				(Concrete) Grout		onite Pellets ular Bentonite
Was Well Annular Space Grouted? 🗌 Yes 🗌 No 📄 Unknown		_	- Sand Slu			onite - Cement Grout
			onite - San	-		
If Yes, To What Depth? Feet		🛛 Chip	ped Bentor	nite		
(7)	I			Number of		Mix Ratio or
(7) Sealing Material Used	From ((Ft.)	To (Ft.)	Vards 🛛 Sacl	ks 🗌 Vol.	Mud Weight
3/8 inch Bentonite Chips	Surfa	ace	9.0	2.5		
	9.0		14.5	caved		
(8) Comments:						
Name of Person or Firm Doing Sealing Work		(10)	FOR D	NR OR COUN	TY USE	ONLY
Midwest Engineering Services, Inc.		. ,	eived/Insp	1	District/C	
Signature of Person Doing Work Date Signed /			P			
Rugen flensher 10/31/95		Reviewe	r/Inspector	ĺ	Com	plying Work
Street or Route Telephone Number	i		-			complying Work
13 E. Spruce St., No. 105 (715) 720-0700	ΙΓ	Follow-u	p Necessar	y		
City, State, Zip Code	L					
Chippewa Falls, WI 54729						-

Departr	nent of N	latural R	esource	Route to: Solid Waste Emergency Response Waste Water	Haz. Waste SOIL BORING LOG INFORMATION Underground Tanks Water Resources Other Page 1 of 1											
Facility/	Project N		B'S SE	RVICE - FALUN	Licens	se/Permit/I	Monitoring	Numbe		Boring Number B-4						
-	-			I name of crew chief) RV. INCGARY WELLNER	1	Drilling Sta /30/95	irted M/D/Y		illing Cor 80/95	nplete M/D/Y	Drilling M	HSA				
				ue Well No.	Comn	non Well					e Elevatio		Borehole Dia.			
Boring	Location	State P	ane					ation (If applicable)			· · · · · · · · · · · · · · · · · · ·					
County		/ 1/4, N	W 1/4, SE	ECTION 19, T 38 N, R 17 W	Long. Feet				N S wn/City/c	x V/020	Feet	E W				
			BI	URNETT		7			-	Ĩ	FALUN					
SAN	IPLE LENGTH	BLOW	DEPTH	SOIL/ROCK DESCRIPTION		MOISTURE		PETRO		BORA	TORY RE	SULTS	(mg/Kg)			
NUMBER	RECOV- ERED (IN)	COUNT	IN FEET	AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT		CONTENT	FIELD READING	ODOR	GRO	Benz.	Ethyi- Benzene	Toluene	Xylene			
			-1 -													
S-1	16		-2	Grey-green clay	CL	м	NR	None								
			-3 -													
			-4													
S-2	20		-5	As Above (A. A.)	CL	м	NR	None								
			-6 - -7													
S-3	24			A. A.	CL	м	NR	None								
			-8 -													
	24		-9 -10	0 0 to 11 5	CL	w	NR	None	<1.0	<.025	<.025	<.025	<.05			
S-4	24		- 11	A. A. to 11.5'		~~~		None		02 J	<.02J	<.025	<.05			
			-12	Brn fn-cse sand ground water @ 11.5'?	sw											
S-5	24		-13	Brn fn-med sand, tr gravel	SP	w	NR	None	<1.0	<.025	<.025	<.025	<.05			
			- -14													
				END OF BORING 14.5 FEET							•					
			- 16													
	ļ		- -17													
			- -18													
			- -19													
			- -20													
			- -21													
			- -22													
			- -23													
			- -24						ļ							
			- -25													
			- -26													
		y that t	ne inforr	mation on this form is true and correc	t to th	e best of Firm			5 4 5		INVLESLIE		GSV.XLT			
Signat	orm is a	uthorize	ed by Cl	C Mills	Comp	pletion of	this repo	rt is ma	ndatory	. Pena	Ities: For	teit not	less			
Ithan \$	10 or no	or more	than \$	5,000 for each violation. Fined not le n day of continued violation is a sepa	ss tha	in \$10 or	more that	an \$100	or impr	isonec	l not less	than 3	0 days, or			

.

State of Wisconsin

Rev. 12-91

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2)	FAC	CILITY NA	ME		
Well/Drillhole/Borehole	County		Origi	nal Well Own	er (If Known)		
Location	Burnett						
				nt Well Owner			
<u>NW</u> 1/4 of <u>NW</u> 1/4 of Sec	<u>9; t. 38 n; r. 17 🛛 w</u>			Robert And	lerson		
(If Applicable)				t or Route			
Gov't Lot	Grid Number			31 State Hig			
Grid Location			-	State, Zip Cod			
ft. 🗌 N. 🗌 S.	ft E W.			n, WI 548			-
Civil Town Name			Facili	ty Well No. ar	nd/ or Name (If Ap	plicable)	WI Unique Well No.
Daniels			B-4				
Street Address of Well				on for Abandor			
10545 State Highway 70			_	loratory Bo			
City, Village				or Abandonme 80-95	πι		
Falun			10-3	00-95			
WELL/DRILLHOLE/BORE		1					
(3) Original Well/Drillhole/Borehole Const	ruction Completed On	(4)	•	n to Water (Fee		F	-
(Date) 10-30-95			-	o & Piping Ren	_	_	
				(s) Removed?	Yes	_	
	Construction Report Available?			n Removed?			
	Yes 🗌 No			ig Left in Place	e? 🗌 Yes	□ No [S N/A
Drillhole			II NO.	, Explain			
Borenole			Wag	Casing Cut Of	F Below Surface?		⊠ No
				-	al Rise to Surface?	=	=
Drilled Driven (S	andpoint) Dug			-	After 24 Hours?	_	
Other (Specify)					ole Retopped?	_	
			-				
Formation Type:		(5)	Requ	ired Method of	f Placing Sealing N	faterial	
Unconsolidated Formation	Bedrock		$\boxtimes \circ$	Conductor Pipe	e - Gravity	Conducto	r Pipe - Pumped
Total Well Depth (ft.) 14.5	Casing Diameter (in.) <u>4.25</u>			Dump Bailer	Г	Other (Ex	plain)
(From Groundsurface)		<u> </u>					-
		(6)	Seali	ng Materials			toring wells and ag well boreholes only
				Veat Cement G	rout	l	
Casing Depth (ft.) 14.5			=		(Concrete) Grout	Bento	onite Pellets
				Concrete			ular Bentonite
Was Well Annular Space Grouted?	Yes No Unknown			Clay - Sand Slu	Irry	Bento	onite - Cement Grout
-			E	Bentonite - San	d Slurry		
If Yes, To What Depth?	Feet		$\boxtimes c$	Chipped Benton	nite		
(7)	-111	E	(E4.)	Ta(Et)	Number of		Mix Ratio or Mud Weight
Sealing Materia 3/8 inch Bentonite Chips		From	<u>``</u>	To (Ft.) 10.0	Yards Sact 3.0	na ∐ VOI.	Mud Weight
578 men Bentomte Cinps		10.0		10.0	caved		<u> </u>
· · · ·		1 10.0		14.5	Caveu		
	· · · · ·	╂					
(8) Comments:		<u> </u>		1			L
Name of Person or Firm Doing Sealing	Work	 	(10)	FOR	NR OR COUN	TY USF	ONLY
Midwest Engineering Services			. ,	Received/Insp		District/C	
	Date Signed /	╡╏	Date	Neceiven IIab			Jounty
Megan Henner	10/31/15		Revie	wer/Inspector			plying Work
	Telephone Number	╡ ┃	1.0410				complying Work
	(715) 720-0700		Follo	w-up Necessar	v		,
City, State, Zip Code	,	1	_ 383		-		
Chippewa Falls, WI 54729		'					

Departi	ment of N	latural F	lesource	Route to: Solid Waste Emergency Response Waste Water		Haz. Was Undergrou Water Res Other	und Tanks	5	SOIL E Form 44		G LOG I		fATION 7-91
Facility	/Project N		- B'S SE	RVICE - FALUN	Licens	se/Permit/I	Monitoring	y Numbe			Boring N		
		/ (Firm r	name and	d name of crew chief)	Date I	Drilling Sta	rted	Date Dr	illing Cor	nplete	Drilling M		
				RV. INCGARY WELLNER			M/D/Y		0/95	M/D/Y		4.25" I	
	acinty vve	in ino.		ue Well No.	Common Well Final Static Water Level				Level	Surfa	e Elevation 100.38	on	Borehole Dia. 8"
Boring	Location	State P	ane		Lat.		Local Gr	d Locatio		licable			0
	NM	/ 1/4, N\	N 1/4, SE	ECTION 19, T 38 N, R 17 W	Long.			Feet	— N S		Feet	— ^E w	
County			BI	URNETT	DNR	County Co 7	de	CIVIL TO	wn/City/c		e FALUN		
SAM	MPLE		T		F	, IELD OBS	ERVATIO	ONS			TORY RE	SULTS	(mg/Kg)
NUMBER	LENGTH RECOV- ERED (IN)	BLOW COUNT	DEPTH IN FEET	SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT	USCS	MOISTURE CONTENT	PID FIELD READING	PETRO ODOR	GRO	Benz.	Ethyl- Benzene	Toluene	Xylene
S-1 S-2 S-3 S-4 S-5	24 24 24 24 24		-15 -16 -17 -18 -19 -20 -21 -22 -23 -23 -24	Grey-green fn silty sand As Above (A. A.) to 6' Grey-green clay, tr fn sand Grey-green clay A. A. A. A. A. A. to 14' Brn med-cse sand ground water @ 14'? END OF BORING 14.5 FEET	SM CL CL CL SP	M M W	NR NR NR	None None None	<1.0	<.025	<.025	<.025	<.05
			-25 -										
			- <u>-</u> 26										
Therea	by certify	that th	e inform	nation on this form is true and correct	to the	e best of					I _INV\LESLIE		S\.XLT
Signat	ture /	las	nea	Chieles		Firm		AYRE	S AS	SOC	IATES		
[than \$	10 or no	r more	than \$5	hapters 144.147 and 162, Wis.Stats. 5,000 for each violation. Fined not less a day of continued violation is a separ	ss tha	n \$10 or r	nore tha	n \$100	or impri	soned	not less	than 30	Tess D days, or

VELL/DRILLHOLE/BOREHOLE ABANDO	ONN	иемт

!-91

State of Wisconsin WELL/DRILLHOLE/BC Department of Natural Resources Similar to Form 3300-5B All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see Instructions on back.

(1) GENERAL INFORMATION		(2)		CILITY NA			
Well/Drillhole/Borehole	County		Origi	nal Well Own	er (If Known)		
Location	Burnett						
				nt Well Owne			
<u>NW</u> 1/4 of <u>NW</u> 1/4 of Sec]	<u>7; t. 38 n; r. 17 🛛 w</u>			Robert An	derson		
(If Applicable)				t or Route	ah		
Gov't Lot	Grid Number			31 State Hi			
Grid Location			•	State, Zip Coo			
ft. N. S.	ft. E. W.			n, WI 548			
Civil Town Name				ity Well No. a	nd/ or Name (If Ap	plicable)	WI Unique Well No.
Daniels Street Address of Well			B-5	on for Abando	nment		
10545 State Highway 70				loratory Bo			
City, Village				of Abandonme			
Falun			10-3	095			
WELL/DRILLHOLE/BOREH	IOLE INFORMATION						
(3) Original Well/Drillhole/Borehole Const		(4)	Dept	1 to Water (Fe	et) 13.5		
(Date) 10-30-95			Pumr	& Piping Rei		3 🗌 No 🛛	N/A
()				(s) Removed?		3 🗌 No 🛛	
Monitoring Well	Construction Report Available?		Scree	n Removed?	Yes	3 🗌 No 🛛	N/A
Water Well	Yes 🗌 No			g Left in Plac	e? 🗌 Yes	3 🗌 No 🛛	N/A
			IfNo	, Explain			
Borehole			Week		F Delow Sueface?		No.
				-	F Below Surface? al Rise to Surface?	=	=
Drilled Driven (S	andpoint) Dug				After 24 Hours?	_	
Other (Specify)					ole Retopped?	_	
			D			f - 4! - 1	
Formation Type:		(5)	кеqu	irea Methoa o	f Placing Sealing N	laterial	
Unconsolidated Formation	Bedrock		$\boxtimes \circ$	Conductor Pip	e - Gravity	Conducto	r Pipe - Pumped
	0 · D' · () / 35		п.		Г		
Total Well Depth (fl.) <u>14.5</u> (From Groundsurface)	Casing Diameter (in.) 4.25			Dump Bailer		Other (Ex	(plain)
(,		(6)	Seali	ng Materials			oring wells and
			Π,	leat Cement G		monitorin	g well boreholes only
Casing Depth (ft.) 14.5			=		(Concrete) Grout		onite Pellets
	_			Concrete	(concrete) Grout		ular Bentonite
Was Well Annular Space Grouted?	Yes No Unknown		=	Clay - Sand Sh	irry		onite - Cement Grout
				Bentonite - San	•		
If Yes, To What Depth?	Feet		$\boxtimes \circ$	Chipped Bento	nite		
(7)		i			Number of		Mix Ratio or
Sealing Materia	il Used	-	n (Ft.)	To (Ft.)	🗌 Yards 🔀 Sacl	ks 🗌 Vol.	
3/8 inch Bentonite Chips		Sur	face	11.5	5.0		
		11.5	5	14.5	caved		
(8) Comments:							
Name of Person or Firm Doing Sealing	Work		(10)	FOR D	NR OR COUN	TY USE	ONLY
Midwest Engineering Services,			. ,	Received/Insp		District/C	
Signature of Person Doing Work	Date Signer			P			- ,
Theyen Herrien	10/21/95		Revie	wer/Inspector		Com	plying Work
	elephone Number				complying Work		
. ,	715) 720-0700		Follo	w-up Necessar	ту		
City, State, Zip Code							I
Chippewa Falls, WI 54729							

APPENDIX C

FIELD PROCEDURES

FIELD PROCEDURES

Test Pit Installation

A total of six test pits were installed on the site using a backhoe. Test pits TP-1A and TP-1B were installed in the original tank bed excavation, as shown in Figure 2. Soil samples were collected at 2.5-foot vertical intervals to a depth of 12 feet. Samples were obtained directly from the backhoe bucket using clean 25-mL syringes to transfer the soil to the sampling jars.

Samples for potential laboratory analysis were placed in laboratory prepared containers. Gasoline range organic (GRO), volatile organic compound (VOC), and lead analysis samples collected from the soil borings were placed on ice in a cooler immediately after collection and remained on ice until receipt at the laboratory. GRO and VOC samples submitted for laboratory analysis were preserved with 25 mL of methanol within 2 hours of collection. Soil collection methods were in accordance with requirements outlined in the *WDNR Leaking Underground Storage Tank Analytical Guidance*, April 1992.

Hollow Stem Auger (HSA) Boring Installation

Hollow stem auger soil borings were installed by Midwest Engineering Services (MES), Chippewa Falls, Wisconsin, in accordance with Wisconsin Administrative Code, Chapter 141. MES installed borings with a Diedrich D-50 drilling rig equipped with 4¼-inch hollow stem augers. In general, soil samples were collected at 2.5-foot vertical intervals from the surface to boring termination. Soil samples were obtained using a split spoon sampler (1-3/8-inch-diameter-x-2-feet-long) driven by a 140- or 300-pound hammer per ASTM D-1586. Clean augers were used in each boring. All augers were steam-cleaned prior to leaving the site. An Ayres Associates representative was present during the drilling process to locate boring locations, collect and screen soil samples, and classify soils. Soils information was logged on WDNR Soil Boring Log Forms 4400-122. Soil samples were retrieved from the split spoon using a clean wooden spatula; samples were collected from the middle of the split spoon along total length of sample to avoid collection of borehole blowback. The split spoon cleaning process involved three steps: a wash in Alconox soap, a tap water rinse, and a final rinse with deionized water. The cleaning solution and rinse water were changed regularly during sampling.

As mentioned previously, soil samples were collected at 2.5-foot sample intervals. At each sampling point, five groups of soil samples were collected: headspace screening, GRO, VOCs, total lead, and percent solid.

Samples for potential laboratory analysis were placed in laboratory-prepared containers. GRO, VOC, and lead analysis samples collected from the soil borings were placed on ice in a cooler immediately after collection and remained on ice until receipt at the laboratory. GRO and VOC samples submitted for laboratory analysis were preserved with 25 mL of methanol within 2 hours of collection. Soil collection methods were in accordance with requirements outlined in the WDNR Leaking Underground Storage Tank Analytical *Guidance*, April 1992.

After sampling, all holes are filled with 3/8-inch chipped bentonite and surfacing material is restored. Borehole abandonment details are presented on WDNR Form 3300-5B, which are in Appendix B.

Field Screening

Samples for headspace analysis were placed in clean 16-ounce Mason jars with a screw cap and lid. Jars were filled approximately one-half full. Soil samples were qualitatively screened for organic vapors using a Photovac TIP 1 Photo Ionization Detector (PID) equipped with a 10.6 eV lamp. Headspace screening was conducted to aid in determining which soil samples should be submitted for laboratory analysis. The accuracy of the PID is checked daily by calibrating the instrument prior to sampling to 100 parts per million (ppm) isobutylene gas according to the manufacturer's specifications.

After allowing the soil samples to equilibrate for the required length of time, total organic vapors in the Mason jars were screened by piercing the lid and then immediately inserting the PID probe. Meter responses were recorded as parts per million isobutylene equivalents. 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.

Water Sampling

After soil sampling was completed in boring B/W-1, a 2-inch diameter by 10-foot-long Schedule 40 PVC casing with a No. 10 factory slotted well screen was temporarily installed to a depth of 10 feet. Filter pack for the temporary monitoring well consisted of No. 30 red flint sand installed from the base of the boring (14.5-foot depth) to the top of the screen (ground surface). The well construction details for this temporary well is on Form 4400-113A in Appendix F of this report.

Temporary well B/W-1 was developed on the same day of installation. Well development is described on Form 4400-113B in Appendix F of this report. Ground water sampling occurred immediately after well development. The sample was obtained by lowering a disposable bailer into the temporary well using a Teflon-coated line. The sample was collected directly from the bailer into laboratory-provided sample containers.

Samples were collected for analysis of the following parameters:

• GRO and VOC samples: Filled 4-mL vial with cap and septum and preserved with 0.5 mL of dilute 1:1 hydrochloric acid.

We placed the samples on ice in a cooler; enclosed a completed WDNR chain-of-custody record, Form 4400-151; and shipped the cooler to the laboratory so it arrived within 72 hours of sample collection.

Following the ground water sampling, temporary well B/W-1 was abandoned as described previously. Borehole abandonment details are presented on WDNR Form 3300-5B in Appendix B.

Chain-of-Custody

A chain-of-custody log was initiated at the time of collection of each sample. Information contained on the log included project name and number, sampler, sample location and depth, sample number, date and time of collection, type of sample, number of containers, type of chemical analyses to be performed, and remarks pertaining to each sample. In addition, the date, time, and signature of each individual handling the samples is recorded on the log. Copies of the soil and ground water chain-of-custody documents are in Appendix D and E respectively.

Laboratory Analysis

į.

Initial soil samples were analyzed by Central Wisconsin Enviro-Lab (CWEL), Schofield, Wisconsin (Wisconsin DNR Laboratory Certification No. 737125510). The second round of soil and ground water samples was analyzed by Mid-State Associates (MSA), Baraboo, Wisconsin (Wisconsin DNR Laboratory Certification No. 157066030). Soil analytical reports are in Appendix D. Ground water analytical reports are in Appendix E. Analytical methods for each laboratory are listed below.

CWEL		
ANALYTE	SOIL	WATER
GRO	WDNR LUST Analytical Guidance PUBL-SW-140 93 REV	
VOCs	EPA Method 8260 using GC-MS	
Total Lead	EPA Method 7420	
MSA		
ANALYTE	SOIL	WATER
GRO	WDNR Modified GRO	WDNR Modified GRO
VOCs	EPA Method 8021	EPA Method 8021
Total Lead	EPA Method 7420	

APPENDIX D

SOIL ANALYTICAL RESULTS

TO: Owen Ayres & Associates, Inc.	Date: August 15, 1994
3433 Oakwood Hills Pkwy	
PO Box 1590	
Eau Claire, WI 54702–1590	
Phone: 715-834-3161	
Attn: Sue Vasey	
Wisconsin Certification No. 737125510	
PROJECT: Bob's Service	LAB BATCH ID: 9407047
PROJECT NUMBER: 10-0232.00	
METHODOLOGIES:	
GRO concentration was determined by the Wisconsin WDNR I	UST Analytical Guidance PUBL – SW – 140 93 REV.

Volatile organics were determined by modified EPA Method 8260 using GC-MS.

Total Lead

REMARKS:

Nearly all samples analyzed for VOC by method 8260 exhibited surrogate failures due to the heavy clay-like material. Most samples were analyzed in duplicate to verify the surrogate failure. Matrix spikes of the samples did result in good recoveries so the impact upon the data is not considered to be very great.

CENTRAL WISCONSIN ENVIRO LAB, INC.

· ·

Date: 814-94

David L. Schumacher Lab Director

6:\reports\9407047f

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.: Sample Matrix: Date Collected Project: Project #:			Date Received: Lab Batch ID: Lab Sample ID: Reviewed By:		7/27/94 9407047 005120	,
Parameter Number	Parameter	PQL	Concen– tration	Units	Com– ments	Date Analyzed
78920	Gasoline Range Organics (GRO)	6.1	23.6	mg/kg	None	8/04/94
	Total Lead Digestion Date		3.49	mg/kg	None	8/11/94 8/05/94

ND: Not Detected

J: Detected but below PQL. Estimated concentration

PQL: Practical Quantitation Limit GRO/DRO: Determined by Modified Wisconsin WDNR LUST Guidance. PVOC: Determined according to Modified EPA Method 8020. CONCENTRATION: Results on dry weight basis

.

GRO Comments:

Significant early eluting peaks before GRO window.
 Significant late eluting peaks after GRO window.
 Majority of GRO compounds in early portion of window.
 Majority of GRO compounds in later portion of window.

5. GRO window shows a raised baseline.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	$\underline{TP-1a} D = 5-7$	_ Date Received:	7/27/94
Sample Matrix:	Soil	_ Lab Batch ID:	9407047
Date Collected:	7/25/94	Lab Sample ID:	005120
Project:	Bob's Service	Date Analyzed:	8/07/94
Project #:	10-0232.00	Reviewed By:	DCS

	Detection	Sample			Detection	Sample	
Parameter	Limit	Conc.	Units	Parameter	Limit	Conc.	Units
Benzene	6.0	ND	µg/kg	1,2–Dichloropropane	6.0	ND	µg/kg
Bromobenzene	6.0	ND	µg/kg	1,3 – Dichloropropane	6.0	ND	µg/kg
Bromochloromethane	6.0	ND	µg/kg	2,2–Dichloropropane	6.0	ND	µg/kg
Bromodichloromethane	6.0	ND	µg/kg	1,1-Dichloropropene	6.0	ND	µg/kg
Bromoform	6.0	ND	µg/kg	cis-1,3-Dichloropropene	6.0	ND	µg/kg
n–Butylbenzene	6.0	193	µg/kg	trans-1,3-Dichloropropene	6.0	ND	μg/kg
sec-Butylbenzene	6.0	70.4	µg/kg	Ethylbenzene	6.0	ND	μg/kg
t-Butylbenzene	6.0	ND	µg/kg	Hexachlorobutadiene	6.0	ND	μg/kg
Carbon Tetrachloride	6.0	ND	μg/kg	Isopropylbenzene	6.0	6.9	μg/kg
Chlorobenzene	6.0	ND	μg/kg	p-Isopropyltoluene	6.0	133	μg/kg
Chloroethane	6.0	ND	μg/kg	Naphthalene	12.0	ND	μg/kg
Chloroform	6.0	ND	μg/kg	n–Propylbenzene	6.0	28.0	μg/kg
Chloromethane	6.0	ND	μg/kg	Styrene	6.0	ND	μg/kg
2-Chlorotoluene	6.0	ND	μg/kg	1,1,1,2–Tetrachloroethane	6.0	ND	μg/kg
4– Chlorotoluene	6.0	ND	μg/kg	1,1,2,2–Tetrachloroethane	6.0	ND	μg/kg
Dibromochloromethane	6.0	ND	μg/kg	Tetrachloroethene	6.0	ND	μg/kg
1,2-Dibromo-3-chloropropane	6.0	ND	μg/kg	Toluene	6.0	ND	μg/kg
1,2-Dibromoethane	6.0	ND	μg/kg	1,2,3-Trichlorobenzene	6.0	ND	μg/kg
Dibromomethane	6.0	ND	μg/kg	1,2,4–Trichlorobenzene	6.0	ND	μg/kg
1,2-Dichlorobenzene	6.0	ND	μg/kg	1,1,1–Trichloroethane	6.0	ND	μg/kg
1,3-Dichlorobenzene	6.0	ND	μg/kg	1,1,2–Trichloroethane	6.0	ND	μg/kg
1,4–Dichlorobenzene	6.0	ND	μg/kg	Trichloroethene	6.0	ND	μg/kg
Dichlorodifluoromethane	6.0	ND	μg/kg	Trichlorofluoromethane	6.0	ND	μg/kg
1,1–Dichloroethane	6.0	ND	μg/kg	1,2,3–Trichloropropane	6.0	ND	μg/kg
1,2-Dichloroethane	6.0	ND	μg/kg	1,2,4–Trimethylbenzene	12.0	79.7	μg/kg
1,1-Dichloroethene	6.0	ND	μg/kg	1,3,5–Trimethylbenzene	6.0	282	μg/kg
cis-1,2-Dichloroethene	6.0	ND	μg/kg	Vinyl Chloride	6.0	ND	μg/kg
trans-1,2-Dichloroethene	6.0	ND	μg/kg	m&p-Xylene	6.0	ND	μg/kg
Dichloromethane	6.0	ND	μg/kg	o-Xylene	6.0	7.4	μg/kg
				Diisopropyl Ether	6.0	ND	μg/kg
				MTBE	6.0	ND	μg/kg

- ND: Not Detected
 - B: Detected in method blank.
 - J: Detected but below detection limit. Estimated concentration Determined according to modified EPA GC-MS Method 8260.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.: Sample Matrix Date Collected Project: Project #:		- - -	Date Received: Lab Batch ID: Lab Sample ID: Reviewed By:		7/27/94 9407047 005121 ① 스与	
Parameter Number	Parameter	PQL	Concen- tration	Units	Com– ments	Date Analyzed
78920	Gasoline Range Organics (GRO)	5.8	ND	mg/kg	None	8/04/94
	Total Lead Digestion Date		3.22	mg/kg	None	8/11/94 8/05/94

ND: Not Detected

J: Detected but below PQL. Estimated concentration

PQL: Practical Quantitation Limit GRO/DRO: Determined by Modified Wisconsin WDNR LUST Guidance. PVOC: Determined according to Modified EPA Method 8020. CONCENTRATION: Results on dry weight basis

GRO Comments:

Significant early eluting peaks before GRO window.
 Significant late eluting peaks after GRO window.
 Majority of GRO compounds in early portion of window.
 Majority of GRO compounds in later portion of window.
 GRO window shows a raised baseline.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	<u>TP-1a</u> $D = 10-12$	Date Received:	7/27/94
Sample Matrix:	Soil	Lab Batch ID:	9407047
Date Collected:	. 7/25/94	Lab Sample ID:	005121
Project:	Bob's Service	Date Analyzed:	7/28/94
Project #:	10-0232.00	Reviewed By:	Nes

_	Detection	Sample			Detection	Sample	
Parameter	Limit	Conc.	Units	Parameter	Limit	Conc.	Units
Demonstra	1.0	NE					
Benzene	1.0	ND	μg/kg	1,2-Dichloropropane	1.0	ND	µg/kg
Bromobenzene	1.0	ND	µg/kg	1,3–Dichloropropane	1.0	ND	µg/kg
Bromochloromethane	1.0	ND	µg/kg	2,2–Dichloropropane	1.0	ND	µg/kg
Bromodichloromethane	1.0	ND	µg/kg	1,1-Dichloropropene	1.0	ND	μg/kg
Bromoform	1.0	ND	µg/kg	cis-1,3-Dichloropropene	1.0	ND	μg/kg
n-Butylbenzene	1.0	ND	µg/kg	trans-1,3-Dichloropropene	1.0	ND	μg/kg
sec-Butylbenzene	1.0	ND	µg/kg	Ethylbenzene	1.0	ND	μg/kg
t-Butylbenzene	1.0	ND	µg/kg	Hexachlorobutadiene	1.0	ND	μg/kg
Carbon Tetrachloride	1.0	ND	µg/kg	Isopropylbenzene	1.0	ND	μg/kg
Chlorobenzene	1.0	ND	µg/kg	p-Isopropyltoluene	1.0	ND	μg/kg
Chloroethane	1.0	ND	µg/kg	Naphthalene	2.0	ND	μg/kg
Chloroform	1.0	ND	μg/kg	n–Propylbenzene	1.0	ND	μg/kg
Chloromethane	1.0	ND	µg/kg	Styrene	1.0	ND	µg∕kg
2-Chlorotoluene	1.0	ND	μg/kg	1,1,1,2–Tetrachloroethane	1.0	ND	μg/kg
4– Chlorotoluene	1.0	ND	μg/kg	1,1,2,2–Tetrachloroethane	1.0	ND	μg/kg
Dibromochloromethane	1.0	ND	μg/kg	Tetrachloroethene	1.0	ND	μg/kg
1,2-Dibromo-3-chloropropane	1.0	ND	μg/kg	Toluene	1.0	ND	μg/kg
1,2-Dibromoethane	1.0	ND	μg/kg	1,2,3–Trichlorobenzene	1.0	ND	μg/kg
Dibromomethane	1.0	ND	μg/kg	1,2,4–Trichlorobenzene	1.0	ND	μg/kg
1,2-Dichlorobenzene	1.0	ND	μg/kg	1,1,1–Trichloroethane	1.0	ND	μg/kg
1,3-Dichlorobenzene	1.0	ND	μg/kg	1,1,2–Trichloroethane	1.0	ND	μg/kg
1,4–Dichlorobenzene	1.0	ND	μg/kg	Trichloroethene	1.0	ND	μg/kg
Dichlorodifluoromethane	1.0	ND	μg/kg	Trichlorofluoromethane	1.0	ND	μg/kg
1,1–Dichloroethane	1.0	ND	μg/kg	1,2,3–Trichloropropane	1.0	ND	μg/kg
1,2-Dichloroethane	1.0	ND	μg/kg	1,2,4 – Trimethylbenzene	2.0	ND	μg/kg μg/kg
1,1-Dichloroethene	1.0	ND	μg/kg	1,3,5 – Trimethylbenzene	1.0	ND	μg/kg
cis-1,2-Dichloroethene	1.0	ND	μg/kg	Vinyl Chloride	1.0	ND	μg/kg
trans-1,2-Dichloroethene	1.0	ND	μg/kg	m&p-Xylene	1.0	ND	μg/kg
Dichloromethane	1.0	ND	μg/kg	o-Xylene	1.0	ND	
			F'0'-0	Diisopropyl Ether	1.0	ND	µg/kg µg/kg
				MTBE	1.0	ND ND	µg/kg
					1.0	ND	µg/kg

- ND: Not Detected
 - B: Detected in method blank.
 - J: Detected but below detection limit. Estimated concentration Determined according to modified EPA GC-MS Method 8260.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	TP -1b D = $5-7$		Date Received:		7/27/94	
Sample Matrix	: Soil '		Lab Batch ID:		9407047	
Date Collected	1: 7/25/94		Lab Sample ID:		005122	
Project:	Bob's Service		Reviewed By:		Des	
Project #:	10-0232.00	-			~	
Parameter Number	Parameter	PQL	Concen- tration	Units	Com– ments	Date Analyzed
78920	Gasoline Range Organics (GRO)	6.0	10.2	mg/kg	None	8/04/94
	Total Lead Digestion Date		5.90	mg/kg	None	8/11/94 8/05/94
			5.90	mg/kg	None	

ND: Not Detected J: Detected but b

Detected but below PQL. Estimated concentration

- PQL: Practical Quantitation Limit
- GRO/DRO: Determined by Modified Wisconsin WDNR LUST Guidance. PVOC: Determined according to Modified EPA Method 8020. CONCENTRATION: Results on dry weight basis

GRO Comments:

Significant early eluting peaks before GRO window.
 Significant late eluting peaks after GRO window.
 Majority of GRO compounds in early portion of window.
 Majority of GRO compounds in later portion of window.

5. GRO window shows a raised baseline.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	<u>TP-1b</u> $D = 5-7$	Date Received:	7/27/94
Sample Matrix:	Soil	Lab Batch ID:	9407047
Date Collected:	7/25/94	Lab Sample ID:	005122
Project:	Bob's Service	Date Analyzed:	8/07/94
Project #:	10-0232.00	Reviewed By:	DCS

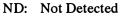
	Detection	Sample			Detection	Sample	
Parameter	Limit	Conc.	Units	Parameter	Limit	Conc.	Units
D		12.0		10 0.11		ND	
Benzene	6.6	13.8	μg/kg	1,2-Dichloropropane	6.6	ND	µg/kg
Bromobenzene	6.6	ND	µg/kg	1,3-Dichloropropane	6.6	ND	µg/kg
Bromochloromethane	6.6	ND	μg/kg	2,2-Dichloropropane	6.6	ND	µg/kg
Bromodichloromethane	6.6	ND	µg/kg	1,1-Dichloropropene	6.6	ND	µg/kg
Bromoform	6.6	ND	µg/kg	cis-1,3-Dichloropropene	6.6	ND	µg/kg
n-Butylbenzene	6.6	ND	μg/kg	trans-1,3-Dichloropropene	6.6	ND	µg/kg
sec-Butylbenzene	6.6	ND	µg/kg	Ethylbenzene	6.6	22.5	µg/kg
t-Butylbenzene	6.6	ND	µg/kg	Hexachlorobutadiene	6.6	ND	µg/kg
Carbon Tetrachloride	6.6	ND	µg/kg	Isopropylbenzene	6.6	ND	µg/kg
Chlorobenzene	6.6	ND	µg/kg	p-Isopropyltoluene	6.6	ND	µg/kg
Chloroethane	6.6	ND	µg/kg	Naphthalene	13.2	55.0	µg/kg
Chloroform	6.6	ND	µg/kg	n-Propylbenzene	6.6	10.8	µg/kg
Chloromethane	6.6	ND	µg/kg	Styrene	6.6	ND	µg/kg
2-Chlorotoluene	6.6	ND	µg/kg	1,1,1,2–Tetrachloroethane	6.6	ND	µg/kg
4-Chlorotoluene	6.6	ND	µg/kg	1,1,2,2–Tetrachloroethane	6.6	ND	µg/kg
Dibromochloromethane	6.6	ND	µg/kg	Tetrachloroethene	6.6	ND	µg/kg
1,2-Dibromo-3-chloropropane	6.6	ND	µg/kg	Toluene	6.6	45.5	µg/kg
1,2-Dibromoethane	6.6	ND	µg/kg	1,2,3-Trichlorobenzene	6.6	ND	µg/kg
Dibromomethane	6.6	ND	µg/kg	1,2,4–Trichlorobenzene	6.6	ND	µg/kg
1,2-Dichlorobenzene	6.6	ND	µg/kg	1,1,1–Trichloroethane	6.6	ND	μg/kg
1,3–Dichlorobenzene	6.6	ND	µg/kg	1,1,2–Trichloroethane	6.6	ND	µg/kg
1,4–Dichlorobenzene	6.6	ND	µg/kg	Trichloroethene	6.6	ND	μg/kg
Dichlorodifluoromethane	6.6	ND	µg/kg	Trichlorofluoromethane	6.6	ND	μg/kg
1,1-Dichloroethane	6.6	ND	µg/kg	1,2,3–Trichloropropane	6.6	ND	μg/kg
1,2–Dichloroethane	6.6	ND	μg/kg	1,2,4–Trimethylbenzene	13.2	156	μg/kg
1,1-Dichloroethene	6.6	ND	μg/kg	1,3,5-Trimethylbenzene	6.6	38.7	μg/kg
cis-1,2-Dichloroethene	6.6	ND	μg/kg	Vinyl Chloride	6.6	ND	μg/kg
trans-1,2-Dichloroethene	6.6	ND	μg/kg	m&p-Xylene	6.6	184	μg/kg
Dichloromethane	6.6	ND	μg/kg	o-Xylene	6.6	109	μg/kg
				Diisopropyl Ether	6.6	ND	μg/kg
				MTBE	6.6	ND	μg/kg
•							

- ND: Not Detected
- B: Detected in method blank.
 - J: Detected but below detection limit. Estimated concentration
 - Determined according to modified EPA GC-MS Method 8260.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.: Sample Matrix Date Collected Project:			Date Received: Lab Batch ID: Lab Sample ID: Reviewed By:		7/27/94 9407047 005123	
Project #: Parameter	10-0232.00		Concen-		Com-	Date
Number	Parameter	PQL	tration	Units		Analyzed
78920	Gasoline Range Organics (GRO)	6.9	ND	mg/kg	None	8/04/94
	Total Lead Digestion Date		14.6	mg/kg	None	8/11/94 8/05/94



J: Detected but below PQL. Estimated concentration

- PQL: Practical Quantitation Limit GRO/DRO: Determined by Modified Wisconsin WDNR LUST Guidance. PVOC: Determined according to Modified EPA Method 8020. CONCENTRATION: Results on dry weight basis

GRO Comments:

Significant early eluting peaks before GRO window.
 Significant late eluting peaks after GRO window.
 Majority of GRO compounds in early portion of window.
 Majority of GRO compounds in later portion of window.
 GRO window shows a raised baseline.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	<u>TP-1b</u> $D = 10-12$	Date Received:	7/27/94
Sample Matrix:	Soil	Lab Batch ID:	9407047
Date Collected:	7/25/94	Lab Sample ID:	005123
Project:	Bob's Service	Date Analyzed:	8/06/94
Project #:	10-0232.00	Reviewed By:	Des

	Detection	Sample			Detection	Sample	
Parameter	Limit	Conc.	Units	Parameter	Limit	Conc.	Units
Benzene	2.7	ND	µg/kg	1,2–Dichloropropane	2.7	ND	µg/kg
Bromobenzene	2.7	ND	µg/kg	1,3-Dichloropropane	2.7	ND	µg/kg
Bromochloromethane	2.7	ND	µg/kg	2,2–Dichloropropane	2.7	ND	µg/kg
Bromodichloromethane	2.7	ND	µg/kg	1,1–Dichloropropene	2.7	ND	µg/kg
Bromoform	2.7	ND	µg/kg	cis-1,3-Dichloropropene	2.7	ND	µg/kg
n–Butylbenzene	2.7	ND	µg/kg	trans-1,3-Dichloropropene	2.7	ND	µg/kg
sec-Butylbenzene	2.7	ND	µg/kg	Ethylbenzene	2.7	ND	µg/kg
t-Butylbenzene	2.7	ND	µg/kg	Hexachlorobutadiene	2.7	ND	µg/kg
Carbon Tetrachloride	2.7	ND	µg/kg	Isopropylbenzene	2.7	ND	µg/kg
Chlorobenzene	2.7	ND	µg/kg	p–Isopropyltoluene	2.7	ND	µg/kg
Chloroethane	2.7	ND	µg/kg	Naphthalene	5.4	ND	μg/kg
Chloroform	2.7	ND	µg/kg	n-Propylbenzene	2.7	ND	μg/kg
Chloromethane	2.7	ND	µg/kg	Styrene	2.7	ND	μg/kg
2-Chlorotoluene	2.7	ND	μg/kg	1,1,1,2–Tetrachloroethane	2.7	ND	μg/kg
4–Chlorotoluene	2.7	ND	μg/kg	1,1,2,2–Tetrachloroethane	2.7	ND	μg/kg
Dibromochloromethane	2.7	ND	μg/kg	Tetrachloroethene	2.7	ND	μg/kg
1,2-Dibromo-3-chloropropane	2.7	ND	μg/kg	Toluene	2.7	ND	μg/kg
1,2-Dibromoethane	2.7	ND	μg/kg	1,2,3–Trichlorobenzene	2.7	ND	μg/kg
Dibromomethane	2.7	ND	μg/kg	1,2,4–Trichlorobenzene	2.7	ND	μg/kg
1,2-Dichlorobenzene	2.7	ND	μg/kg	1,1,1–Trichloroethane	2.7	ND	μg/kg
1,3–Dichlorobenzene	2.7	ND	μg/kg	1,1,2–Trichloroethane	2.7	ND	μg/kg
1,4–Dichlorobenzene	2.7	ND	μg/kg	Trichloroethene	2.7	ND	μg/kg
Dichlorodifluoromethane	2.7	ND	μg/kg	Trichlorofluoromethane	2.7	ND	μg/kg
1,1–Dichloroethane	2.7	ND	μg/kg	1,2,3–Trichloropropane	2.7	ND	μg/kg
1,2-Dichloroethane	2.7	ND	μg/kg	1,2,4–Trimethylbenzene	5.4	ND	μg/kg
1,1-Dichloroethene	2.7	ND	μg/kg	1,3,5-Trimethylbenzene	2.7	ND	μg/kg
cis-1,2-Dichloroethene	2.7	ND	μg/kg	Vinyl Chloride	2.7	ND	μg/kg
trans-1,2-Dichloroethene	2.7	ND	μg/kg	m&p-Xylene	2.7	ND	μg/kg
Dichloromethane	2.7	ND	μg/kg	o-Xylene	2.7	ND	μg/kg
				Diisopropyl Ether	2.7	ND	μg/kg
				MTBE	2.7	ND	μg/kg

- ND: Not Detected
 - B: Detected in method blank.
 - J: Detected but below detection limit. Estimated concentration
 - Determined according to modified EPA GC-MS Method 8260.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

TP-2 $D = 5-7$		Date Received:		7/27/94	
Soil ·		Lab Batch ID:		9407047	
7/25/94		Lab Sample ID:		005124	
Bob's Service		Reviewed By:		DUS	
10-0232.00					
Parameter	PQL	Concen- tration	Units		Date Analyzed
Gasoline Range Organics (GRO)	6.4	ND	mg/kg	None	8/04/94
Fotal Lead Digestion Date		13.8	mg/kg	None	8/11/94 8/05/94
	Soil 7/25/94 Bob's Service 10–0232.00 Parameter Gasoline Range Organics (GRO) Yotal Lead	Soil . 7/25/94	Soil Image: Solit with the second	Soil . Soil . 7/25/94 Lab Batch ID: Bob's Service Lab Sample ID: 10-0232.00 Reviewed By: Parameter PQL Concen- tration Variance Organics (GRO) 6.4 ND mg/kg Yotal Lead 13.8 mg/kg	Soil Image: Constraint of the second sec



J: Detected but below PQL. Estimated concentration

- PQL: Practical Quantitation Limit
- GRO/DRO: Determined by Modified Wisconsin WDNR LUST Guidance. PVOC: Determined according to Modified EPA Method 8020. CONCENTRATION: Results on dry weight basis

GRO Comments:

.

- Significant early eluting peaks before GRO window.
 Significant late eluting peaks after GRO window.
 Majority of GRO compounds in early portion of window.
 Majority of GRO compounds in later portion of window.
 GRO window shows a raised baseline.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	<u>TP-2</u> D = 5 <u>-7</u>	Date Received:	7/27/94
Sample Matrix:	Soil	Lab Batch ID:	9407047
Date Collected:	· 7/25/94	Lab Sample ID:	005124
Project:	Bob's Service	Date Analyzed:	8/06/94
Project #:	10-0232.00	Reviewed By:	Des

	Detection	Sample			Detection	Sample	
Parameter	Limit	Conc.	Units	Parameter	Limit	Conc.	Units
Deserve	2.2	65		12 Disklammanan	2.2	ND	
Benzene	2.3	6.5	µg/kg	1,2-Dichloropropane	2.3	ND	µg/kg
Bromobenzene	2.3	ND	µg/kg	1,3-Dichloropropane	2.3	ND	µg/kg
Bromochloromethane	2.3	ND	µg/kg	2,2–Dichloropropane	2.3	ND	µg/kg
Bromodichloromethane	2.3	ND	µg/kg	1,1-Dichloropropene	2.3	ND	µg/kg
Bromoform	2.3	ND	µg/kg	cis-1,3-Dichloropropene	2.3	ND	µg/kg
n-Butylbenzene	2.3	ND	µg/kg	trans-1,3-Dichloropropene	2.3	ND	µg/kg
sec-Butylbenzene	2.3	ND	µg/kg	Ethylbenzene	2.3	ND	µg/kg
t-Butylbenzene	2.3	ND	μg/kg	Hexachlorobutadiene	2.3	ND	µg/kg
Carbon Tetrachloride	2.3	ND	µg/kg	Isopropylbenzene	2.3	ND	µg/kg
Chlorobenzene	2.3	ND	µg/kg	p-Isopropyltoluene	2.3	ND	µg/kg
Chloroethane	2.3	ND	μg/kg	Naphthalene	4.6	ND	µg/kg
Chloroform	2.3	ND	µg/kg	n-Propylbenzene	2.3	ND	µg/kg
Chloromethane	2.3	ND	µg/kg	Styrene	2.3	ND	µg/kg
2-Chlorotoluene	2.3	ND	µg/kg	1,1,1,2–Tetrachloroethane	2.3	ND	µg/kg
4–Chlorotoluene	2.3	ND	µg/kg	1,1,2,2–Tetrachloroethane	2.3	ND	µg/kg
Dibromochloromethane	2.3	ND	µg/kg	Tetrachloroethene	2.3	ND	μg/kg
1,2-Dibromo-3-chloropropane	2.3	ND	µg/kg	Toluene	2.3	ND	µg/kg
1,2-Dibromoethane	2.3	ND	µg/kg	1,2,3-Trichlorobenzene	2.3	ND	μg/kg
Dibromomethane	2.3	ND	µg/kg	1,2,4-Trichlorobenzene	2.3	ND	μg/kg
1,2–Dichlorobenzene	2.3	ND	µg/kg	1,1,1–Trichloroethane	2.3	ND	μg/kg
1,3-Dichlorobenzene	2.3	ND	μg/kg	1,1,2–Trichloroethane	2.3	ND	μg/kg
1,4–Dichlorobenzene	2.3	ND	μg/kg	Trichloroethene	2.3	ND	μg/kg
Dichlorodifluoromethane	2.3	ND	μg/kg	Trichlorofluoromethane	2.3	ND	μg/kg
1,1–Dichloroethane	2.3	ND	μg/kg	1,2,3–Trichloropropane	2.3	ND	µg/kg
1,2-Dichloroethane	2.3	ND	μg/kg	1,2,4-Trimethylbenzene	4.6	ND	μg/kg
1,1-Dichloroethene	2.3	ND	μg/kg	1,3,5 – Trimethylbenzene	2.3	ND	μg/kg
cis-1,2-Dichloroethene	2.3	ND	μg/kg	Vinyl Chloride	2.3	ND	μg/kg
trans-1,2-Dichloroethene	2.3	ND	μg/kg	m&p-Xylene	2.3	ND	μg/kg
Dichloromethane	2.3	ND	μg/kg	o-Xylene	2.3	2.8	μg/kg
			10-0	Diisopropyl Ether	2.3	ND	μg/kg
			•	MTBE	2.3	ND	μg/kg
							r-00

- ND: Not Detected
- B: Detected in method blank.
 - J: Detected but below detection limit. Estimated concentration Determined according to modified EPA GC-MS Method 8260.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.: Sample Matrix Date Collected Project: Project #:			Date Received: Lab Batch ID: Lab Sample ID: Reviewed By:		7/27/94 9407047 005125 DLS	
Parameter Number	Parameter	PQL	Concen- tration	Units	Com- ments	Date Analyzed
78920	Gasoline Range Organics (GRO)	6.8	ND	mg/kg	None	8/04/94
	Total Lead Digestion Date		16.1	mg/kg	None	8/11/94 8/05/94

ND: Not Detected

J: Detected but below PQL. Estimated concentration

- PQL: Practical Quantitation Limit
- GRO/DRO: Determined by Modified Wisconsin WDNR LUST Guidance. PVOC: Determined according to Modified EPA Method 8020. CONCENTRATION: Results on dry weight basis

GRO Comments:

- Significant early eluting peaks before GRO window.
 Significant late eluting peaks after GRO window.
 Majority of GRO compounds in early portion of window.
 Majority of GRO compounds in later portion of window.
- 5. GRO window shows a raised baseline.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	<u>TP-2</u> $D = 10 - 12$	Date Received:	7/27/94
Sample Matrix:	Soil	Lab Batch ID:	9407047
Date Collected:	7/25/94	Lab Sample ID:	005125
Project:	Bob's Service	Date Analyzed:	8/06/94
Project #:	10-0232.00	Reviewed By:	045

	Detection	Sample			Detection	Sample	
Parameter	Limit	Conc.	Units	Parameter	Limit	Conc.	Units
Benzene	2.6	ND	µg/kg	1,2–Dichloropropane	2.6	ND	µg/kg
Bromobenzene	2.6	ND	µg/kg	1,3-Dichloropropane	2.6	ND	µg/kg
Bromochloromethane	2.6	ND	µg/kg	2,2–Dichloropropane	2.6	ND	µg/kg
Bromodichloromethane	2.6	ND	µg/kg	1,1–Dichloropropene	2.6	ND	μg/kg
Bromoform	2.6	ND	µg/kg	cis-1,3-Dichloropropene	2.6	ND	μg/kg
n–Butylbenzene	2.6	ND	μg/kg	trans-1,3-Dichloropropene	2.6	ND	μg/kg
sec-Butylbenzene	2.6	ND	μg/kg	Ethylbenzene	2.6	ND	μg/kg
t-Butylbenzene	2.6	ND	μg/kg	Hexachlorobutadiene	2.6	ND	μg/kg
Carbon Tetrachloride	2.6	ND	μg/kg	Isopropylbenzene	2.6	ND	μg/kg
Chlorobenzene	2.6	ND	μg/kg	p-Isopropyltoluene	2.6	ND	μg/kg
Chloroethane	2.6	ND	μg/kg	Naphthalene	5.3	ND	μg/kg
Chloroform	2.6	ND	μg/kg	n–Propylbenzene	2.6	ND	μg/kg
Chloromethane	2.6	ND	μg/kg	Styrene	2.6	ND	μg/kg
2-Chlorotoluene	2.6	ND	μg/kg	1,1,1,2–Tetrachloroethane	2.6	ND	μg/kg
4-Chlorotoluene	2.6	ND	μg/kg	1,1,2,2–Tetrachloroethane	2.6	ND	μg/kg
Dibromochloromethane	2.6	ND	μg/kg	Tetrachloroethene	2.6	ND	μg/kg
1,2-Dibromo-3-chloropropane	2.6	ND	μg/kg	Toluene	2.6	ND	μg/kg
1,2-Dibromoethane	2.6	ND	μg/kg	1,2,3-Trichlorobenzene	2.6	ND	μg/kg
Dibromomethane	2.6	ND	μg/kg	1,2,4-Trichlorobenzene	2.6	ND	μg/kg
1,2-Dichlorobenzene	2.6	ND	μg/kg	1,1,1–Trichloroethane	2.6	ND	μg/kg
1,3-Dichlorobenzene	2.6	ND	μg/kg	1,1,2-Trichloroethane	2.6	ND	μg/kg
1,4-Dichlorobenzene	2.6	ND	μg/kg	Trichloroethene	2.6	ND	μg/kg
Dichlorodifluoromethane	2.6	ND	μg/kg	Trichlorofluoromethane	2.6	ND	µg/kg
1,1–Dichloroethane	2.6	ND	μg/kg	1,2,3–Trichloropropane	2.6	ND	μg/kg
1,2–Dichloroethane	2.6	ND	μg/kg	1,2,4-Trimethylbenzene	5.3	ND	μg/kg
1,1-Dichloroethene	2.6	ND	μg/kg	1,3,5-Trimethylbenzene	2.6	ND	μg/kg
cis-1,2-Dichloroethene	2.6	ND	μg/kg	Vinyl Chloride	2.6	ND	μg/kg
trans-1,2-Dichloroethene	2.6	ND	μg/kg	m&p-Xylene	2.6	ND	µg/kg
Dichloromethane	2.6	ND	μg/kg	o-Xylene	2.6	ND	μg/kg
				Diisopropyl Ether	2.6	ND	μg/kg
				MTBE	2.6	ND	μg/kg

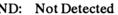
ND: Not Detected

- B: Detected in method blank.
- J: Detected but below detection limit. Estimated concentration Determined according to modified EPA GC-MS Method 8260.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.: <u>TP-3</u> $D = 7.5-9.5$		_	Date Received:	7/27/94		
Sample Matr	ix: Soil ·		Lab Batch ID:		9407047	
Date Collecte	ed: 7/25/94		Lab Sample ID:		005126	
Project:	Bob's Service	-	Reviewed By:		.065	
Project #:	10-0232.00	-				
Parameter	- .	501	Concen-		Com-	
Number	Parameter	PQL	tration	Units	ments	Analyzed
78920	Gasoline Range Organics (GRO)	6.4	52.8	mg/kg	None	8/04/94
	Total Lead		12.9	mg/kg	None	5/11/94
	Digestion Date					8/05/94



- ND:Not DetectedJ:Detected but below PQL. Estimated concentrationPQL:Practical Quantitation LimitGRO/DRO:Determined by Modified Wisconsin WDNR LUST Guidance.PVOC:Determined according to Modified EPA Method 8020.CONCENTRATION:Results on dry weight basis

GRO Comments:

Significant early eluting peaks before GRO window.
 Significant late eluting peaks after GRO window.
 Majority of GRO compounds in early portion of window.
 Majority of GRO compounds in later portion of window.

5. GRO window shows a raised baseline.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:		<u>TP-3</u> $D = 7.5 - 9.5$	Date Received:	7/27/94
Sample Matrix:		Soil	Lab Batch ID:	9407047
Date Collected:	•	7/25/94	Lab Sample ID:	005126
Project:		Bob's Service	Date Analyzed:	8/07/94
Project #:		10-0232.00	Reviewed By:	Dis

	Detection	Sample			Detection	Sample	
Parameter	Limit	Conc.	Units	Parameter	Limit	Conc.	Units
Benzene	6.5	58.5	µg/kg	1,2-Dichloropropane	6.5	ND	µg/kg
Bromobenzene	6.5	ND	μg/kg	1,3-Dichloropropane	6.5	ND	μg/kg
Bromochloromethane	6.5	ND	μg/kg	2,2-Dichloropropane	6.5	ND	μg/kg
Bromodichloromethane	6.5	ND	μg/kg	1,1-Dichloropropene	6.5	ND	μg/kg
Bromoform	6.5	ND	μg/kg	cis-1,3-Dichloropropene	6.5	ND	μg/kg
n–Butylbenzene	6.5	213	μg/kg	trans-1,3-Dichloropropene	6.5	ND	μg/kg
sec-Butylbenzene	6.5	86.8	μg/kg	Ethylbenzene	6.5	147	μg/kg
t-Butylbenzene	6.5	ND	μg/kg	Hexachlorobutadiene	6.5	ND	μg/kg
Carbon Tetrachloride	6.5	ND	μg/kg	Isopropylbenzene	6.5	130	μg/kg
Chlorobenzene	6.5	ND	μg/kg	p-Isopropyltoluene	6.5	ND	μg/kg
Chloroethane	6.5	ND	µg/kg	Naphthalene	13.0	14.7	μg/kg
Chloroform	6.5	ND	µg/kg	n–Propylbenzene	6.5	306	μg/kg
Chloromethane	6.5	ND	µg/kg	Styrene	6.5	ND	μg/kg
2-Chlorotoluene	6.5	ND	μg/kg	1,1,1,2-Tetrachloroethane	6.5	ND	μg/kg
4-Chlorotoluene	6.5	ND	µg/kg	1,1,2,2–Tetrachloroethane	6.5	ND	μg/kg
Dibromochloromethane	6.5	ND	μg/kg	Tetrachloroethene	6.5	ND	μg/kg
1,2-Dibromo-3-chloropropane	6.5	ND	μg/kg	Toluene	6.5	ND	μg/kg
1,2–Dibromoethane	6.5	ND	μg/kg	1,2,3-Trichlorobenzene	6.5	ND	μg/kg
Dibromomethane	6.5	ND	μg/kg	1,2,4–Trichlorobenzene	6.5	ND	μg/kg
1,2-Dichlorobenzene	6.5	ND	μg/kg	1,1,1–Trichloroethane	6.5	ND	μg/kg
1,3-Dichlorobenzene	6.5	ND	μg/kg	1,1,2–Trichloroethane	6.5	ND	μg/kg
1,4–Dichlorobenzene	6.5	ND	µg/kg	Trichloroethene	6.5	ND	µg/kg
Dichlorodifluoromethane	6.5	ND	µg/kg	Trichlorofluoromethane	6.5	ND	µg/kg
1,1–Dichloroethane	6.5	ND	µg/kg	1,2,3–Trichloropropane	6.5	ND	μg/kg
1,2-Dichloroethane	6.5	ND	µg/kg	1,2,4–Trimethylbenzene	13.0	ND	μg/kg
1,1–Dichloroethene	6.5	ND	µg/kg	1,3,5-Trimethylbenzene	6.5	8.3	µg/kg
cis-1,2-Dichloroethene	6.5	ND	µg/kg	Vinyl Chloride	6.5	ND	μg/kg
trans-1,2-Dichloroethene	6.5	ND	μg/kg	m&p-Xylene	6.5	ND	μg/kg
Dichloromethane	6.5	ND	μg/kg	o-Xylene	6.5	ND	μg/kg
*			-	Diisopropyl Ether	6.5	ND	µg/kg
				MTBE	6.5	ND	μg/kg

- ND: Not Detected
 - B: Detected in method blank.
 - J: Detected but below detection limit. Estimated concentration Determined according to modified EPA GC-MS Method 8260.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	TP-3 $D = 10 - 12$		Date Received:		7/27/94	
Sample Matrix:	Soil ·		Lab Batch ID:		9407047	
Date Collected	: 7/25/94		Lab Sample ID:		005127	
Project:	Bob's Service		Reviewed By:		DCS	
Project #:	10-0232.00	-				
Parameter			Concen-		Com-	Date
Number	Parameter	PQL	tration	Units	ments	Analyzed
78920	Gasoline Range Organics (GRO)	7.1	ND	mg/kg	None	8/04/94
,	Total Lead		14.8	mg/kg	None	8/11/94
	Digestion Date					8/05/94

- ND: Not Detected
 - J: Detected but below PQL. Estimated concentration
- PQL: Practical Quantitation Limit GRO/DRO: Determined by Modified Wisconsin WDNR LUST Guidance. PVOC: Determined according to Modified EPA Method 8020. CONCENTRATION: Results on dry weight basis

GRO Comments:

- Significant early eluting peaks before GRO window.
 Significant late eluting peaks after GRO window.
 Majority of GRO compounds in early portion of window.
 Majority of GRO compounds in later portion of window.
- 5. GRO window shows a raised baseline.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	<u>TP-3</u> $D = 10-12$	Date Received:	7/27/94
Sample Matrix:	Soil	Lab Batch ID:	9407047
Date Collected:	. 7/25/94	Lab Sample ID:	005127
Project:	Bob's Service	Date Analyzed:	8/06/94
Project #:	10-0232.00	Reviewed By:	DCS

	Detection	Sample			Detection	Sample	
Parameter	Limit	Conc.	Units	Parameter	Limit	Conc.	Units
Devenue	20	ND		12 Disklamanana	20	ND	4
Benzene	2.8	ND	µg/kg	1,2-Dichloropropane	2.8	ND	µg/kg
Bromobenzene	2.8	ND	µg/kg	1,3–Dichloropropane	2.8	ND	µg/kg
Bromochloromethane	2.8	ND	µg/kg	2,2-Dichloropropane	2.8	ND	µg/kg
Bromodichloromethane	2.8	ND	µg/kg	1,1–Dichloropropene	2.8	ND	µg/kg
Bromoform	2.8	ND	µg/kg	cis-1,3-Dichloropropene	2.8	ND	µg/kg
n-Butylbenzene	2.8	ND	µg/kg	trans-1,3-Dichloropropene	2.8	ND	µg/kg
sec-Butylbenzene	2.8	ND	μg/kg	Ethylbenzene	2.8	ND	µg/kg
t-Butylbenzene	2.8	ND	µg/kg	Hexachlorobutadiene	2.8	ND	µg/kg
Carbon Tetrachloride	2.8	ND	µg/kg	Isopropylbenzene	2.8	ND	−µg/kg
Chlorobenzene	2.8	ND	µg/kg	p–Isopropyltoluene	2.8	ND	µg/kg
Chloroethane	2.8	ND	µg/kg	Naphthalene	5.6	ND	µg/kg
Chloroform	2.8	ND	µg/kg	n–Propylbenzene	2.8	ND	µg/kg
Chloromethane	2.8	ND	µg/kg	Styrene	2.8	ND	µg/kg
2–Chlorotoluene	2.8	ND	µg/kg	1,1,1,2–Tetrachloroethane	2.8	ND	µg/kg
4-Chlorotoluene	2.8	ND	µg/kg	1,1,2,2–Tetrachloroethane	2.8	ND	μg/kg
Dibromochloromethane	2.8	ND	µg/kg	Tetrachloroethene	2.8	ND	μg/kg
1,2-Dibromo-3-chloropropane	2.8	ND	µg/kg	Toluene	2.8	ND	μg/kg
1,2-Dibromoethane	2.8	ND	μg/kg	1,2,3-Trichlorobenzene	2.8	ND	μg/kg
Dibromomethane	2.8	ND	μg/kg	1,2,4–Trichlorobenzene	2.8	ND	μg/kg
1,2-Dichlorobenzene	2.8	ND	μg/kg	1,1,1–Trichloroethane	2.8	ND	μg/kg
1,3-Dichlorobenzene	2.8	ND	μg/kg	1,1,2–Trichloroethane	2.8	ND	μg/kg
1,4–Dichlorobenzene	2.8	ND	μg/kg	Trichloroethene	2.8	ND	μg/kg
Dichlorodifluoromethane	2.8	ND	μg/kg	Trichlorofluoromethane	2.8	ND	μg/kg
1,1–Dichloroethane	2.8	ND	μg/kg	1,2,3–Trichloropropane	2.8	ND	μg/kg
1,2-Dichloroethane	2.8	ND	μg/kg	1,2,4-Trimethylbenzene	5.6	ND	μg/kg
1,1-Dichloroethene	2.8	ND	μg/kg	1,3,5 – Trimethylbenzene	2.8	ND	μg/kg
cis-1,2-Dichloroethene	2.8	ND	μg/kg	Vinyl Chloride	2.8	ND	μg/kg
trans-1,2-Dichloroethene	2.8	ND	μg/kg	m&p-Xylene	2.8	ND	μg/kg
Dichloromethane	2.8	ND	μg/kg	o-Xylene	2.8	ND	μg/kg
			··· 00	Diisopropyl Ether	2.8	ND	μg/kg
				MTBE	2.8	ND	μg/kg
							r~6/~~6

- ND: Not Detected
 - B: Detected in method blank.
 - J: Detected but below detection limit. Estimated concentration Determined according to modified EPA GC-MS Method 8260.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.: Sample Matrix Date Collected Project: Project #:			Date Received: Lab Batch ID: Lab Sample ID: Reviewed By:		7/27/94 9407047 005128 	
Parameter Number	Parameter	PQL	Concen- tration	Units	Com– ments	Date Analyzed
78920	Gasoline Range Organics (GRO)	7.4	ND	mg/kg	None	8/04/94
	Total Lead Digestion Date		15.6	mg/kg	None	8/11/94 8/05/94



J: Detected but below PQL. Estimated concentration

- PQL: Practical Quantitation Limit
- GRO/DRO: Determined by Modified Wisconsin WDNR LUST Guidance. PVOC: Determined according to Modified EPA Method 8020. CONCENTRATION: Results on dry weight basis

GRO Comments:

- Significant early eluting peaks before GRO window.
 Significant late eluting peaks after GRO window.
 Majority of GRO compounds in early portion of window.
 Majority of GRO compounds in later portion of window.
- 5. GRO window shows a raised baseline.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	<u>TP-4</u> $D = 5-7$	Date Received:	7/27/94
Sample Matrix:	Soil	Lab Batch ID:	9407047
Date Collected:	7/25/94	Lab Sample ID:	005128
Project:	Bob's Service	Date Analyzed:	8/06/94
Project #:	10-0232.00	Reviewed By:	04

	Detection	Sample			Detection	Sample	
Parameter	Limit	Conc.	Units	Parameter	Limit	Conc.	Units
Benzene	2.8	ND	µg/kg	1,2–Dichloropropane	2.8	ND	µg/kg
Bromobenzene	2.8	ND	µg/kg	1,3–Dichloropropane	2.8	ND	µg/kg
Bromochloromethane	2.8	ND	µg/kg	2,2-Dichloropropane	2.8	ND	µg/kg
Bromodichloromethane	2.8	ND	µg/kg	1,1–Dichloropropene	2.8	ND	µg/kg
Bromoform	2.8	ND	µg/kg	cis-1,3-Dichloropropene	2.8	ND	µg/kg
n-Butylbenzene	2.8	ND	µg/kg	trans-1,3-Dichloropropene	2.8	ND	µg/kg
sec-Butylbenzene	2.8	ND	µg/kg	Ethylbenzene	2.8	ND	µg/kg
t-Butylbenzene	2.8	ND	µg/kg	Hexachlorobutadiene	2.8	ND	µg/kg
Carbon Tetrachloride	2.8	ND	µg/kg	Isopropylbenzene	2.8	ND	µg/kg
Chlorobenzene	2.8	ND	µg/kg	p–Isopropyltoluene	2.8	ND	μg/kg
Chloroethane	2.8	ND	µg/kg	Naphthalene	5.7	ND	μg/kg
Chloroform	2.8	ND	µg/kg	n–Propylbenzene	2.8	ND	μg/kg
Chloromethane	2.8	ND	µg/kg	Styrene	2.8	ND	μg/kg
2– Chlorotoluene	2.8	ND	μg/kg	1, 1, 1, 2–Tetrachloroethane	2.8	ND	μg/kg
4-Chlorotoluene	2.8	ND	μg/kg	1,1,2,2–Tetrachloroethane	2.8	ND	μg/kg
Dibromochloromethane	2.8	ND	μg/kg	Tetrachloroethene	2.8	ND	μg/kg
1,2-Dibromo-3-chloropropane	2.8	ND	μg/kg	Toluene	2.8	ND	μg/kg
1,2-Dibromoethane	2.8	ND	μg/kg	1,2,3-Trichlorobenzene	2.8	ND	μg/kg
Dibromomethane	2.8	ND	μg/kg	1,2,4–Trichlorobenzene	2.8	ND	μg/kg
1,2–Dichlorobenzene	2.8	ND	µg/kg	1,1,1–Trichloroethane	2.8	ND	μg/kg
1,3-Dichlorobenzene	2.8	ND	μg/kg	1,1,2–Trichloroethane	2.8	ND	μg/kg
1,4–Dichlorobenzene	2.8	ND	μg/kg	Trichloroethene	2.8	ND	μg/kg
Dichlorodifluoromethane	2.8	ND	μg/kg	Trichlorofluoromethane	2.8	ND	μg/kg
1,1–Dichloroethane	2.8	ND	μg/kg	1,2,3–Trichloropropane	2.8	ND	μg/kg
1,2–Dichloroethane	2.8	ND	μg/kg	1,2,4-Trimethylbenzene	5.7	ND	μg/kg
1,1–Dichloroethene	2.8	ND	μg/kg	1,3,5-Trimethylbenzene	2.8	ND	μg/kg
cis-1,2-Dichloroethene	2.8	ND	μg/kg	Vinyl Chloride	2.8	ND	μg/kg
trans-1,2-Dichloroethene	2.8	ND	μg/kg	m&p-Xylene	2.8	ND	μg/kg
Dichloromethane	2.8	ND	μg/kg	o-Xylene	2.8	ND	μg/kg
			. = =	Diisopropyl Ether	2.8	ND	μg/kg
				MTBE	2.8	ND	μg/kg

- ND: Not Detected
- B: Detected in method blank.
 - J: Detected but below detection limit. Estimated concentration Determined according to modified EPA GC-MS Method 8260.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

.

Sample I.D.:	TP-4 $D = 10 - 12$		Date Received:	7/27/94		
Sample Matrix	: Soil '	-	Lab Batch ID:		9407047	
Date Collected	1: 7/25/94	•	Lab Sample ID:		005129	
Project:	Bob's Service		Reviewed By:		Des	
Project #:	10-0232.00	-	-			
Parameter			Concen-		Com-	
Number	Parameter	PQL	tration	Units	ments	Analyzed
78920	Gasoline Range Organics (GRO)	7.6	ND	mg/kg	None	8/05/94
	Total Lead		15.0	mg/kg	None	8/11/94
	Digestion Date					8/05/94

ND: Not Detected

J: Detected but below PQL. Estimated concentration

PQL: Practical Quantitation Limit GRO/DRO: Determined by Modified Wisconsin WDNR LUST Guidance. PVOC: Determined according to Modified EPA Method 8020. CONCENTRATION: Results on dry weight basis

GRO Comments:

.

Significant early eluting peaks before GRO window.
 Significant late eluting peaks after GRO window.
 Majority of GRO compounds in early portion of window.
 Majority of GRO compounds in later portion of window.
 GRO window shows a raised baseline.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	TP-4 $D = 10 - 12$	Date Received:	7/27/94
Sample Matrix:	Soil	Lab Batch ID:	9407047
Date Collected:	7/25/94	Lab Sample ID:	005129
Project:	Bob's Service	Date Analyzed:	8/06/94
Project #:	10-0232.00	Reviewed By:	DUS

ParameterLimitConc.UnitsParameterLimitConc.UnitsBenzene2.8NDμg/kg1,2-Dichloropropane2.8NDμg/kgBromobenzene2.8NDμg/kg1,3-Dichloropropane2.8NDμg/kg
bromonenzene Z.O. IND $\frac{10}{10}$ (ky 1.5 – Diculoionane Z.O. IND $\frac{10}{10}$ (ky
sec-Butylbenzene 2.8 ND $\mu g/kg$ Ethylbenzene 2.8 ND $\mu g/kg$
t-Butylbenzene 2.8 ND $\mu g/kg$ Hexachlorobutadiene 2.8 ND $\mu g/kg$
Carbon Tetrachloride 2.8 ND $\mu g/kg$ Isopropylbenzene 2.8 ND $\mu g/kg$
Chlorobenzene2.8ND $\mu g/kg$ p-Isopropyltoluene2.8ND $\mu g/kg$ Chloroethane2.8ND $\mu g/kg$ Naphthalene5.6ND $\mu g/kg$
Chloroform 2.8 ND $\mu g/kg$ n-Propylbenzene 2.8 ND $\mu g/kg$
Chloromethane 2.8 ND μ g/kg Styrene 2.8 ND μ g/kg
2-Chlorotoluene 2.8 ND $\mu g/kg$ 1,1,1,2-Tetrachloroethane 2.8 ND $\mu g/kg$
4-Chlorotoluene 2.8 ND $\mu g/kg$ 1,1,2,2-Tetrachloroethane 2.8 ND $\mu g/kg$
Dibromochloromethane 2.8 ND $\mu g/kg$ Tetrachloroethene 2.8 ND $\mu g/kg$
1,2-Dibromo-3-chloropropane 2.8 ND $\mu g/kg$ Toluene 2.8 ND $\mu g/kg$
1,2-Dibromoethane 2.8 ND $\mu g/kg$ 1,2,3-Trichlorobenzene 2.8 ND $\mu g/kg$
Dibromomethane 2.8 ND $\mu g/kg$ 1,2,4-Trichlorobenzene 2.8 ND $\mu g/kg$
1,2-Dichlorobenzene 2.8 ND $\mu g/kg$ 1,1,1-Trichloroethane 2.8 ND $\mu g/kg$
1,3-Dichlorobenzene 2.8 ND μ g/kg 1,1,2-Trichloroethane 2.8 ND μ g/kg
1,4-Dichlorobenzene 2.8 ND μ g/kg Trichloroethene 2.8 ND μ g/kg
Dichlorodifluoromethane 2.8 ND $\mu g/kg$ Trichlorofluoromethane 2.8 ND $\mu g/kg$
1,1-Dichloroethane 2.8 ND μ g/kg 1,2,3-Trichloropropane 2.8 ND μ g/kg
1,2-Dichloroethane 2.8 ND μ g/kg 1,2,4-Trimethylbenzene 5.6 ND μ g/kg
1,1-Dichloroethene 2.8 ND $\mu g/kg$ 1,3,5-Trimethylbenzene 2.8 ND $\mu g/kg$
cis-1,2-Dichloroethene 2.8 ND μ g/kg Vinyl Chloride 2.8 ND μ g/kg
trans-1,2-Dichloroethene 2.8 ND μ g/kg m&p-Xylene 2.8 ND μ g/kg
Dichloromethane 2.8 3.3 μ g/kg o-Xylene 2.8 ND μ g/kg
Diisopropyl Ether 2.8 ND μ g/kg
MTBE 2.8 ND $\mu g/kg$

- ND: Not Detected
- B: Detected in method blank.
- J: Detected but below detection limit. Estimated concentration Determined according to modified EPA GC-MS Method 8260.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.: $TP-5$ $D = 2.5-4.5$ Sample Matrix:Soil			Date Received:		7/27/94	
			Lab Batch ID:		9407047	
Date Collected	1: 7/25/94		Lab Sample ID:		005130	
Project:	Bob's Service		Reviewed By:		DUS	
Project #:	10-0232.00					
Parameter			Concen-		Com–	
Number	Parameter	PQL	tration	Units	ments	Analyzed
78920	Gasoline Range Organics (GRO)	5.8	ND	mg/kg	None	8/05/94
	TotalLead		4.45	mg/kg	None	8/11/94
	Digestion Date					8/05/94

- ND: Not Detected J: Detected but below PQL. Estimated concentration
- PQL: Practical Quantitation Limit
- GRO/DRO: Determined by Modified Wisconsin WDNR LUST Guidance. PVOC: Determined according to Modified EPA Method 8020. CONCENTRATION: Results on dry weight basis

GRO Comments:

- Significant early eluting peaks before GRO window.
 Significant late eluting peaks after GRO window.
 Majority of GRO compounds in early portion of window.
 Majority of GRO compounds in later portion of window.
 GRO window shows a raised baseline.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	TP-5 $D = 2.5 - 4.5$	Date Received:	7/27/94
Sample Matrix:	Soil	Lab Batch ID:	9407047
Date Collected:	. 7/25/94	Lab Sample ID:	005130
Project:	Bob's Service	Date Analyzed:	8/06/94
Project #:	10-0232.00	Reviewed By:	Des

	Detection	Sample			Detection	Sample	
Parameter	Limit	Conc.	Units	Parameter	Limit	Conc.	Units
2		NE	-				
Benzene	2.2	ND	µg/kg	1,2-Dichloropropane	2.2	ND	µg/kg
Bromobenzene	2.2	ND	µg/kg	1,3-Dichloropropane	2.2	ND	µg/kg
Bromochloromethane	2.2	ND	µg/kg	2,2–Dichloropropane	2.2	ND	µg/kg
Bromodichloromethane	2.2	ND	µg/kg	1,1-Dichloropropene	2.2	ND	µg/kg
Bromoform	2.2	ND	µg/kg	cis-1,3-Dichloropropene	2.2	ND	µg/kg
n–Butylbenzene	2.2	ND	µg/kg	trans-1,3-Dichloropropene	2.2	ND	µg/kg
sec-Butylbenzene	2.2	ND	µg/kg	Ethylbenzene	2.2	ND	μg/kg
t–Butylbenzene	2.2	ND	µg/kg	Hexachlorobutadiene	2.2	ND	μg/kg
Carbon Tetrachloride	2.2	ND	µg/kg	Isopropylbenzene	2.2	ND	μg/kg
Chlorobenzene	2.2	ND	µg/kg	p–Isopropyltoluene	2.2	ND	μg/kg
Chloroethane	2.2	ND	µg/kg	Naphthalene	4.4	ND	μg/kg
Chloroform	2.2	ND	µg/kg	n-Propylbenzene	2.2	ND	μg/kg
Chloromethane	2.2	ND	µg/kg	Styrene	2.2	ND	μg/kg
2-Chlorotoluene	2.2	ND	µg/kg	1,1,1,2–Tetrachloroethane	2.2	ND	μg/kg
4–Chlorotoluene	2.2	ND	µg/kg	1,1,2,2–Tetrachloroethane	2.2	ND	μg/kg
Dibromochloromethane	2.2	ND	µg/kg	Tetrachloroethene	2.2	ND	μg/kg
1,2-Dibromo-3-chloropropane	2.2	ND	µg/kg	Toluene	2.2	ND	μg/kg
1,2–Dibromoethane	2.2	ND	μg/kg	1,2,3–Trichlorobenzene	2.2	ND	μg/kg
Dibromomethane	2.2	ND	μg/kg	1,2,4–Trichlorobenzene	2.2	ND	μg/kg
1,2-Dichlorobenzene	2.2	ND	μg/kg	1,1,1–Trichloroethane	2.2	ND	μg/kg
1,3-Dichlorobenzene	2.2	ND	μg/kg	1,1,2–Trichloroethane	2.2	ND	μg/kg
1,4–Dichlorobenzene	2.2	ND	μg/kg	Trichloroethene	2.2	ND	μg/kg
Dichlorodifluoromethane	2.2	ND	μg/kg	Trichlorofluoromethane	2.2	ND	μg/kg
1,1–Dichloroethane	2.2	ND	μg/kg	1,2,3–Trichloropropane	2.2	ND	μg/kg
1,2–Dichloroethane	2.2	ND	μg/kg	1,2,4–Trimethylbenzene	4.4	ND	μg/kg
1,1–Dichloroethene	2.2	ND	μg/kg	1,3,5-Trimethylbenzene	2.2	ND	μg/kg
cis-1,2-Dichloroethene	2.2	ND	μg/kg	Vinyl Chloride	2.2	ND	μg/kg
trans-1,2-Dichloroethene	2.2	ND	μg/kg	m&p-Xylene	2.2	ND	μg/kg
Dichloromethane	2.2	ND	μg/kg	o-Xylene	2.2	ND	μg/kg
				Diisopropyl Ether	2.2	ND	μg/kg
				MTBE	2.2	ND	μg/kg
							0.0

- ND: Not Detected
 - B: Detected in method blank.
 - J: Detected but below detection limit. Estimated concentration
 - Determined according to modified EPA GC-MS Method 8260.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	Sample I.D.: $TP-5$ $D = 10-12$ Sample Matrix:Soil		Date Received:		7/27/94	
Sample Matrix			Lab Batch ID:		9407047	
Date Collected	1: 7/25/94		Lab Sample ID:		005131	
Project:	Bob's Service		Reviewed By:		DCS	
Project #:	10-0232.00					
Parameter	Descention		Concen-	1 1 14	Com-	
Number	Parameter	PQL	tration	Units	ments	Analyzed
78920	Gasoline Range Organics (GRO)	6.9	ND	mg/kg	None	8/05/94
	Total Lead		13.4	mg/kg	None	8/11/94
	Digestion Date					8/05/94

ND: Not Detec	ted
---------------	-----

J: Detected but below PQL. Estimated concentration

- PQL: Practical Quantitation Limit GRO/DRO: Determined by Modified Wisconsin WDNR LUST Guidance. PVOC: Determined according to Modified EPA Method 8020. CONCENTRATION: Results on dry weight basis

GRO Comments:

Significant early eluting peaks before GRO window.
 Significant late eluting peaks after GRO window.
 Majority of GRO compounds in early portion of window.
 Majority of GRO compounds in later portion of window.
 GRO window shows a raised baseline.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	TP-5 D = 10-12	Date Received:	7/27/94
Sample Matrix:	Soil	Lab Batch ID:	9407047
Date Collected:	7/25/94	Lab Sample ID:	005131
Project:	Bob's Service	Date Analyzed:	8/07/94
Project #:	10-0232.00	Reviewed By:	NCS

	Detection	Sample			Detection	Sample	
Parameter	Limit	Conc.	Units	Parameter	Limit	Conc.	Units
_	- -	ND		10 0:11	. .	ND	_
Benzene	2.7	ND	µg/kg	1,2-Dichloropropane	2.7	ND	µg/kg
Bromobenzene	2.7	ND	µg/kg	1,3-Dichloropropane	2.7	ND	µg/kg
Bromochloromethane	2.7	ND	µg/kg	2,2–Dichloropropane	2.7	ND	µg/kg
Bromodichloromethane	2.7	ND	µg/kg	1,1-Dichloropropene	2.7	ND	µg/kg
Bromoform	2.7	ND	µg/kg	cis-1,3-Dichloropropene	2.7	ND	µg/kg
n–Butylbenzene	2.7	ND	µg/kg	trans-1,3-Dichloropropene	2.7	ND	µg/kg
sec-Butylbenzene	2.7	ND	µg/kg	Ethylbenzene	2.7	ND	µg/kg
t-Butylbenzene	2.7	ND	µg/kg	Hexachlorobutadiene	2.7	ND	µg/kg
Carbon Tetrachloride	2.7	ND	µg/kg	Isopropylbenzene	2.7	ND	µg/kg
Chlorobenzene	2.7	ND	µg/kg	p–Isopropyltoluene	2.7	ND	µg/kg
Chloroethane	2.7	ND	µg/kg	Naphthalene	5.4	ND	µg/kg
Chloroform	2.7	ND	μg/kg	n–Propylbenzene	2.7	ND	µg/kg
Chloromethane	2.7	ND	µg/kg	Styrene	2.7	ND	µg/kg
2-Chlorotoluene	2.7	ND	µg/kg	1,1,1,2–Tetrachloroethane	2.7	ND	µg/kg
4-Chlorotoluene	2.7	ND	µg/kg	1,1,2,2–Tetrachloroethane	2.7	ND	μg/kg
Dibromochloromethane	2.7	ND	µg/kg	Tetrachloroethene	2.7	ND	µg/kg
1,2-Dibromo-3-chloropropane	2.7	ND	µg/kg	Toluene	2.7	ND	µg/kg
1,2–Dibromoethane	2.7	ND	µg/kg	1,2,3-Trichlorobenzene	2.7	ND	µg/kg
Dibromomethane	2.7	ND	μg/kg	1,2,4–Trichlorobenzene	2.7	ND	µg/kg
1,2–Dichlorobenzene	2.7	ND	μg/kg	1,1,1–Trichloroethane	2.7	ND	μg/kg
1,3 – Dichlorobenzene	2.7	ND	μg/kg	1,1,2–Trichloroethane	2.7	ND	μg/kg
1,4–Dichlorobenzene	2.7	ND	μg/kg	Trichloroethene	2.7	ND	μg/kg
Dichlorodifluoromethane	2.7	ND	μg/kg	Trichlorofluoromethane	2.7	ND	μg/kg
1,1–Dichloroethane	2.7	ND	μg/kg	1,2,3–Trichloropropane	2.7	ND	μg/kg
1,2-Dichloroethane	2.7	ND	μg/kg	1,2,4-Trimethylbenzene	5.4	ND	μg/kg
1,1-Dichloroethene	2.7	ND	μg/kg	1,3,5 – Trimethylbenzene	2.7	ND	μg/kg
cis-1,2-Dichloroethene	2.7	ND	μg/kg	Vinyl Chloride	2.7	ND	μg/kg
trans-1,2-Dichloroethene	2.7	ND	μg/kg	m&p-Xylene	2.7	ND	μg/kg
Dichloromethane	2.7	ND	μg/kg	o-Xylene	2.7	ND	μg/kg
			0	Diisopropyl Ether	2.7	ND	μg/kg
				MTBE	2.7	ND	μg/kg

- ND: Not Detected
 - B: Detected in method blank.
 - J: Detected but below detection limit. Estimated concentration

Determined according to modified EPA GC-MS Method 8260.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	Trip Blank		Date Received:		7/27/94	
Sample Matrix	: Water – Methanol		Lab Batch ID:		9407047	
Date Collected	1: 7/25/94	_	Lab Sample ID:		005132	
Project:	Bob's Service		Reviewed By:		DUS	
Project #:	10-0232.00					
Parameter Number	Parameter	PQL	Concen- tration	Units	Com– ments	Date Analyzed
78920	Gasoline Range Organics (GRO)	2500	ND	µg/l	None	8/05/94

ND: Not Detected

- J: Detected but below PQL. Estimated concentration PQL: Practical Quantitation Limit GRO/DRO: Determined by Modified Wisconsin WDNR LUST Guidance.
 - PVOC: Determined according to Modified EPA Method 8020.

CONCENTRATION: Results on dry weight basis

GRO Comments:

- Significant early eluting peaks before GRO window.
 Significant late eluting peaks after GRO window.
 Majority of GRO compounds in early portion of window.
 Majority of GRO compounds in later portion of window.
- 5. GRO window shows a raised baseline.

						Ree. m	Dee	
CWEL CHAIN O	F CUS	וססו	(RE	со	RD	Cruels	Botal H	940704
PROJECT NO. PROJECT NAME / CLIENT		T			11		rels	
10-0232,00 Bob's Service							rus	
SAMPLERS: (Signature)	- NO.		/ /	/ /		est la		
Soil Rosemon	OF		· /	1.	7.Y	Color	REMARKS	
SAMPLE DATE TIME O SAMPLE LOCATION	- CON- TAINERS		J.S.	\$/F	D d	Ý		CWEL LAB ID
2372 7/25/AV 9:10 × TP-12 D=5-7	4glass	ľx íx	ίx	X	113.5	ana ana ang ang ang ang ang ang ang ang		005(20
2373 1/25/949:35 × TP-12 D=10-12	4 glass	$\frac{1}{1}$		$\frac{1}{1}$	NR		1. <u> </u>	21
2374 765/94 9:55 × TP-16 0= 5-7	4slass			+	1176			32
2375 765/1010 × PP-16 0= 10-12	Yclass			\dagger	NR			23
2376 7/25 A410.45 × TP-2 D=5-7	Yslass			┼┼┤	NP-			24
2377 7/25/14/11:05 × TP-2 p-10-12	4 slass			┼╌┠╌┦	NR			25
2378 7/25/98/12:15 X TP-3 D=75-9.5	4 Alass	+++			414,60			ak
2379 7/25/94/2:20 × 7P-3 D=10-12	Yalass	.++++			1.5			27
23807/25/94/11:30 x TP-4 D = 5-7	4 glass			\uparrow	NR			28
2381 7/25/14/11:40 × TP-4 0=10-12	4glass		+	\uparrow	NR			29
2382 7/25/14/2:50 x 77-5 D=2.5-4.5	Yglas		+ +	<u></u> † - - †	NR	<u> </u>		30
22 02 /2/ // / - 0 - 0 /2 /2	Islas		1.1		NR		·.	31
1303 118/19/10 × TP-3 D=10-12 Metland Blank	Islass					···		32
rierume. munic	Sigis			┼──┼	•			07
	+							
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signa	ture)	RELINQ	UISHE	D BY:	(Signature)	DATE/TIME	RECEIVED BY	: (Signature)
And Respinger 7/26/94/2:40 Dug brown								
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)	ture)	RELINQ	UISHE	D BY:	(Signature)	DATE/TIME	RECEIVED BY	: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED FOR LAB BY: (Signature) BY: (Signature)	ORATORY	DA קר 2/ר	y [0.	ie Da	REMARK	5:		
	•							
Owen Ayres & Associates, Inc. Engineers/Architects/Scientists/Photogrammetrists								
ASSOCIATES 1300 W. Clairemont Avenue, P.O. Box 1590, Eau Claire, WI	54702-1590, (715) 834-3	161	L				



11/27/95

TERRI HAZELTON AYRES ASSOCIATES 3433 OAKWOOD HILLS PKWY. EAU CLAIRE, WI 54702

> Date Sampled: 10/30/95 Date Received: 11/01/95 Submission # : 9511000033

> > :

Project Name: **BOB'S SERVICE** Project Number: 10-0232.00

Dear TERRI HAZELTON

Please find enclosed a revised laboratory report of samples submitted to MSA Environmental for the project listed above. This report is titled "Revised Analytical Report" at the top of the page, and supercedes any previous reports. All tests were performed in accordance with applicable EPA and WI DNR guidelines and methodologies.

Copies of the report, as well as all original analytical data, are retained by the laboratory for a minimum of three years from the date of analysis. Samples submitted to the laboratory will be disposed of by procedures acceptable to regulatory agencies, unless prior arrangements are made by the submitting client.

Thank you for the opportunity to serve you. Should any questions or concerns arise, please feel free to contact me.

Sincerely, MID-STATE ASSOCIATES, INC.

att aller

Scott Allen Analytical Section Manager



Page:1

Client I.D. No.: LA200000173 Work Order No.: 9511000033 **Report Date: 11/27/95** Date Received: 11/01/95 Arrival Temperature: On Ice

AYRES ASSOCIATES TERRI HAZELTON 3433 OAKWOOD HILLS PKWY. EAU CLAIRE, WI 54702

Project Name: BOB'S SERVICE

Project Number: 10-0232.00

Sample Sample <u>I.D. #:</u> 114090 <u>Description:</u> BW-1,S-3		Da	ate Sample	
Analyte	Result	<u>Units</u>	LOD	LOQ
Gasoline Range Organics- WDNR Modified GRO Extraction Date GRO Analysis Date GRO	<1.0 11/02/95 11/04/95	mg/kg	1.0	3.3
LUST Total Percent SolidsEPA 5030 VOC Analysis Date VOC Extraction Date Analytical Method	67.6 11/06/95 11/04/95 8021	%		
Benzene Bromobenzene Bromodichloromethane	<0.025 <0.025 <0.025 <0.025 <0.025	mg/Kg mg/Kg mg/Kg mg/Kg	0.010 0.015 0.010 0.020	0.033 0.050 0.033 0.067
n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon tetrachloride	<0.025 <0.025 <0.025	mg/Kg mg/Kg mg/Kg	0.020 0.010 0.015	0.067 0.033 0.050
Chlorobenzene	<0.025	mg/Kg	0.010	0.033
Chloroethane	<0.025	mg/Kg	0.020	0.067
Chloroform	<0.025	mg/Kg	0.010	0.033
Chloromethane	<0.025	mg/Kg	0.025	0.083
2-Chlorotoluene	<0.025	mg/Kg	0.015	0.050
4-Chlorotoluene	<0.025	mg/Kg	0.015	0.050
Chlorodibromomethane	<0.025	mg/Kg	0.010	0.033
1,2-Dibromo-3-chloropropane	<0.025	mg/Kg	0.010	0.033
1,2-Dibromoethane (EDB)	<0.025	mg/Kg	0.010	0.033
1,2-Dichlorobenzene	<0.025	mg/Kg	0.010	0.033
1,3-Dichlorobenzene	<0.025	mg/Kg	0.010	0.033
1,4-Dichlorobenzene	<0.025	mg/Kg	0.010	0.033
Dichlorodifluoromethane	<0.025	mg/Kg	0.020	0.067
1,1-Dichloroethane	<0.025	mg/Kg	0.010	0.033
1,2-Dichloroethane	<0.025	mg/Kg	0.010	0.033
1,1-Dichloroethene	<0.025	mg/Kg	0.020	0.067
cis-1,2-Dichloroethene	<0.025	mg/Kg	0.010	0.033
trans-1,2-Dichloroethene	<0.025	mg/Kg	0.010	0.033
1,2-Dichloropropane	<0.025	mg/Kg	0.010	0.033
1,3-Dichloropropane	<0.025	mg/Kg	0.015	0.050
2,2-Dichloropropane	<0.025	mg/Kg	0.010	0.033
Diisopropyl ether	<0.025	mg/Kg	0.010	0.033
Ethylbenzene	<0.025	mg/Kg	0.010	0.033
Hexachlorobutadiene	<0.025	mg/Kg	0.015	0.050
Isopropylbenzene	<0.025	mg/Kg	0.010	0.033
p-Isopropyltoluene	<0.025	mg/Kg	0.010	0.033
Methylene chloride (Dichloromethane)	<0.050	mg/Kg	0.050	0.17
Methyl-tert-butyl ether	<0.025	mg/Kg	0.020	0.067
Naphthalene	<0.025	mg/Kg	0.010	0.033
n-Propylbenzene	<0.025	mg/Kg	0.015	0.050
1, 1, 2, 2-Tetrachloroethane	<0.025	mg/Kg	0.010	0.033
Tetrachloroethene	<0.025	mg/Kg	0.020	0.067
Toluene	<0.025	mg/Kg	0.010	0.033
1,2,3-Trichlorobenzene	<0.025	mg/Kg	0.020	0.067

Submitted By

•



Client I.D. No.: LA2000000173 Work Order No.: 9511000033 Report Date: 11/27/95 Date Received: 11/01/95 Arrival Temperature: On Ice

Project Number: 10-0232.00

SampleSampleI.D. #:114090Description: BW-1,S-3		<u>D</u> :	ate Sample	ed:10/30/95
Analyte	<u>Result</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>
1,2,4-Trichlorobenzene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichlorofluoromethane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl chloride m&p-Xylene o-Xylene	<0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	$\begin{array}{c} 0.020\\ 0.025\\ 0.010\\ 0.010\\ 0.020\\ 0.020\\ 0.015\\ 0.020\\ 0.020\\ 0.020\\ 0.020\\ 0.020\\ \end{array}$	$\begin{array}{c} 0.067\\ 0.083\\ 0.033\\ 0.033\\ 0.067\\ 0.067\\ 0.050\\ 0.067\\ 0.067\\ 0.067\\ 0.067\\ \end{array}$
Sample Sample <u>I.D. #:</u> 114091 <u>Description:</u> BW-1,S-5		D	ate Sample	ed:10/30/95
Analyte	<u>Result</u>	Units	LOD	LOQ
Gasoline Range Organics- WDNR Modified GRO Extraction Date GRO Analysis Date GRO LUST Total Percent SolidsEPA 5030 VOC Analysis Date VOC Extraction Date Analytical Method	<1.0 11/02/95 11/03/95 86.3 11/06/95 11/04/95 8021	mg/kg %	1.0	3.3
Benzene Bromobenzene Bromodichloromethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroform Chloromethane 2-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB) 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene	 <0.025 <0.02	gggggggggggggggggggggggggggggggggggggg	0.010 0.015 0.020 0.020 0.010 0.015 0.010 0.025 0.015 0.015 0.015 0.015 0.015 0.015 0.010 0.010 0.010 0.010 0.010 0.020 0.010 0.010 0.010 0.020 0.010 0	$\begin{array}{c} 0.033\\ 0.050\\ 0.033\\ 0.067\\ 0.067\\ 0.033\\ 0.050\\ 0.033\\ 0.067\\ 0.033\\ 0.083\\ 0.050\\ 0.050\\ 0.050\\ 0.050\\ 0.033\\ 0.033\\ 0.033\\ 0.033\\ 0.033\\ 0.033\\ 0.033\\ 0.033\\ 0.033\\ 0.033\\ 0.033\\ 0.067\\ 0.033\\ 0.033\\ 0.067\\ 0.033\\ 0.033\\ 0.067\\ 0.033\\ 0.033\\ 0.067\\ 0.033\\ 0.033\\ 0.033\\ 0.067\\ 0.033\\ 0.$

Submitted By

Page:2

AYRES ASSOCIATES TERRI HAZELTON 3433 OAKWOOD HILLS PKWY. EAU CLAIRE, WI 54702

.

Project Name: BOB'S SERVICE



Client I.D. No.: LA200000173 Work Order No.: 9511000033 Report Date: 11/27/95 Date Received: 11/01/95 Arrival Temperature: On Ice

AYRES ASSOCIATES TERRI HAZELTON 3433 OAKWOOD HILLS PKWY. EAU CLAIRE, WI 54702

Project Name: BOB'S SERVICE

Project Number: 10-0232.00

Sample Sample <u>I.D. #:</u> 114091 <u>Description:</u> BW-1,S-5		Da	<u>ate Sample</u>	<u>d:</u> 10/30/95
Analyte	<u>Result</u>	<u>Units</u>	LOD	LOQ
1,2-Dichloropropane 1,3-Dichloropropane 2,2-Dichloropropane Diisopropyl ether Ethylbenzene Hexachlorobutadiene Isopropylbenzene p-Isopropyltoluene Methyl-tert-butyl ether Naphthalene n-Propylbenzene 1,1,2,2-Tetrachloroethane Tetrachloroethene Toluene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,2,4-Trichloroethane 1,2,4-Trichloroethane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl chloride m&p-Xylene o-Xylene	<0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025	mgygyggggggggggggggggggggggggggggggggg	0.010 0.015 0.010 0.010 0.010 0.015 0.010 0.020 0.010 0.020 0.010 0.020 0.020 0.020 0.020 0.020 0.010 0.020	0.033 0.033 0.033 0.033 0.050 0.033 0.050 0.033 0.17 0.067 0.033 0.050 0.033 0.067 0.067 0.033 0.067 0.033 0.067 0.033 0.067 0.033 0.067 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07
Sample Sample <u>I.D. #:</u> 114092 <u>Description:</u> B-2,S-1		<u>D</u>	ate Sample	ed:10/30/95
Analyte	<u>Result</u>	<u>Units</u>	LOD	LOQ
Gasoline Range Organics- WDNR Modified GRO Sample contained fractions lighter and heavier Extraction Date GRO Analysis Date GRO LUST Total Percent SolidsEPA 5030 VOC Analysis Date Elevated reporting limit due to sample dilution levels of target and/or non-target compounds.	11/02/95 11/03/95 70.7 . 11/06/95	%	1.0	3.3
VOC Extraction Date Analytical Method Benzene Bromobenzene Bromodichloromethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene	11/04/95 8021 17 <1.2 <1.2 10 <1.2 <1.2	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	0.010 0.015 0.010 0.020 0.020 0.010	0.033 0.050 0.033 0.067 0.067 0.033

Submitted By

1230 Lange Court, Baraboo, WI 53913 • 1-800-228-3012 • Fax (608) 356-2766 WI DNR Lab Certification Number: 157066030 • DHSS Certification Number: MW0289



AYRES ASSOCIATES TERRI HAZELTON 3433 OAKWOOD HILLS PKWY. EAU CLAIRE, WI 54702

Project Name: BOB'S SERVICE

REVISED ANALYTICAL REPORT

Client I.D. No.: LA2000000173 Work Order No.: 9511000033 Report Date: 11/27/95 Date Received: 11/01/95 Arrival Temperature: On Ice

Project Number: 10-0232.00

Sample Sample I.D. #:114092 Description:B-2,S-1	Date Sampled: 10/30/95
Analyte	<u>Result Units LOD LOQ</u>
Carbon tetrachloride Chlorobenzene Chloroethane Chloroothane Chlorodibromomethane 2-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB) 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethene trans-1,2-Dichloroethene trans-1,2-Dichloroethene 1,2-Dichloropropane 2,2-Dichloropropane 2,2-Dichloropropane 1,3-Dichloropropane 2,2-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane Diisopropyl ether Ethylbenzene Hexachlorobutadiene Isopropylbenzene p-Isopropyltoluene Methylene chloride (Dichloromethane) Methyl-tert-butyl ether Naphthalene n-Propylbenzene 1,1,2,2-Tetrachloroethane Tetrachloroethene Toluene 1,2,4-Trichlorobenzene 1,1,2-Trichlorobenzene 1,2,4-Trichloroethane 1,2,4-Trichloroethane 1,2,4-Trinethylbenzene 1,3,5-Trimethylbenzene Vinyl chloride m&p-Xylene o-Xylene	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$



Page:5

Client I.D. No.: LA200000173 Work Order No.: 9511000033 Report Date: 11/27/95 Date Received: 11/01/95 Arrival Temperature: On Ice

AYRES ASSOCIATES TERRI HAZELTON 3433 OAKWOOD HILLS PKWY. EAU CLAIRE, WI 54702

Project Name: BOB'S SERVICE

Project Number: 10-0232.00

Sample Sample <u>I.D. #:</u> 114093 <u>Description:</u> B-2,S-6		Da	ate Sample	<u>d:</u> 10/30/95
Analyte	Result	<u>Units</u>	LOD	LOQ
Gasoline Range Organics- WDNR Modified GRO Estimated value, concentration was less than LC Extraction Date GRO	1.9)Q. 11/02/95	mg/kg	1.0	3.3
Analysis Date GRO LUST Total Percent SolidsEPA 5030 VOC Analysis Date VOC Extraction Date Analytical Method	11/04/95 88.3 11/06/95 11/04/95 8021	%		
VOC Extraction Date Analytical Method Benzene Bromobenzene Bromodichloromethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon tetrachloride Chlorobenzene Chloroothane Chloroform Chloroothane 2-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene Chlorodibromomethane 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB) 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane	8021 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025	mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm	$\begin{array}{c} 0.010\\ 0.015\\ 0.010\\ 0.020\\ 0.020\\ 0.010\\ 0.015\\ 0.010\\ 0.025\\ 0.015\\ 0.015\\ 0.015\\ 0.015\\ 0.015\\ 0.010\\ 0.000\\ 0.010\\ 0.000\\ 0.$	$\begin{array}{c} 0.033\\ 0.050\\ 0.033\\ 0.067\\ 0.067\\ 0.033\\ 0.050\\ 0.033\\ 0.067\\ 0.033\\ 0.067\\ 0.033\\ 0.050\\ 0.050\\ 0.033\\ 0.033\\ 0.033\\ 0.033\\ 0.033\\ 0.033\\ 0.033\\ 0.033\\ 0.033\\ 0.033\\ 0.033\\ 0.067\\ 0.033\\ 0.033\\ 0.067\\ 0.033\\ 0.033\\ 0.067\\ 0.033\\ 0.033\\ 0.067\\ 0.033\\ 0.033\\ 0.067\\ 0.033\\ 0.033\\ 0.067\\ 0.033\\ 0.033\\ 0.033\\ 0.067\\ 0.033\\ 0.$
trans-1,2-Dichloroethene 1,2-Dichloropropane 1,3-Dichloropropane 2,2-Dichloropropane Diisopropyl ether Ethylbenzene Hexachlorobutadiene Isopropylbenzene p-Isopropyltoluene Methylene chloride (Dichloromethane) Methyl-tert-butyl ether Naphthalene n-Propylbenzene 1,1,2,2-Tetrachloroethane Tetrachloroethene Toluene	<0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0	mg/Kggggggggggggggggggggggggggggggggggg	$\begin{array}{c} 0.010\\ 0.010\\ 0.015\\ 0.010\\ 0.010\\ 0.010\\ 0.015\\ 0.010\\ 0.010\\ 0.050\\ 0.020\\ 0.010\\ 0.015\\ 0.010\\ 0.015\\ 0.010\\ 0.020\\ 0.010\\ 0.020\\ 0.010\\ 0.020\\ 0.010\\ \end{array}$	$\begin{array}{c} 0.033\\ 0.033\\ 0.050\\ 0.033\\ 0.033\\ 0.033\\ 0.050\\ 0.033\\ 0.033\\ 0.07\\ 0.033\\ 0.17\\ 0.067\\ 0.033\\ 0.050\\ 0.033\\ 0.067\\ 0.033\\ 0.067\\ 0.033\\ \end{array}$



Page:6

Client I.D. No.: LA200000173 Work Order No.: 9511000033 Report Date: 11/27/95 Date Received: 11/01/95 Arrival Temperature: On Ice

AYRES ASSOCIATES TERRI HAZELTON 3433 OAKWOOD HILLS PKWY. EAU CLAIRE, WI 54702

Project Name: BOB'S SERVICE

Project Number: 10-0232.00

Sample Sample <u>I.D. #:</u> 114093 <u>Description:</u> B-2,S-6		Da	ate Sample	. <u>d:</u> 10/30/95
Analyte	<u>Result</u>	<u>Units</u>	<u>LOD</u>	LOQ
1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Trichlorofluoromethane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl chloride m&p-Xylene o-Xylene	<0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025	mg/Kg mg/Kgg mg/Kgg mg/Kgg mg/Kgg mg/Kgg mg/Kgg mg/Kgg mg/Kgg	$\begin{array}{c} 0.020\\ 0.020\\ 0.025\\ 0.010\\ 0.010\\ 0.020\\ 0.020\\ 0.015\\ 0.020\\ 0.020\\ 0.020\\ 0.020\\ 0.020\\ \end{array}$	$\begin{array}{c} 0.067\\ 0.067\\ 0.083\\ 0.033\\ 0.033\\ 0.067\\ 0.067\\ 0.067\\ 0.067\\ 0.067\\ 0.067\\ 0.067\\ 0.067\\ \end{array}$
Sample Sample <u>I.D. #:</u> 114094 <u>Description:</u> B-3,S-4		<u>D</u>	ate Sample	ed:10/30/95
Analyte	<u>Result</u>	<u>Units</u>	LOD	LOQ
Gasoline Range Organics- WDNR Modified GRO Sample contained fractions lighter than GRO hy value, concentration was less than LOQ. Extraction Date GRO Analysis Date GRO LUST Total Percent SolidsEPA 5030 VOC Analysis Date VOC Extraction Date Analytical Method	2.8 ydrocarbons. 1 11/02/95 11/04/95 84.0 11/06/95 11/04/95 8021	mg/kg Estimated %	1.0	3.3
Benzene Bromobenzene Bromodichloromethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon tetrachloride Chlorobenzene Chloroethane Chlorootoluene 4-Chlorotoluene 4-Chlorotoluene 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB) 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane	0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025	nmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm	$\begin{array}{c} 0.010\\ 0.015\\ 0.010\\ 0.020\\ 0.010\\ 0.015\\ 0.010\\ 0.020\\ 0.010\\ 0.020\\ 0.010\\ 0.025\\ 0.015\\ 0.015\\ 0.015\\ 0.010\\ 0.00$	$\begin{array}{c} 0.033\\ 0.050\\ 0.033\\ 0.067\\ 0.033\\ 0.050\\ 0.033\\ 0.067\\ 0.033\\ 0.067\\ 0.033\\ 0.083\\ 0.050\\ 0.033\\ 0.$



Page:7

Client I.D. No.: LA200000173 Work Order No.: 9511000033 **Report Date: 11/27/95** Date Received: 11/01/95 Arrival Temperature: On Ice

AYRES ASSOCIATES TERRI HAZELTON 3433 OAKWOOD HILLS PKWY. EAU CLAIRE, WI 54702

Project Name: BOB'S SERVICE

Analytical Method

Bromodichloromethane

Bromobenzene

Benzene

Project Number: 10-0232.00

Sample <u>I.D. #:</u> 114094	Sample <u>Description:</u> B-3,S-4		Da	ate Sample	<u>d:</u> 10/30/95
<u>Analyte</u>		Result	<u>Units</u>	LOD	LOQ
Methyl-tert-buty Naphthalene n-Propylbenzene 1,1,2,2-Tetrachl Tetrachloroether Toluene 1,2,3-Trichloroet 1,2,4-Trichloroet 1,1,1-Trichloroe 1,1,2-Trichloroethene Trichloroethene Trichlorofluoron 1,2,4-Trimethyl 1,3,5-Trimethyl Vinyl chloride m&p-Xylene o-Xylene	ethene roethene pane pane pane pane pane pane pane er diene e e ne ide (Dichloromethane) 'l ether e oroethane ne enzene enzene thane thane methane	<0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.057 <0.057 <0.057 <0.057 <0.057	mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm	0.020 0.010 0.010 0.010 0.015 0.010 0.010 0.010 0.010 0.010 0.020 0.010 0.020	$\begin{array}{c} 0.067\\ 0.033\\ 0.033\\ 0.033\\ 0.050\\ 0.033\\ 0.033\\ 0.033\\ 0.033\\ 0.050\\ 0.033\\ 0.050\\ 0.033\\ 0.067\\ 0.033\\ 0.067\\ 0.067\\ 0.083\\ 0.033\\ 0.067\\ 0.$
Sample <u>I.D. #:</u> 114095	Sample <u>Description:</u> B-3,S-5		D	ate Sampl	<u>ed:</u> 10/30/95
<u>Analyte</u>		<u>Result</u>	<u>Units</u>	LOD	LOQ
Estimated v fractions lig Extraction Date Analysis Date C	GRO cent SolidsEPA 5030 Date 1 Date	1.6 .OQ. Sample c 11/04/95 11/06/95 88.4 11/06/95 11/04/95 8021	mg/kg contained %	1.0	3.3

1230 Lange Court, Baraboo, WI 53913 • 1-800-228-3012 • Fax (608) 356-2766 WI DNR Lab Certification Number: 157066030 • DHSS Certification Number: MW0289

mg/Kg mg/Kg mg/Kg

0.010

0.015

0.010

0.033 0.050

0.033

11/04/95 8021

< 0.025

< 0.025

< 0.025



Page:8

Client I.D. No.: LA2000000173 Work Order No.: 9511000033 Report Date: 11/27/95 Date Received: 11/01/95 Arrival Temperature: On Ice

Project Number: 10-0232.00

Date Sampled: 10/30/95

AYRES ASSOCIATES TERRI HAZELTON 3433 OAKWOOD HILLS PKWY. EAU CLAIRE, WI 54702

Project Name: BOB'S SERVICE

SampleSampleI.D. #:114095Description: B-3,S-5

<u>Result</u>	<u>Units</u>	LOD	<u>LOQ</u>
0.040 .OO.	mg/Kg	0.020	0.067
<0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	0.020 0.010 0.015 0.010 0.020 0.010 0.025 0.015 0.015 0.010	$\begin{array}{c} 0.067\\ 0.033\\ 0.050\\ 0.033\\ 0.067\\ 0.033\\ 0.083\\ 0.050\\ 0.050\\ 0.033\\ \end{array}$
<0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	0.010 0.010 0.010 0.010 0.010 0.020 0.010 0.010 0.020 0.010	$\begin{array}{c} 0.033\\ 0.033\\ 0.033\\ 0.033\\ 0.033\\ 0.067\\ 0.033\\ 0.033\\ 0.067\\ 0.033\\ 0.067\\ 0.033\end{array}$
<0.025 <0.025 <0.025 <0.025 0.029 .OQ.	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	0.010 0.015 0.010 0.010 0.010	0.033 0.033 0.050 0.033 0.033 0.033
<0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0	ng/KK ggggggggggggggggggggggggggg/KK mgg/KKgggggggggg	$\begin{array}{c} 0.013\\ 0.010\\ 0.010\\ 0.050\\ 0.020\\ 0.015\\ 0.010\\ 0.020\\ 0.020\\ 0.020\\ 0.020\\ 0.025\\ 0.010\\ 0.020\\ 0.025\\ 0.010\\ 0.020\\ 0.025\\ 0.010\\ 0.020\\ 0.020\\ 0.020\\ 0.015\\ 0.020\\ \end{array}$	$\begin{array}{c} 0.050\\ 0.033\\ 0.033\\ 0.17\\ 0.067\\ 0.033\\ 0.050\\ 0.033\\ 0.067\\ 0.083\\ 0.067\\ 0.083\\ 0.033\\ 0.063\\ 0.033\\ 0.067\\ 0.067\\ 0.067\\ 0.050\\ 0.067\\ 0.050\\ 0.067\\ \end{array}$
	0.040 OQ. <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0	0.040 mg/Kg <0.025	$\begin{array}{c c c c c c c c c c c c c c c c c c c $



Client I.D. No.: LA200000173 Work Order No.: 9511000033 Report Date: 11/27/95 Date Received: 11/01/95 Arrival Temperature: On Ice

Project Number: 10-0232.00

Sample <u>I.D. #:</u> 114095	Sample <u>Description:</u> B-3,S-5		Da	<u>ite Sample</u>	<u>d:</u> 10/30/95
<u>Analyte</u>		<u>Result</u>	<u>Units</u>	LOD	<u>LOQ</u>
m&p-Xylene o-Xylene Estimated v	alue, concentration was less than LC	0.14 0.040 9Q.	mg/Kg mg/Kg	0.020 0.020	0.067 0.067
Sample <u>I.D. #:</u> 114096	Sample <u>Description:</u> B-4,S-4		Da	ate Sample	<u>d:</u> 10/30/95
Analyte		<u>Result</u>	<u>Units</u>	LOD	LOQ
Extraction Date		<1.0 11/04/95 11/06/95	mg/kg	1.0	3.3
VOC Analysis I VOC Extraction	cent SolidsEPA 5030 Date 1 Date	83.7 11/06/95 11/04/95 8021	%		
Analytical Meth Benzene Bromobenzene Bromodichloror		<0.025 <0.025 <0.025	mg/Kg mg/Kg mg/Kg	0.010 0.015 0.010	0.033 0.050 0.033
n-Butylbenzene sec-Butylbenzer tert-Butylbenzer Carbon tetrachlo	ne	<0.025 <0.025 <0.025 <0.025	mg/Kg mg/Kg mg/Kg mg/Kg	0.020 0.020 0.010 0.015	0.067 0.067 0.033 0.050
Chlorobenzene Chloroethane Chloroform		<0.025 <0.025 <0.025	mg/Kg mg/Kg mg/Kg	0.010 0.020 0.010	0.033 0.067 0.033
background	alue, concentration was less than LC contamination.	•	mğ/Kğ l	0.025	0.083
2-Chlorotoluene 4-Chlorotoluene Chlorodibromoo 1,2-Dibromoeth 1,2-Dichlorober 1,3-Dichlorober	e methane chloropropane ane (EDB) izene izene	<0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	0.015 0.015 0.010 0.010 0.010 0.010 0.010	$\begin{array}{c} 0.050\\ 0.050\\ 0.033\\ 0.$
1,4-Dichloroben Dichlorodifluor 1,1-Dichloroeth 1,2-Dichloroeth 1,1-Dichloroeth cis-1,2-Dichloro trans-1,2-Dichloropro 1,3-Dichloropro	omethane ane ane bene oroethene opane opane	<0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	$\begin{array}{c} 0.010\\ 0.020\\ 0.010\\ 0.010\\ 0.020\\ 0.010\\ 0.010\\ 0.010\\ 0.010\\ 0.015\\ 0.010\\ \end{array}$	$\begin{array}{c} 0.033\\ 0.067\\ 0.033\\ 0.033\\ 0.067\\ 0.033\\ 0.033\\ 0.033\\ 0.033\\ 0.050\\ 0.033\\ 0.050\\ 0.033\\ \end{array}$
2,2-Dichloropro Diisopropyl eth		<0.025 <0.025	mg/Kg	0.010	0.033

Submitted By

AYRES ASSOCIATES TERRI HAZELTON 3433 OAKWOOD HILLS PKWY. EAU CLAIRE, WI 54702

Project Name: BOB'S SERVICE



Client I.D. No.: LA200000173 Work Order No.: 9511000033 **Report Date: 11/27/95** Date Received: 11/01/95 Arrival Temperature: On Ice

AYRES ASSOCIATES TERRI HAZELTON 3433 OAKWOOD HILLS PKWY. EAU CLAIRE, WI 54702

Project Name: BOB'S SERVICE

4-Chlorotoluene

Project Number: 10-0232.00

Sample Sample <u>I.D. #:</u> 114096 <u>Description:</u> B-4,S-4		Da	ate Sample	<u>ed:</u> 10/30/95
Analyte	<u>Result</u>	<u>Units</u>	LOD	<u>LOQ</u>
Ethylbenzene Hexachlorobutadiene Isopropylbenzene p-Isopropyltoluene Methylene chloride (Dichloromethane) Methyl-tert-butyl ether Naphthalene n-Propylbenzene 1,1,2,2-Tetrachloroethane Tetrachloroethene Toluene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Trichloroethene Trichlorofluoromethane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl chloride m&p-Xylene o-Xylene	<0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0	mg/KKgggggggggggggggggggggggggggggggggg	$\begin{array}{c} 0.010\\ 0.015\\ 0.010\\ 0.050\\ 0.020\\ 0.010\\ 0.015\\ 0.010\\ 0.020\\ 0.020\\ 0.020\\ 0.020\\ 0.025\\ 0.010\\ 0.020\\ 0.025\\ 0.010\\ 0.020\\ 0.000\\ 0.000\\ 0.000\\ 0.000\\ 0.000\\ 0.000\\ 0.000\\ 0.000\\ 0.000\\ 0.$	$\begin{array}{c} 0.033\\ 0.050\\ 0.033\\ 0.033\\ 0.17\\ 0.067\\ 0.033\\ 0.050\\ 0.033\\ 0.067\\ 0.067\\ 0.067\\ 0.083\\ 0.033\\ 0.067\\ 0.0$
Sample Sample <u>I.D. #:</u> 114097 <u>Description:</u> B-4,S-5		D	ate Sample	ed:10/30/95
Analyte	<u>Result</u>	<u>Units</u>	LOD	LOQ
Gasoline Range Organics- WDNR Modified GRO Extraction Date GRO Analysis Date GRO LUST Total Percent SolidsEPA 5030 VOC Analysis Date VOC Extraction Date Analytical Method	<1.0 11/04/95 11/06/95 86.1 11/06/95 11/04/95 8021	mg/kg %	1.0	3.3
Benzene Bromobenzene Bromodichloromethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroform Chloroform Chloromethane 2-Chlorotoluene	<pre>>0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025</pre>	mg/Kg gg/KKg mgg/Kkg gg/Kkg mgg/Kkg mgg/Kkg mgg/Kg mgg/Kg mgg/Kg mgg/Kg	$\begin{array}{c} 0.010\\ 0.015\\ 0.010\\ 0.020\\ 0.020\\ 0.010\\ 0.015\\ 0.010\\ 0.020\\ 0.010\\ 0.025\\ 0.015\\ 0.015\\ \end{array}$	$\begin{array}{c} 0.033\\ 0.050\\ 0.033\\ 0.067\\ 0.067\\ 0.033\\ 0.050\\ 0.033\\ 0.067\\ 0.033\\ 0.067\\ 0.033\\ 0.083\\ 0.050\\ \end{array}$

1230 Lange Court, Baraboo, WI 53913 • 1-800-228-3012 • Fax (608) 356-2766 WI DNR Lab Certification Number: 157066030 • DHSS Certification Number: MW0289

mg/Kg mg/Kg

< 0.025

Submitted By

0.015

0.050

Page:10



Client I.D. No.: LA2000000173 Work Order No.: 9511000033 Report Date: 11/27/95 Date Received: 11/01/95 Arrival Temperature: On Ice

AYRES ASSOCIATES TERRI HAZELTON 3433 OAKWOOD HILLS PKWY. EAU CLAIRE, WI 54702

Project Name: BOB'S SERVICE

Project Number: 10-0232.00

$\begin{array}{llllllllllllllllllllllllllllllllllll$	Sample Sample <u>I.D. #:</u> 114097 <u>Description:</u> B-4,S-5		Da	ate Sample	ed:10/30/95
$\begin{array}{llllllllllllllllllllllllllllllllllll$	Analyte	Result	<u>Units</u>	LOD	LOQ
Vinyl chloride <0.025 mg/Kg 0.020 0.067 m&p-Xylene <0.025	Chlorodibromomethane 1,2-Dibromo-3-chloropropane 1,2-Dibromo-3-chloropropane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene 1,3-Dichloropropane 2,2-Dichloropropane 2,2-Dichloropropane Disopropyl ether Ethylbenzene Hexachlorobutadiene Isopropylbenzene p-Isopropyltoluene Methyl-tert-butyl ether Naphthalene 1,2,3-Trichlorobenzene 1,2,4-Trichloroethane Trichloroethene Trichloroethene Trichloroethene 1,2,4-Trimethylbenzene	$\begin{array}{c} < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\$	gggggggggggggggggggggggggggggggggggggg	0.010 0.010 0.010 0.010 0.010 0.020 0.010 0.020 0.010 0.020 0	$\begin{array}{c} 0.033\\ 0.033\\ 0.033\\ 0.033\\ 0.033\\ 0.033\\ 0.033\\ 0.067\\ 0.033\\ 0.033\\ 0.067\\ 0.033\\ 0.033\\ 0.050\\ 0.033\\ 0.050\\ 0.033\\ 0.050\\ 0.033\\ 0.050\\ 0.033\\ 0.050\\ 0.033\\ 0.050\\ 0.033\\ 0.050\\ 0.033\\ 0.050\\ 0.033\\ 0.067\\ 0.067\\ 0.083\\ 0.033\\ 0.067\\ 0.067\\ 0.083\\ 0.033\\ 0.067\\ 0.$
o-Xylene <0.025 mg/Kg 0.020 0.067	Vinyl chloride m&p-Xylene	<0.025 <0.025	mg/Kg mg/Kg	0.020 0.020	0.067 0.067

Sample <u>I.D. #:</u> 114098	Sample <u>Description:</u> B-5,S-4		Date Sampled: 10/30/9			
<u>Analyte</u>		<u>Result</u>	<u>Units</u>	LOD	LOQ	
Extraction Date Analysis Date G		<1.0 11/04/95 11/06/95 66.9	mg/kg %	1.0	3.3	

Submitted By:

Page:11

1230 Lange Court, Baraboo, WI 53913 • 1-800-228-3012 • Fax (608) 356-2766 WI DNR Lab Certification Number: 157066030 • DHSS Certification Number: MW0289



Page:12

Client I.D. No.: LA2000000173 Work Order No.: 9511000033 Report Date: 11/27/95 Date Received: 11/01/95 Arrival Temperature: On Ice

Project Number: 10-0232.00

AYRES ASSOCIATES TERRI HAZELTON 3433 OAKWOOD HILLS PKWY. EAU CLAIRE, WI 54702

.

Project Name: BOB'S SERVICE

Sample <u>I.D. #:</u> 114098	Sample <u>Description:</u> B-5,S-4	Date Sampled: 10/30/95				
Analyte		<u>Result</u>	<u>Units</u>	LOD	LOQ	
VOC Analysis D VOC Extraction Analytical Metho Benzene Bromobenzene Bromodichlorom n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon tetrachlo Chlorobenzene Chloroethane Chlorootoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 1,2-Dibromo-3-cc 1,2-Dibromo-3-cc 1,2-Dibromoetha 1,2-Dichloroben: 1,3-Dichloroben: 1,4-Dichloroetha 1,1-Dichloroetha 1,1-Dichloroetha 1,2-Dichloroprop 2,2-Dichloroprop 1,3-Dichloroprop 2,2-Dichloroprop Disopropyl ethe Ethylbenzene Hexachlorobutad Isopropylbenzene p-Isopropylbenzene n-Propylbenzene 1,2,3-Trichlorob 1,2,4-Trichloroe 1,1,2-Trichloroe 1,1,2-Trichloroe 1,1,2-Trichloroe 1,1,2-Trichloroe	Date od eethane e e ride nethane hloropropane me (EDB) zene zene zene zene zene methane ne ethene roethene oane oane oane oane oane oane oane o	$\begin{array}{c} 11/06/95\\ 11/04/95\\ 8021\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.025\\ < 0.02$	用,用,用,用,用,用,用,用,用,用,用,用,用,用,用用,用用用用,用用用用	0.010 0.015 0.010 0.020 0.010 0.015 0.010 0.020 0.010 0.025 0.015 0.015 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.010 0.010 0.020 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.020 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.020 0.010 0	0.033 0.050 0.033 0.067 0.033 0.050 0.033 0.067 0.033 0.033 0.050 0.033 0.067 0.033 0.033 0.033 0.067 0.033 0.033 0.067 0.033 0.033 0.067 0.033 0.067 0.033 0.067 0.033 0.067 0.033 0.067 0.033 0.067 0.033 0.067 0.033 0.067 0.033 0.067 0.033 0.067 0.033 0.067 0.033 0.067 0.033 0.067 0.033 0.067 0.033 0.067 0.033 0.067 0.033 0.067 0.033 0.067 0.033 0	



Client I.D. No.: LA2000000173 Work Order No.: 9511000033 Report Date: 11/27/95 Date Received: 11/01/95 Arrival Temperature: On Ice

AYRES ASSOCIATES TERRI HAZELTON 3433 OAKWOOD HILLS PKWY. EAU CLAIRE, WI 54702

,

Project Name: BOB'S SERVICE

Project Number: 10-0232.00

Sample <u>I.D. #:</u> 114098	Sample <u>Description:</u> B-5,S-4		Da	ate Sample	<u>d:</u> 10/30/95
Analyte		Result	<u>Units</u>	LOD	<u>LOQ</u>
Trichlorofluoron 1,2,4-Trimethyll 1,3,5-Trimethyll Vinyl chloride m&p-Xylene o-Xylene	benzene	<0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	0.020 0.020 0.015 0.020 0.020 0.020	0.067 0.067 0.050 0.067 0.067 0.067
Sample <u>I.D. #:</u> 114099	Sample <u>Description:</u> B-5,S-5		D	ate Sample	<u>d:</u> 10/30/95
Analyte		Result	<u>Units</u>	LOD	LOQ
Extraction Date Analysis Date G LUST Total Per VOC Analysis D	RO cent SolidsEPA 5030 Date	<1.0 11/04/95 11/06/95 73.1 11/06/95 11/04/95	mg/kg %	1.0	3.3
VOC Extraction Date Analytical Method Benzene Bromobenzene		8021 <0.025 <0.025	mg/Kg mg/Kg	0.010 0.015	0.033

Extraction Date GRO	11/04/95			
Analysis Date GRO	11/06/95			
LUST Total Percent SolidsEPA 5030	73.1	%		
VOC Analysis Date	11/06/95			
VOC Extraction Date	11/04/95			
Analytical Method	8021			
Benzene	< 0.025	mg/Kg	0.010	0.033
Bromobenzene	< 0.025	mg/Kg	0.015	0.050
Bromodichloromethane	< 0.025	mg/Kg	0.010	0.033
n-Butylbenzene	< 0.025	mg/Kg	0.020	0.067
sec-Butylbenzene	< 0.025	mg/Kg	0.020	0.067
tert-Butylbenzene	< 0.025	mg/Kg	0.010	0.033
Carbon tetrachloride	< 0.025	mg/Kg	0.015	0.050
Chlorobenzene	< 0.025	mg/Kg	0.010	0.033
Chloroethane	< 0.025	mg/Kg	0.020	0.067
Chloroform	< 0.025	mg/Kg	0.010	0.033
Chloromethane	< 0.025	mg/Kg	0.025	0.083
2-Chlorotoluene	< 0.025	mg/Kg	0.015	0.050
4-Chlorotoluene	< 0.025	mg/Kg	0.015	0.050
Chlorodibromomethane	< 0.025	mg/Kg	0.010	0.033
1,2-Dibromo-3-chloropropane	< 0.025	mg/Kg	0.010	0.033
1,2-Dibromoethane (EDB)	< 0.025	mg/Kg	0.010	0.033
1,2-Dichlorobenzene	< 0.025	mg/Kg	0.010	0.033
1,3-Dichlorobenzene	< 0.025	mg/Kg	0.010	0.033
1,4-Dichlorobenzene	< 0.025	mg/Kg	0.010	0.033
Dichlorodifluoromethane	< 0.025	mg/Kg	0.020	0.067
l, l-Dichloroethane	< 0.025	mg/Kg	0.010	0.033
1,2-Dichloroethane	< 0.025	mg/Kg	0.010	0.033
1,1-Dichloroethene	< 0.025	mg/Kg	0.020	0.067
cis-1,2-Dichloroethene	< 0.025	mg/Kg	0.010	0.033
trans-1,2-Dichloroethene	< 0.025	mg/Kg	0.010	0.033
1,2-Dichloropropane	< 0.025	mg/Kg	0.010	0.033
1,3-Dichloropropane	< 0.025	mg/Kg	0.015	0.050
2,2-Dichloropropane	< 0.025	mg/Kg	0.010	0.033
Diisopropyl éthér	<0.025	mg/Kg	0.010	0.033



Page:14

.

Client I.D. No.: LA2000000173 Work Order No.: 9511000033 Report Date: 11/27/95 Date Received: 11/01/95 Arrival Temperature: On Ice

Project Number: 10-0232.00

Date Sampled: 10/30/95

Date Sampled: 10/30/95

AYRES ASSOCIATES TERRI HAZELTON 3433 OAKWOOD HILLS PKWY. EAU CLAIRE, WI 54702

Project Name: BOB'S SERVICE

SampleSampleI.D. #:114099Description:B-5,S-5

Analyte	Result	<u>Units</u>	LOD	<u>LOQ</u>
Ethylbenzene	<0.025	mg/Kg	0.010	0.033
Hexachlorobutadiene	<0.025	mg/Kg	0.015	0.050
Isopropylbenzene	<0.025	mg/Kg	$0.010 \\ 0.010$	0.033
p-Isopropyltoluene	<0.025	mg/Kg		0.033
Methylene chloride (Dichloromethane)	< 0.050	mg/Kg	0.050	0.17
Methyl-tert-butyl ether	<0.025	mg/Kg	0.020	0.067
Naphthalene	<0.025	mg/Kg	0.010	0.033
n-Propylbenzene	<0.025	mg/Kg	0.015	0.050
1,1,2,2-Tetrachloroethane	<0.025	mg/Kg	0.010	0.033
Tetrachloroethene	< 0.025	mg/Kg	0.020	0.067
Toluene	<0.025	mg/Kg	0.010	0.033
1,2,3-Trichlorobenzene	<0.025	mg/Kg	0.020	0.067
1,2,4-Trichlorobenzene	<0.025	mg/Kg	$0.020 \\ 0.025$	0.067
1,1,1-Trichloroethane	<0.025	mg/Kg		0.083
1,1,2-Trichloroethane	< 0.025	mg/Kg	0.010	0.033
Trichloroethene	<0.025	mg/Kg	0.010	0.033
Trichlorofluoromethane	<0.025	mg/Kg	0.020	0.067
1,2,4-Trimethylbenzene	<0.025	mg/Kg	0.020	0.067
1,3,5-Trimethylbenzene	<0.025	mg/Kg	0.015	0.050
Vinyl chloride	< 0.025	mg/Kg	0.020	0.067
m&p-Xylene	<0.025	mg/Kg	0.020	0.067
o-Xylene	<0.025	mg/Kg	0.020	0.067

SampleSampleI.D. #:114100Description: MeOH BLANK

Analyte	<u>Result</u>	<u>Units</u>	LOD	<u>LOQ</u>
Gasoline Range Organics Extraction Date GRO	<1.0 11/06/95	mg/kg	1.0	3.3
Analysis Date GRO VOC Analysis Date VOC Extraction Date	11/07/95 11/05/95 11/04/95			
Analytical Method Benzene	8021 <0.025	mg/Kg	0.010	0.033
Bromobenzene Bromodichloromethane	<0.025 <0.025	mg/Kg mg/Kg	0.015 0.010	0.050
n-Butylbenzene sec-Butylbenzene tert-Butylbenzene	<0.025 <0.025 <0.025	mg/Kg mg/Kg mg/Kg	0.020 0.020 0.010	0.067 0.067 0.033
Carbon tetrachloride Chlorobenzene	<0.025 <0.025 <0.025	mg/Kg mg/Kg	0.015 0.010	0.050 0.033
Chloroethane Chloroform	<0.025 <0.025	mg/Kg mg/Kg	0.020 0.010	0.067
Chloromethane 2-Chlorotoluene 4-Chlorotoluene	<0.025 <0.025 <0.025	mg/Kg mg/Kg mg/Kg	0.025 0.015 0.015	0.083 0.050 0.050
Chlorodibromomethane	<0.025	mg/Kg	0.010	0.033



Client I.D. No.: LA200000173 Work Order No.: 9511000033 Report Date: 11/27/95 Date Received: 11/01/95 Arrival Temperature: On Ice

AYRES ASSOCIATES TERRI HAZELTON 3433 OAKWOOD HILLS PKWY. EAU CLAIRE, WI 54702

Project Name: BOB'S SERVICE

Project Number: 10-0232.00

Sample Sample <u>I.D. #:</u> 114100 <u>Description:</u> MeOH BLANK		Da	ate Sample	<u>d:</u> 10/30/95
Analyte	Result	<u>Units</u>	LOD	LOQ
1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB) 1,2-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethene trans-1,2-Dichloroethene 1,2-Dichloropropane 1,3-Dichloropropane 2,2-Dichloropropane 2,2-Dichloropropane Diisopropyl ether Ethylbenzene Hexachlorobutadiene Isopropylbenzene p-Isopropyltoluene Methyl-tert-butyl ether Naphthalene n-Propylbenzene 1,1,2,2-Tetrachloroethane Tetrachloroethene 1,1,2-Trichlorobenzene 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,2,4-Trinethylbenzene 1,3,5-Trimethylbenzene 1,3,5-Trimethylbenzene 0-Xylene	$\begin{array}{c} < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\ < 0.025 \\$	ĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸ	0.010 0.010 0.010 0.010 0.020 0.010 0.010 0.010 0.010 0.010 0.010 0.015 0.010 0.010 0.015 0.010 0.010 0.015 0.010 0.010 0.015 0.010 0.020 0	0.033 0.033 0.033 0.033 0.033 0.067 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.047 0.033 0.067 0.033 0.067 0.07 0.07 0.07 0.07 0.07 0.07 0.07
Sample Sample <u>I.D. #:</u> 114101 <u>Description:</u> W-1		<u>D</u>	ate Sample	<u>ed:</u> 10/30/95

$\underline{\mathbf{D}}, \underline{\mathbf{m}}, \underline{\mathbf{n}}, \underline$		느	ate Sampr	<u>cu.</u> 10/50/75
Analyte	Result	<u>Units</u>	LOD	LOQ
Gasoline Range Organics-WDNR Modified GRO Analysis Date GRO	<50 11/04/95	ug/L	50	170
Benzene Bromobenzene	<0.2 <0.2	ug/L ug/L	0.2 0.2	0.7 0.7
Bromodichloromethane	<0.2	ug/L	0.2	0.7

Submitted By:

Page:15

St: 1. of Wisconsin Department of Natural Resources CIIAIN OF CUSTODY RECORD LUST PROGRAM Form 4400-151 Rev. 4-93



NOIC: Use of th NR 158 and NF							to ch. NR 149, be used for no	NR 500-540, other purpose. $\mathbf{O} \rightarrow \mathbf{I}$	arn for	c 1.1	20			Recycled Paper
Sample Collecto							/Work Station/		ara to:	credit"	- <u>JU</u>	402	Jar	<u>S</u>
	Hic	k.						issociatez	$\frac{44}{10-02.32.00}$ Telephone Number (include area code) Telephone Number (include area code) Telephone Number (include area code)					
Property Owner			- <u></u>				rty Address	13500 10103			Teleph	one Numbe	r (include a	rea code)
Bobs	5.00)	_ F,	.]	~		1531	STH.70	Falun,	11. 5487			$\alpha q $	
Bobs Service - Falun							rainn,	VI JIO		Coccent by I	8 L-	<u> 115</u>		
I hereby co	ertify that I	received, pr	roperly	handled,	and disposed	of these sam	nples as noted l	below:			ORATOR	Y USE ON	LY	
Relinquished By	(Signature	2	Dat	e/Time		Rece	ived By (Signa	ture)	Temperature o					
	Kil	/	11	195	9AM				Temperature of temperature blank: @1023.00_					
Relinquished By	(Signature	:)	Dat	e/Time		Recei	ived By (Signa							u may report the
/			11.	1-199	-102		920m		temperature as					e temperature
Relinquished By	(Signature	;)	Dat	e/Time			ived for Labora	atory By (Signature)	of the melt may	y be substituted	l for a temp	erature blar	ık.	
			-1/	7170		Sit	<u>M</u>							
Field ID	Date	Time		nplè	Preserv.	Field		Analysis	Lab ID	No./Type of		Improperly		Other
Number ¹	Collected		Type 2	Devich ³		Screening	Description	Туре	Number	Containers	/Broken	Sealed	Condition	Comments
W-1,5-3		92CAM		3Beri	Meth.	0,3	3-60 ml :10		114000					
W.15.5		Y JOAM	11	11	• • •		11		THOUT					
2,5-1		1025AM		11		525	2-60 pl vist	1- cup 11	110003					
2 5-6	11	1050 AM	**			30			114093					
3-3.5.4		1135 AM				16	11	+ /	114094					
1-3, 5-5		1140 AM				14			110002					
8-4,5-4		1235 AM				0	11	11	110000					
3-4,5-5		12 40 AM				0	11		LINGUL					
2.5.5.7	11	1	11	"	11				114098					
3-5, 5-8		125PM				0	61	11	TIMUTY					
3-5 5-5	14	130 PM	17	11	1	<u> </u>			1114099					
Arthanel							1.60 ml	LRÓ	6011411					
Biank	4	-	—	-	~		Vial		1 1 2 2					
11	11	-		-	-		5.	VOCS	N/					
w-1	IC/30/15	275 PM	WIJU	beiler	HEL		4- 40 ml V.	LGRO, VOCS	11111001					
ip Blank	~		-	-			1-40 ml V.	els	7719703					
1	• .• .	.1. 1	-1-1 14	1-	ID to the sec	nalian longti	on chown on a	3 _{Turne of ear}	alian devices en	literaan haad		al anatula a		et e
						uhung iocano	on shown on a	map. Type of sam	pling device; sp	m spoon, nand	auger, met	ai spatula, s	on syringe,	510.
² Specify grour								·····						
	DEPA	RTMENT	USE/OI	TIONA	L FOR SOIL	SAMPLERS	5		<u> </u>	EPARTMENT	USE ONL	<u>.Y</u>		
isposition of un	used portio	on of sample	;							Π				
								Split sample	es: Offered?	Yes	L No	(Check of	ne)	
Laboratory	/ should:	Dispo	se		L Retain	n for <u> </u> da	iys				—			
					Other				Accepted	1? 🗌 Yes	Ll No	(Check or	ne)	
		Return	1				~~^	A 1D						
							DD	Accepted B	y:		c:al			

APPENDIX E

GROUND WATER ANALYTICAL RESULTS



Page:15

Client I.D. No.: LA200000173 Work Order No.: 9511000033 Report Date: 11/27/95 Date Received: 11/01/95 Arrival Temperature: On Ice

AYRES ASSOCIATES TERRI HAZELTON 3433 OAKWOOD HILLS PKWY. EAU CLAIRE, WI 54702

Project Name: BOB'S SERVICE

Project Number: 10-0232.00

Sample <u>I.D. #:</u> 114100	Sample ´ <u>Description:</u> MeOH BLANK		Da	te Sampled	<u>1:</u> 10/30/95
Analvte		Result	<u>Units</u>	LOD	<u>LOQ</u>
1,2-Dibromo-3-c 1,2-Dibromoetha 1,2-Dichloroben: 1,3-Dichloroben: Dichlorodifluoro 1,1-Dichloroetha 1,2-Dichloroetha 1,1-Dichloroetha 1,1-Dichloroetha 1,2-Dichloroprop 1,3-Dichloroprop 2,2-Dichloroprop 2,2-Dichloroprop Diisopropyl ethe Ethylbenzene Hexachlorobutad Isopropylbenzen p-Isopropyltolue Methylene chlor Methyl-tert-buty Naphthalene n-Propylbenzene 1,2,3-Trichlorob 1,2,4-Trichlorob 1,1,2-Trichloroe 1,1,2-Trichloroe 1,2,4-Trinethyll 1,3,5-Trimethyll Vinyl chloride m&p-Xylene o-Xylene	ne (EDB) zene zene zene methane ne ne ethene roethene pane pane pane pane r diene e ne ide (Dichloromethane) l ether e proethane ne e ne ide (Dichloromethane) l ether e ne enzene enzene enzene enzene enzene thane thane methane	< 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025 < 0.	mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm	0.010 0.010 0.010 0.010 0.010 0.020 0.010 0.020 0	0.033 0.033 0.033 0.033 0.033 0.067 0.033 0.067 0.033 0.033 0.033 0.033 0.033 0.050 0.033 0.050 0.033 0.050 0.033 0.050 0.033 0.050 0.033 0.050 0.033 0.050 0.033 0.067 0.033 0.067 0.067 0.067 0.033 0.067 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07
<u>I.D. #:</u> 114101	$\frac{\text{Description:}}{\text{W-1}} = B/W - I$	Decult		ate Sample	
Analvte		<u>Result</u>	<u>Units</u>	LOD	LOQ
Gasoline Range Analysis Date G	Organics-WDNR Modified GRO RO	<50 11/04/95	ug/L	50	170
Benzene Bromobenzene Bromodichloror		<0.2 <0.2 <0.2	ug/L ug/L ug/L	0.2 0.2 0.2	0.7 0.7 0.7



Page:16

Client I.D. No.: LA200000173 Work Order No.: 9511000033 **Report Date:** 11/27/95 Date Received: 11/01/95 Arrival Temperature: On Ice

Project Number: 10-0232.00

AYRES ASSOCIATES TERRI HAZELTON 3433 OAKWOOD HILLS PKWY. EAU CLAIRE, WI 54702

Project Name: BOB'S SERVICE

Sample <u>I.D. #:</u>114101 Sample Description:W-1

I.D. #:114101 Description: W-1		D	ate Sample	ed:10/30/95
Analyte	<u>Result</u>	<u>Units</u>	LOD	LOQ
n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon tetrachloride Chlorobenzene Chlorothane 2-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB) 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene trans-1,2-Dichloropthene trans-1,2-Dichloropthene trans-1,2-Dichloropthene trans-1,2-Dichloropthene 1,3-Dichloropropane 2,2-Dichloropropane 2,2-Dichloropropane Diisopropyl ether Ethylbenzene Hexachlorobutadiene Isopropylbenzene p-Isopropyltoluene Methyl-tert-butyl ether Naphthalene n-Propylbenzene 1,1,2,2-Tetrachloroethane Tetrachloroethene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,1,2-Trichloroethane 1,1,2-Trichloroethane Trichlorofluoromethane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene 1,3,5-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl chloride m&p-Xylene o-Xylene	$\begin{array}{c} < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.3 \\ < 0.2 \\ < 0.3 \\ < 0.2 \\ < 0.3 \\ < 0.2 \\ < 0.3 \\ < 0.2 \\ < 0.3 \\ < 0.2 \\ < 0.2 \\ < 0.3 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\$	ugugugugugugugugugugugugugugugugugugug	$\begin{array}{c} 0.2\\ 0.2\\ 0.2\\ 0.2\\ 0.2\\ 0.2\\ 1.0\\ 0.2\\ 1.1\\ 0.3\\ 0.2\\ 0.2\\ 0.3\\ 0.2\\ 0.2\\ 0.3\\ 0.2\\ 0.2\\ 0.3\\ 0.2\\ 0.2\\ 0.3\\ 0.2\\ 0.2\\ 0.2\\ 0.2\\ 0.2\\ 0.2\\ 0.2\\ 0.2$	0.7 0.7 0.7 0.7 0.7 0.7 3.3 0.7 3.7 1.0 0.7 0.7 1.0 0.7



Page:17

Client I.D. No.: LA2000000173 Work Order No.: 9511000033 Report Date: 11/27/95 Date Received: 11/01/95 Arrival Temperature: On Ice

AYRES ASSOCIATES TERRI HAZELTON 3433 OAKWOOD HILLS PKWY. EAU CLAIRE, WI 54702

Project Name: BOB'S SERVICE

Project Number: 10-0232.00

Sample <u>I.D. #:</u> 114101	Sample <u>Description:</u> W-1		D	ate Sample	ed:10/30/95
Analyte		<u>Result</u>	<u>Units</u>	LOD	LOQ
Analysis Date V Analysis Method	OC's	11/03/95 8021			
Sample <u>I.D. #:</u> 114102	Sample <u>Description:</u> TRIP BLANK		D	ate Sample	ed:10/30/95
<u>Analyte</u>		<u>Result</u>	<u>Units</u>	LOD	LOQ
Gasoline Range Analysis Date G Benzene Bromobenzene Bromodichlorom n-Butylbenzene sec-Butylbenzene carbon tetrachlo Chlorobenzene Chlorothane Chlorothane 2-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 1,2-Dibromo-3-0 1,2-Dibromoetha 1,2-Dichloroben 1,3-Dichloroben 1,3-Dichloroben 1,1-Dichloroetha 1,2-Dichloroetha 1,2-Dichloroetha 1,2-Dichloroetha 1,2-Dichloroetha 1,2-Dichloroetha 1,2-Dichloroetha 1,2-Dichloroetha	nethane e nethane hitopropane ane (EDB) zene zene zene zene ane ane ane ane ane ane ane ene	<pre><50 11/04/95 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2</pre>	ug/L ug/L/L/L/L/L/L/L/L/L/L/L/L/L/L/L/L/L/L/L	50 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.	170 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 3.3 0.7 3.3 0.7 3.7 1.0 0.7 0.7 0.7 1.0 0.7 0.7 0.7 1.0 1.7 0.7
trans-1,2-Dichlo 1,2-Dichloropro 1,3-Dichloropro 2,2-Dichloropro Diisopropyl ethe Ethylbenzene Hexachlorobuta Isopropylbenzer p-Isopropylbenzer Methylene chlor Methyl-tert-buty Naphthalene n-Propylbenzen 1,1,2,2-Tetrachl	<0.3 <0.2 <0.4 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <1.1 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	$\begin{array}{c} 0.3 \\ 0.2 \\ 0.4 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.3 \\ 0.2 \\ 0.2 \\ 1.1 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \end{array}$	$ \begin{array}{c} 1.0\\ 0.7\\ 1.3\\ 0.7\\ 0.7\\ 0.7\\ 1.0\\ 0.7\\ 0.7\\ 0.7\\ 0.7\\ 0.7\\ 0.7\\ 0.7\\ 0$	



Page:18

Client I.D. No.: LA200000173 Work Order No.: 9511000033 **Report Date:** 11/27/95 Date Received: 11/01/95 Arrival Temperature: On Ice

AYRES ASSOCIATES TERRI HAZELTON 3433 OAKWOOD HILLS PKWY. EAU CLAIRE, WI 54702

Project Name: BOB'S SERVICE

Project Number: 10-0232.00

Sample Sample <u>I.D. #:</u> 114102 <u>Description:</u> TRIP BLANK		Ī	Date Sample	ed:10/30/95
Analyte	<u>Result</u>	<u>Units</u>	LOD	LOQ
Tetrachloroethene Toluene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Trichlorofluoromethane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl chloride m&p-Xylene o-Xylene Analysis Date VOC's Analysis Method	<0.4 <0.2 <0.2 <0.3 <1.0 <0.3 <0.6 <0.3 <0.2 <0.5 <0.4 <0.2 11/04/95 8021	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	0.4 0.2 0.2 0.3 1.0 0.3 0.6 0.3 0.2 0.5 0.4 0.2	1.3 0.7 0.7 1.0 3.3 1.0 2.0 1.0 0.7 1.7 1.3 0.7

Comments for entire Work Order: None

.

Submitted By:

St. : . of Wisconsin Department of Natural Resources

CHAIN OF CUSTOD	Y RECORD
LUST PROGRAM	
Form 4400-151	Rev 4-93



Note: Use of th										-					Printed on Recycled Paper
NR 158 and NF		Adm. Code	e. Perso	onally ide	ntifiable info				sc. Rit	urn for 1	Credit	- 30	402	Jars	
Sample Collecto		1				Title	/Work Station/	Company	,			Teleph	ione Numbe	r (include are	a code)
Vin	Hic	ts.					yres A	ISSOC 1	ates	#10-	0535.0	0 7	715 8	534 3	161
Property Owner)	F)			eny Address		-			Teleph	one Numbe	er (include are	a code)
Bobs	Seri	vice	- 10	<u>a I n</u>	<u>~</u>	10	1531	STH	1.70	Falun,	N, 5487	2 7	15 6	89 2.4 aboratory	45
I hereby c	crtify that I	received, p	roperly	handled,	and disposed	l of these sam	nples as noted b	elow:	,		Sample Co	ndition on H	Receipt by I Y USE ON	aboratory	
Redinquished By (Signature) Date/Time Received By (Signature)					Temperature o										
yim,	Kil	سما		195	TAM					1 cmperature o	t emperature i	141 K , <u>SP 1</u>	<u></u> @_		
Relinquished By	y (Signature	e)		e/Time			ived By (Signa		10	If samples were	e received on i	ce and there	e was ice re	maining, you	may report the
V			11-	1199	-102		gila		Y	temperature as	"received on i	ce". If all c	f the ice wa	is melted, the	temperature
Relinquished By	y (Signature	e)	Dat	e/Time			ived for Labora	tory By (Si	gnature)	of the melt may	y be substituted	l for a temp	erature bla	ık.	
			$ \rangle $	11/0	15-21	58.5	J.C.								
Field ID	Date	Time	San	nplè	Preserv.	Field		Anal	ysis	Lab ID	No./Type of	Cracked	Improperly	Good	Other
Number ¹	Collected	Collected 92¢AM	Type 2	Device3	Туре	Screening	Description	Ту	pe	Number	Containers	/Broken	Sealed	Condition	Comments
	10/30/95	92CAM		Speri	Meth.		3-60 ml via	s. 1-cup	GRO, VOC	1/4090					
B/W-15-5		YJOAM	11	11	67	• ;	17		14	NUOAL					
B-2, 5-1	11	1025AM	11	11		525		1- 640	11	114003					
B-2, S-6	11	1050 AM	• •	• •	• •	30	£ .		• •	114093					
8-3.5-4		1135AM	11			16	6.			1140901					
<u>B-3, S-5</u>	/ 1	114CAM	i)	••	11	14	- 17		• •	114095					<u></u>
B-4,5-4		1235 AM		"		0	11		11	114096					
<u>B-4,5-5</u>	· 1	1240 AM	11	11		0	11		• •	LINGOL					
4	"			"		0			11						
<u>B-5 5-</u>		125PM	11							117035					
B-5 5-5	i.		11		4	0			11	1111000					
Mathanal		130 PM							200	1114090					
Biant	4	-		-	~	·~	Vicil	(-RÓ	ILAIOD					
"							11		QCs						<u></u>
								V	Qus	V					
W-1	10/30/75	245 PM	Waltr	baile	HCL		4- 40 ml V.	L GRO	VOCS	1141001					
Trio Blank	-	-	١	-	-	1	1-40 ml V.	els	14	110102					
1					ID to the sec			3,						., .	
•	•	•		-		npling locallo	on shown on a	map.	l ype of san	npling device; spl	lit spoon, hand	auger, met	al spatula, s	ioil syringe, e	lc.
² Specify groun															······
<u>معر معرفة المعرفة الم</u>	DEPA	RTMENT	USE/OF	TIONA	L FOR SOIL	SAMPLERS	j			- D	EPARTMEN	<u>USE ONL</u>	.Y		
Disposition of un	nused portio	on of sample	:									_			
		—							Split sample	es: Offered?	Yes	📙 No	(Check o	ne)	
Laboratory	Laboratory should: Dispose Retain for days								·· □ ··		(a)				
		Return	n		Other					Accepted	1? 🗌 Yes	L No	(Check o	ne)	
			-				ĎĎ		Accorded D						
								'	necepied B	y:		Signat	ure		

APPENDIX F

MONITORING WELL CONSTRUCTION AND DEVELOPMENT FORMS

State of Wisconsin <u>Route to:</u> S Department of Natural Resources Env. Response	olid WasteHaz. Waste Wastewater & Repair Underground Tanks Othe	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 4-90
Facility /Project Name	Local Grid Location of Well	Well Name
BOB'S SERVICE STATION	ftNE ftSftW	
Facility License, Permit or Monitoring Number	Grid Origin Location	Wis. Unique Well Number DNR Well Number
	Lat. Long. o	
Type of Well Water Table Observation Well 11	St. Plane ft. N ft.E	
VAPOR Piezometer 12	Section Location of Waste/Source	Date Well Installed 10/30/95
Distance Well Is From Waste/Source Boundary		
ft.	NW 1/4 of NW 1/4, Sec 19, T38N, R17W	-
Is Well A Point of Enforcement Std. Application? Yes X No	Location of Well Relative to Waste/Source u X Upgradient s Sidegradient	GARY WELNER
	d Downgradient n Not Known	MIDWEST ENGINEERING SERVICES
A. Protective Pipe, top elevation N.A. ft. MSL		Cap and Lock? Ye X No
B. Well casing, top elevation 98.67 ft. MSL		rotective cover pipe:
C. Land surface elevaton 98.20 ft. MSL - D. Surface seal, bottom N.A. ft. MSL or		. Inside diameter: N.A. in. . Length: N.A. ft.
12. USCS classification of soil near screen:	с	. Material: Steel 04
GPGMGCGWSWSP		Other
	• / / d	Additional protection? Yes No
Bedrock 13. Sieve analysis attached? Yes X No		If yes, describe
14. Drilling method used: Rotary 50		Concrete 01
Hollow Stem Auger X 41		N.A. Other X
Other	\\4. №	Material between well casing and protective pipe:
15. Drilling fluid use Air 01 Water 02		Bentonite 30
Drilling Mud 03 None X 99		Annular Space Seal
		N.A. Other X
16. Drilling additives used? Ye X No	5. A	Annular space seal: a. Granular Bentonite 33 . Lbs/gal mud weigl 3 eptonite-sand slurry 35
Describe	c	Lbs/gal mud weightBentaaite slurry 31
17. Source of water (attach analysis):	d e	. % BentoniteBentonite-cement grout 50 cubic ft volume added for any of the above
	f	. How installed: Tremie 01
		Tremie pumped 02
E. Bentonite seal, to N.A. ft. MSL or ft.		Gravity08 Rentonite seal: a. Bentonite granules 33
E. Bentonite seal, to <u>N.A.</u> ft. MSL <u>or ft.</u>		lentonite seal: a. Bentonite granules 33 1. 1/4in. 3/8in. 1/2in. Bentonite Pellets 32
F. Fine sand, top <u>N.A.</u> ft. MSL or <u>ft.</u>	c	2400000
G. Filter pack, top 96.00 ft. MSL or 2.00 ft.	304000000000000000000000000000000000000	ine sand material: Manufacturer, product name and mesh size
		. Volume Added
H. Screen joint, top 98.20 ft. MSL or 0.00 ft.		ilter pack material: Manufacturer, product name and mesh size
I. Well bottom 88.20 ft. MSL or 10.00 ft.		. AMERICAN MATERIALS #30
		Vell casing: Flush threaded PVC schedule 40 X 23
J. Filter pack, botto 83.70 ft. MSL or 14.50 ft.		Flush threaded PVC schedule 80 24
		Other
K. Borehole, bottom 83.70 ft. MSL or 14.50 ft.		Screen material: Screen type: Factory cut X 11
L. Borehole, diamet 8.0 in	a a a a a a a a a a a a a a a a a a a	A. Screen type: Factory cut X 11 Continuous slot 01
		. ManufacturerOther
M. O.D. well casing 2.37 in		. Slot size:0.010 in.
N. I.D. well casing 2.06 in		I. Slotted length: 10.0 ft.
Note: Elevations are based on assume		Backfill Material (below filter pack): None 14 AMERICAN MATERIALS #30 Other X
I hereby certify that the information on this form	is true and correct to the best of my kr	nowledge.
Signature D Cr	Firm	
Please complete both sides of this form and return to the	he appropriate DNR office listed at the top of the	(RES ASSOCIATES his form as required by chs. 144, 147, and 160, Wis. Stats.,
and ch. NR 141, Wis, Ad, Code. In accordance with cl	h, 144, Wis Stats., failure to file this form may	result in a forfeiture of not less than \$10, nor more than γ result in a forfeiture of not more than \$10,000 for each
day of violation. NOTE: Shaded areas are for DNR use	only. See instruction for more information inc	luding where the completed form should be sent.

State of Wisconsin Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-13B

	Project Name		County Name		Well Name	
	Service Station			Burnett		W- 1
License/	Permit/Monitoring Number		County Code	Wisconsin Unique Well Nu	mber	DNR Well Number
			7			
1. Ca	in this well be purged dry?	_X	Yes No	11. Depth to Water (from top of	Before Development	After Development
2. W	ell Development method			well casing)	2.00	
	surged with bailer and bailed	X	41			
	surged with bailer and pumped		61	Date	10/30/95	10/30/95
	surged with block and bailed		42			
	surged with block and pumped		62		mm dd yy	mm dd yy
	surged with block, bailed and p	oumped	70			
	compressed air		20	Time	a.m.	a.m.
	bailed only		10		2:00 p.m.	2:30 p.m.
	pumped only		- 51			· ·
	pumped slowly		50	12. Sediment in well	0.00 inches	0.00 inches
	Other			bottom		
				13. Water clarity	Clear	Clear
3.	Time spent developing well		30 min.		Turbid	Turbid
					Describe	Describe
4.	Depth of well (from top of well	l casing)	10.0 ft.			
					See Additional	Comments Below
5.	Inside diameter of well		in.			
6.	Volume of water in filter pack	and well	gal.			
			·			
7.	Volume of water removed from	n well	7 gal.	Fill in if drilling fluids	were used and well is at	solid waste facility
8.	Volume of water added (if any))	NA gal.		were used and wen is at	solid waste facility
9.	Source of water added	NA		 Total suspended solids 	mg/l	mg/l
				50145	iiig/i	iiig/i
10.	Analysis performed on water a (If yes, attach results)	dded?	Yes X No	15. COD	mg/l	mg/l
Addition	nal comments on development:					
ĺ		VOLUME				
		REMOVED (GAL)	ODOR	COLOR	TURBIDITY	COMMENTS
	-	5				
	-		None	Grey	High	Bailed dry @ 2:12
	-	2	None	Brn-Tan, Clear	Medium/Low	Bailed dry @ 2:30
	-					
	-					
	ŀ					
						·
w eil dev	veloped by: Person's Name and F	$\sqrt{1}$	1	I hereby certify that the above	information is true and correct	
Nome	James !	Rich	12-	to the best of my knowledge.	- A-	Phil
Name:	fame 1.	11000		Signature:	1.000	. crucin
Eire				Print Initials:	AYRES ASSOCIA	TES
Firm:	AYRES ASSOCIATES			Firm	ATRES ASSOCIA	

NOTE: Shaded areas are for DNR use only. See instructions for more information.

APPENDIX G

OPINIONS OF PROBABLE REMEDIATION COSTS

ALTERNATIVE 1 SOIL EXCAVATION WITH ASPHALT INCORPORATION

THIS ESTIMATE INCLUDES THE ENGINEERING, ANALYTICAL AND CONSTRUCTION COSTS ASSOCIATED WITH EXCAVATION OF CONTAMINATED SOIL, AND OFF-SITE ASPHALT INCORPORATION

1. ENGINEERING

ENGINEERING COSTS INCLUDES PROVISIONS FOR ENGINEERING DESIGN, CONSTRUCTION BID DOCUMENT PREPARATION AND CONSTRUCTION OBSERVATION.

PROJECT MANAGEMENT	\$ 1,400
STATE SUBMITTALS	\$ 1,700
PLANS & SPECS/BIDDING	\$ 5,000
PRE-CON. MEETING	\$ 1,000

TOTAL	\$ 15,300
DIRECT COSTS	\$ 900
CONSTRUCTION DOC.	\$ 3,600
CONSTRUCTION OBS.	\$ 1,700

2. CONSTRUCTION AND ANALYTICAL COSTS

COSTS OUTLINED IN THIS SECTION INCLUDE THE COSTS OF SOIL EXCAVATION, HAULING, DISPOSAL, ANALYTICAL COSTS, BACKFILL PURCHASE AND PLACEMENT, AND GROUND WATER PUMPING, HAULING, AND TREATING DURING EXCAVATION

CONSTRUCTION COSTS

CONTAM SOIL REMOVAL	\$ 4,500
TRANSPORTATION	\$ 3,400
ASPHALT INCORP.	\$ 17,500
CLEAN BACKFILL	\$ 2,900
LAWN REPLACEMENT	\$ 900
BASE COURSE REPLACE	\$ 100
EXCAVATION DEWATER	\$ 3,600
DIRECT COSTS	\$ 300
SUBTOTAL	\$ 33,200

ANALYTICAL COSTS

SOIL SAMPLING	\$ 3,300
SUBTOTAL	\$ 3,300

SUMMARY

CONSTRUCTION COSTS	\$ 33,200
ANALYTICAL COSTS	\$ 3,300
TOTAL	\$ 36,500

3. SITE CLOSURE

THIS SECTION INCLUDES ENGINEERING DOCUMENTATION COSTS ASSOCIATED WITH SITE CLOSURE

ENGINEERING CLOSURE COSTS

CLOSURE DOCUMENTS	3	1,000
PECFA CLAIM	5	500
TOTAL	\$	1,500

4. SUMMARY	YEAR 1
ENGINEERING DESIGN COSTS	\$ 15,300
CONSTRUCTION COSTS	\$ 33,200
CONSTRUCTION ANALYTICAL COSTS	\$ 3,300
SITE CLOSURE COSTS	\$ 1,500
TOTAL COSTS	\$ 53,300

PROJECT: BOB'S SERVICE STATION - FALUN, WI	PREPARED BY: JOSEPH F. HOEME, E.I.T.	DATE: 12/15/95
JOB NO.: 10-0232.00	CHECKED BY: JAN M. SMIT, P.E. JS	DATE: 4396

ALTERNATIVE 2 SOIL EXCAVATION WITH COMMERCIAL BIOPILE TREATMENT

THIS ESTIMATE INCLUDES THE ENGINEERING, ANALYTICAL AND CONSTRUCTION COSTS ASSOCIATED WITH EXCAVATION OF CONTAMINATED SOIL, AND COMMERCIAL BIOPILE TREATMENT

1. ENGINEERING

ENGINEERING COSTS INCLUDES PROVISIONS FOR ENGINEERING DESIGN, CONSTRUCTION BID DOCUMENT PREPARATION AND CONSTRUCTION OBSERVATION.

PROJECT MANAGEMENT	\$ 1,400
STATE SUBMITTALS	\$ 1,700
PLANS & SPECS/BIDDING	\$ 5,000
PRE-CON. MEETING	\$ 1,000

CONSTRUCTION OBS.	\$ 1,700
CONSTRUCTION DOC.	\$ 3,600
DIRECT COSTS	\$ 900
TOTAL	\$ 15,300

2. CONSTRUCTION AND ANALYTICAL COSTS

COSTS OUTLINED IN THIS SECTION INCLUDE THE COSTS OF SOIL EXCAVATION, HAULING, DISPOSAL, ANALYTICAL COSTS, BACKFILL PURCHASE AND PLACEMENT, AND GROUND WATER PUMPING, HAULING, AND TREATING DURING EXCAVATION

CONSTRUCTION COSTS

CONTAM SOIL REMOVAL	\$ 4,500
TRANSPORTATION	\$ 4,900
BIOPILE DISPOSAL	\$ 11,800
CLEAN BACKFILL	\$ 2,900
LAWN REPLACEMENT	\$ 900
BASE COURSE REPLACE	\$ 100
EXCAVATION DEWATER	\$ 3,600
DIRECT COSTS	\$ 300
SUBTOTAL	\$ 29,000

ANALYTICAL COSTS

SOIL SAMPLING	\$ 3,300
SUBTOTAL	\$ 3,300

SUMMARY

CONSTRUCTION COSTS	\$ 29,000
ANALYTICAL COSTS	\$ 3,300
TOTAL	\$ 32,300

3. SITE CLOSURE

THIS SECTION INCLUDES ENGINEERING DOCUMENTATION COSTS ASSOCIATED WITH SITE CLOSURE

ENGINEERING CLOSURE COSTS

CLOSURE DOCUMENTS	\$ 1,000
PECFA CLAIM	\$ 500
TOTAL	\$ 1,500

4. SUMMARY

ENGINEERING DESIGN COSTS	\$	15,300
CONSTRUCTION COSTS	\$	29,000
CONSTRUCTION ANALYTICAL COSTS	\$	3,300
SITE CLOSURE COSTS	\$	1,500
TOTAL COSTS	\$	49,100

PROJECT: BOB'S SERVICE STATION - FALUN, WI	PREPARED BY: JOSEPH F. HOEME, E.I.T.	DATE:	12/15/95
JOB NO.: 10-0232.00	CHECKED BY: JAN M. SMIT, P.E. JS	DATE:	413196

ALTERNATIVE 3 SOIL EXCAVATION WITH THERMAL DESORPTION

THIS ESTIMATE INCLUDES THE ENGINEERING, ANALYTICAL AND CONSTRUCTION COSTS ASSOCIATED WITH EXCAVATION OF CONTAMINATED SOIL, AND OFF-SITE THERMAL DESORPTION

1. ENGINEERING

ENGINEERING COSTS INCLUDES PROVISIONS FOR ENGINEERING DESIGN, CONSTRUCTION BID DOCUMENT PREPARATION AND CONSTRUCTION OBSERVATION.

PROJECT MANAGEMENT	\$ 1,400
STATE SUBMITTALS	\$ 1,700
PLANS & SPECS/BIDDING	\$ 5,000
PRE-CON. MEETING	\$ 1,000

CONSTRUCTION DOC.	\$ 3,600
DIRECT COSTS	\$ 900 15.300

2. CONSTRUCTION AND ANALYTICAL COSTS

COSTS OUTLINED IN THIS SECTION INCLUDE THE COSTS OF SOIL EXCAVATION, HAULING, DISPOSAL, ANALYTICAL COSTS, BACKFILL PURCHASE AND PLACEMENT, AND GROUND WATER PUMPING, HAULING, AND TREATING DURING EXCAVATION

CONSTRUCTION COSTS

CONTAM SOIL REMOVAL	\$ 4,500
TRANSPORTATION	\$ 4,600
THERMAL DESORPTION	\$ 19,700
CLEAN BACKFILL	\$ 2,900
LAWN REPLACEMENT	\$ 900
BASE COURSE REPLACE	\$ 100
EXCAVATION DEWATER	\$ 3,600
DIRECT COSTS	\$ 300
SUBTOTAL	\$ 36,600

ANALYTICAL COSTS

SOIL SAMPLING	\$	3,300
SUBTOTAL	1\$	3,300

SUMMARY

CONSTRUCTION COSTS	\$ 36,600
ANALYTICAL COSTS	\$ 3,300
TOTAL	\$ 39,900

3. SITE CLOSURE

THIS SECTION INCLUDES ENGINEERING DOCUMENTATION COSTS ASSOCIATED WITH SITE CLOSURE

ENGINEERING CLOSURE COSTS

PECFA CLAIM	\$ 500
PECFA CLAIM	\$ 500

4. SUMMARY

ENGINEERING DESIGN COSTS	\$	15,300
CONSTRUCTION COSTS	\$	36,600
CONSTRUCTION ANALYTICAL COSTS	\$	3,300
SITE CLOSURE COSTS	\$	1,500
TOTAL COSTS	\$	56,700

PROJECT: BOB'S SERVICE STATION - FALUN, WI	PREPARED BY: JOSEPH F. HOEME, E.I.T.	DATE:	12/15/95
JOB NO.: 10-0232.00	CHECKED BY: JAN M. SMIT, P.E. TS	DATE:	4396