PARAGON ELECTRIC COMPANY, INC.
606 Parkway Blvd., P.O. Box 28, Two Rivers, WI 54241
414-793-1161 Fax 414-793-3736 Telex 26-3450

April 22, 1991

Ms. Annette Weissbach
State of Wisconsin
Department of Natural Resources
1125 N. Military Avenue
Box 10448
Green Bay, Wisconsin 54307-0448

Dear Ms. Weissbach:

Enclosed is the report on possible soil and ground water contamination in the area of a mineral spirit underground tank (UGT) excavation.

At the time this UGT was removed possible soil contamination was suspected, therefore this study was conducted.

Your point of contact regarding this report at Paragon is Richard J. Lubenow, P.E.

Sincerely,

PARAGON ELECTRIC COMPANY, INC.

Richard J. Lubenow, P.E.
Manager Maitnenance & Facilities

Enclosure

SOILS AND GROUNDWATER ASSESSMENT FOR A 550 GALLON UNDERGROUND MINERAL SPIRITS STORAGE TANK

PREPARED FOR:
MR. RICHARD LUBENOW
PARAGON ELECTRIC
606 PARKWAY BOULEVARD
TWO RIVERS, WISCONSIN 54241

PREPARED BY:
CRAIG A. VARLAND
PROJECT MANAGER
SIGMA ENVIRONMENTAL SERVICES, INC.
9555 SOUTH HOWELL AVENUE
OAK CREEK, WISCONSIN 53154

PROJECT REFERENCE #TEW0374

MARCH 28, 1991

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I. INTRODUCTION

Sigma Environmental Services, Inc. (formerly known as CBC Environmental Services) of Oak Creek, Wisconsin, has been retained by Mr. Richard Lubenow to conduct a subsurface investigation at 606 Parkway Boulevard in Two Rivers, Wisconsin. The purpose of the investigation was to determine general soil and groundwater quality on the perimeter of a former underground mineral spirits storage tank located at the property. This report details the work conducted at the site and results of the investigation.

II. SITE DESCRIPTION

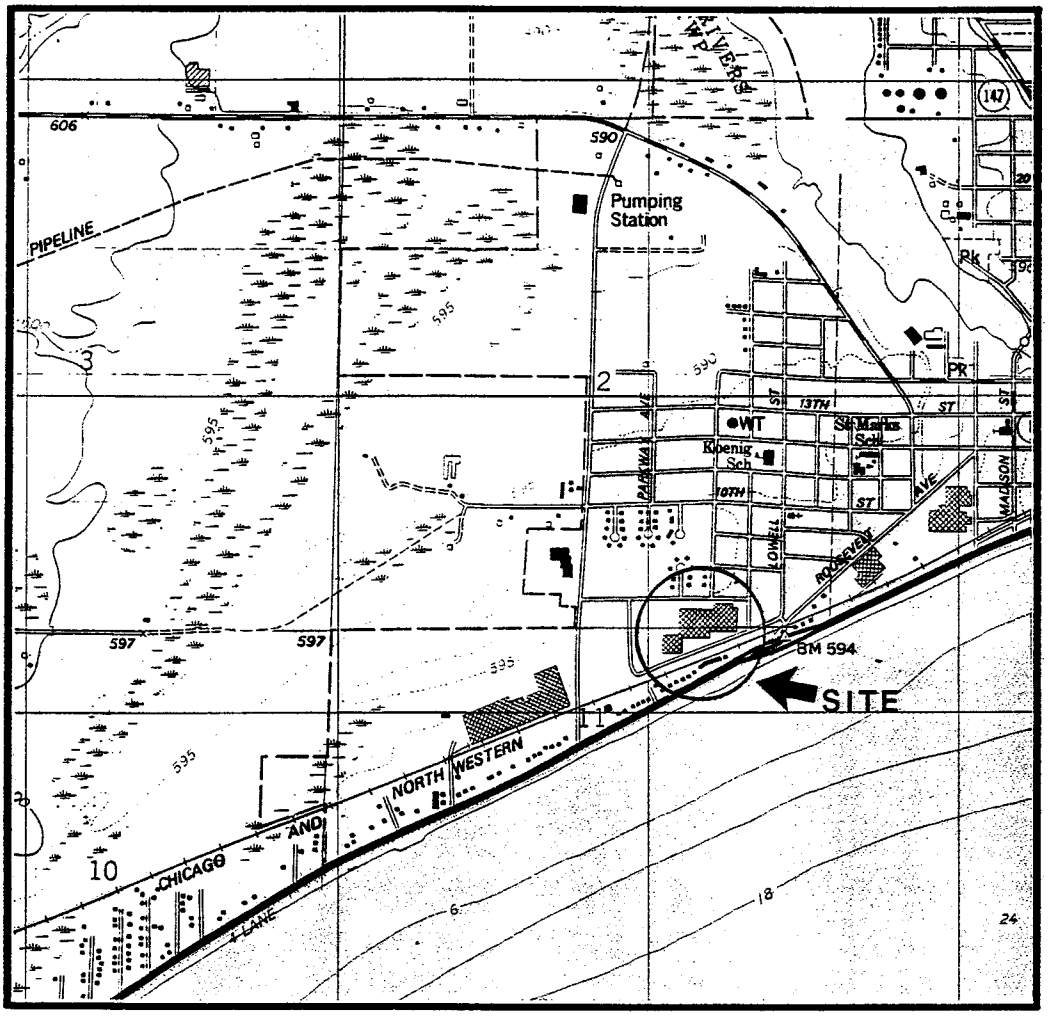
The subject property is located at 606 Parkway Boulevard, Two Rivers, Wisconsin. Specifically, the property is located in the Southwest quarter of the Northeast quarter of Section 2, Township 19 North, Range 24 east, City of Two Rivers, Manitowoc County, Wisconsin. The location of the site is depicted in Figure 1.

The property occupies 26.77 acres of land and contains a large manufacturing facility and offices. The western portion is bordered by a parking lot. The north and east sides of the facility are bordered by 7th Street and Bucholz Street, respectively. Lake Michigan is located approximately one-eighth mile south of the site.

III. PREVIOUS WORK

Previous work conducted at the site included the removal of a 550 gallon underground mineral spirits storage tank located inside the Paragon Facility near the truck dock area.

Autoquip, Incorporated of Milwaukee, Wisconsin was contracted by Sigma Environmental Services (formerly CBC Environmental Services) to perform the tank removal. Confirmational samples collected within the tank excavation



Approximate Scale

0 1 Mile

Figure 1

SITELOCATION MAP

Paragon Electric Company, Inc.
Two Rivers, Wisconsin

North

Adapted from U.S.G.S. 7.5 Minute Series, Two Rivers Quadrangle

revealed concentrations of petroleum hydrocarbons of 180 ppm (parts per million) and 79 ppm from the east and west base samples, respectively.

IV. SUBSURFACE INVESTIGATION

Work conducted at the site during this portion of the investigation included drilling profile soil borings, installing groundwater monitoring wells, and submitting soil and groundwater samples for laboratory analysis.

Soil Borings. During this phase of this field study, three (3) soil borings were drilled near the former mineral spirits tank excavation. The locations of these borings are depicted in Figure 2. A diamond-tipped core barrel was utilized to cut a ten inch (10") diameter hole in the floor of the building. A General$_{(TM)}$ 550 drill rig was used to advance 2-1/4" I.D. x 2.5' length hollow stem augers. A 2" x 6" core sampler was driven by a slide hammer to collect soil samples. The borings were limited to total depths of 10.1 to 10.9 feet due to heaving sands encountered at the groundwater table. All borings were drilled on December 27, 1990, by Giles Engineering of Waukesha, Wisconsin. Boring logs are presented in Appendix A.

During advancement of the augers, core samplers were used to collect soil samples at various intervals. Two (2) samples were collected at each interval; one (1) sample was immediately containerized into a glass jar, sealed with a teflon-lined cap and placed into a cooler. The other sample was also containerized into a glass jar, sealed and allowed to warm-up for a period of approximately twenty (20) minutes. This sample was screened for volatile organic compounds utilizing a Photovac$_{(TM)}$ Microtip Photoionization Detector (PID) instrument. The PID utilized an 11.7 eV (electron volt) lamp and was field calibrated to an isobutylene standard. PID results are included with the boring logs in Appendix A. One (1) sample from each boring displaying the highest PID value was accompanied with a Chain-of-Custody document and transported to the CBC Environmental

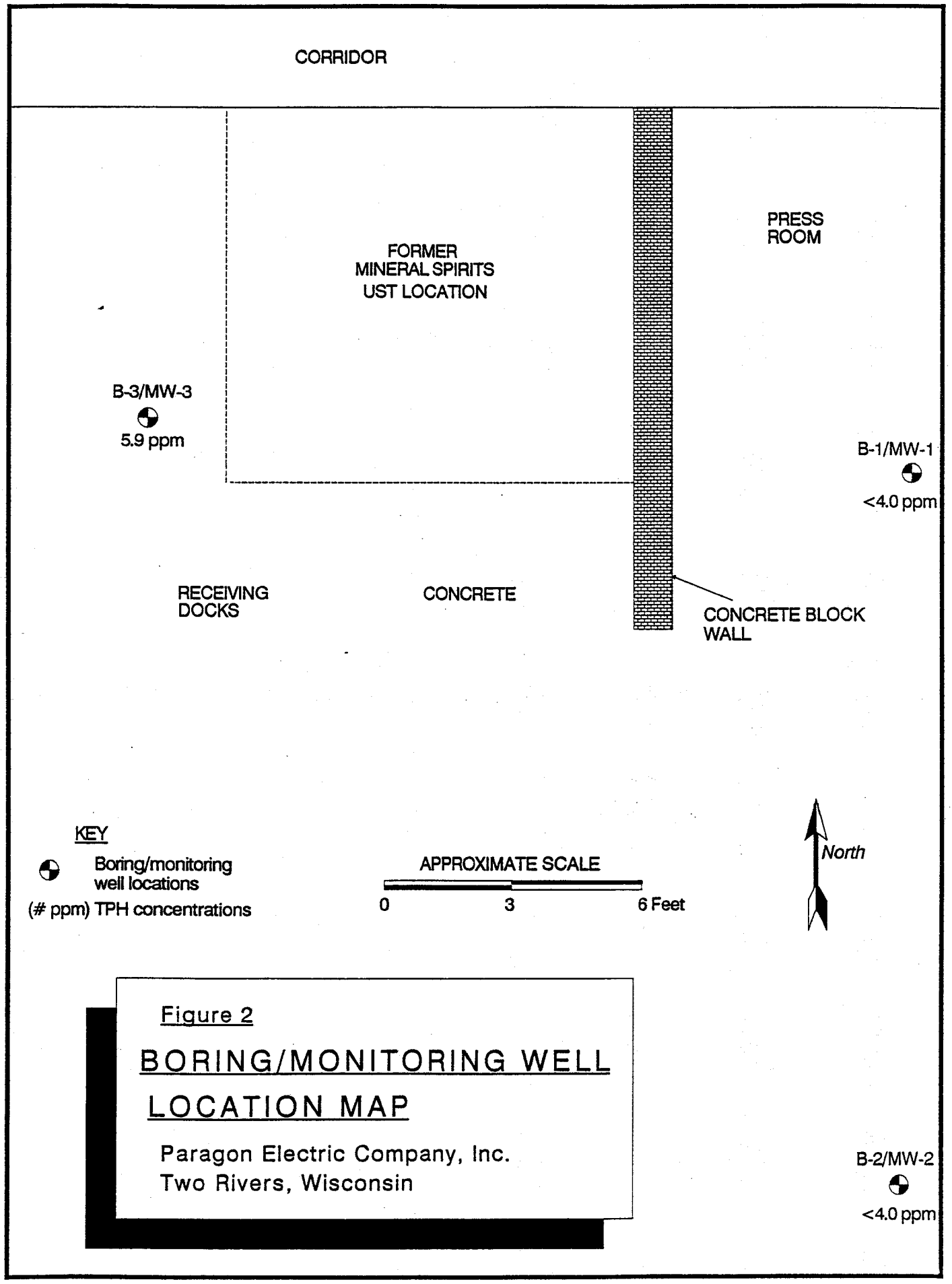


Figure 2

BORING/MONITORING WELL LOCATION MAP

Paragon Electric Company, Inc.
Two Rivers, Wisconsin

Services Laboratory in Oak Creek, Wisconsin, for analysis of Total Petroleum Hydrocarbons (TPH).

All downhole drilling equipment (augers, sampler extensions, and core samplers) were steam cleaned prior to mobilization to the site and between borings. Between each boring the core samplers were rinsed with hexane and triple rinsed with deionized water. In addition, the split-spoon samplers were washed with an alconox soap solution and a final tap water rinse between each sample interval.

Monitoring Wells. Three (3) groundwater monitoring wells were installed in the boreholes following completion. Monitoring well locations are shown in Figure 2. The monitoring wells were constructed of 1-1/4" I.D. (inside diameter) threaded casing and double walled .020" stainless steel mesh screen. Well construction logs are presented in Appendix B.

Groundwater Sampling Program. The three (3) groundwater monitoring wells were developed on January 18, 1991 by Sigma field technicians per Wisconsin Department of Natural Resources (WDNR) guidelines (NR 140). Well development forms are presented as Appendix C.

Following well development, the wells were purged and sampled according to Sigma standard sampling protocol (adopted from WDNR Pub.-WR-153, February 1987). Four (4) 40 milliliter vials were collected from each well and submitted with one (1) set of duplicate samples, trip, and field blanks, to the CBC Laboratory for analysis of priority pollutant volatile organic compounds plus xylene.

Static Water Level Measurements. Static water level measurements were collected at the site as a means to determine direction of groundwater flow. A tabulated listing of water level measurements is found in Appendix D.

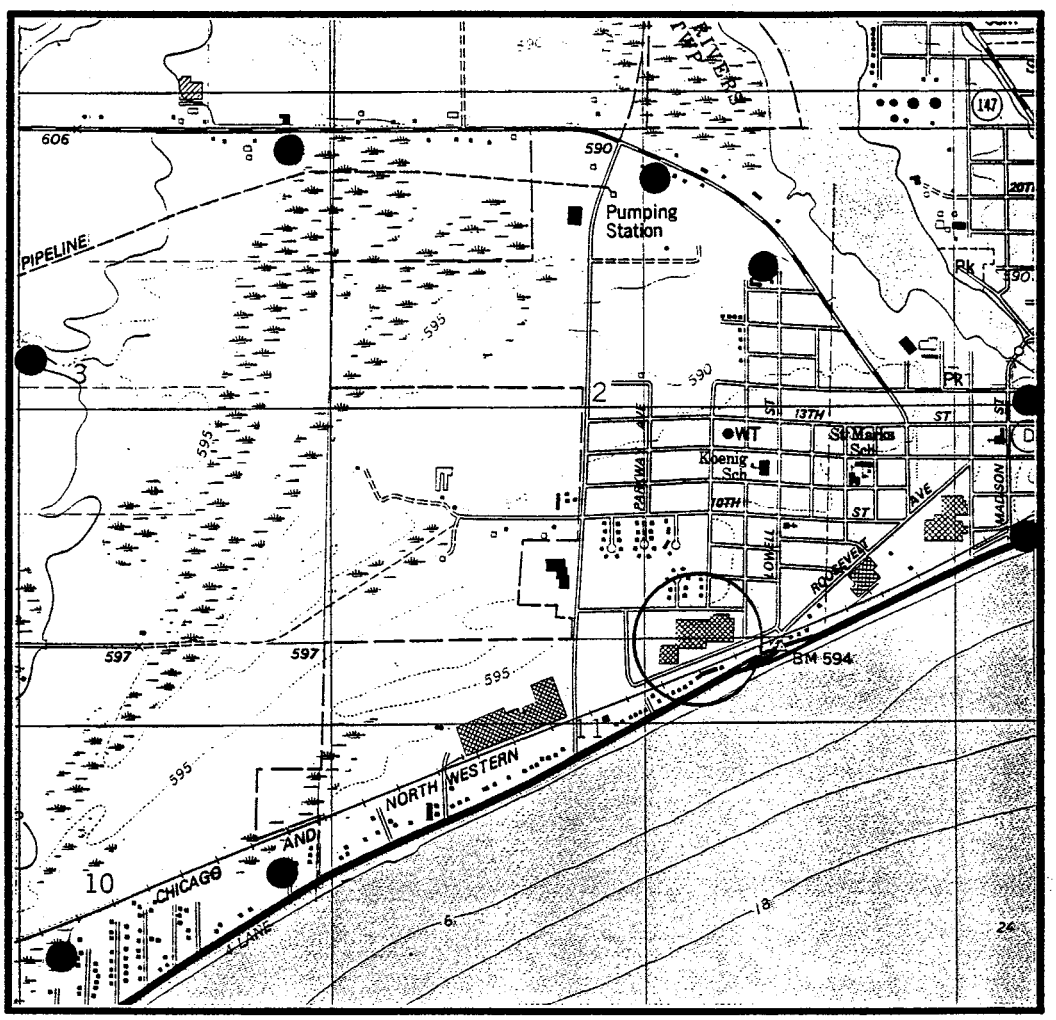
V. SITE GEOLOGY AND HYDROGEOLOGY

Geology. The regional geology of the area ranges from the Precambrian basement rock to the quaternary glacial deposits. Bedrock, from oldest to youngest, consists of the Precambrian crystalline rocks: Cambrian sandstones; Ordovician dolomites, sandstones and shales; Silurian dolomite; and Devonian dolomites. Quaternary glacial deposits overlying the bedrock are mostly lake deposits consisting of organic materials and stratified clay, silts, and sand.

Geology at the site consists essentially of silty fine sands with traces of small gravel and organic material.

Hydrogeology. The principal aquifers for potable water in the Two Rivers area are: the sands and gravel (glacial aquifer); the Niagara (dolomites) and the deep sandstone aquifer. The Maquoketa shale separates the Niagara and sandstone aquifers and presents a relatively impermeable barrier restricting the vertical movement of groundwater between the aquifers.

Well logs of Sections 1, 2, 3, and 10 indicate well construction locally is primarily in the Niagaran Dolomite aquifer. Two (2) of the domestic wells were completed in the glacial aquifer. One (1) municipal well was completed in the sandstone aquifer. In general, the well records show that the predominant upper materials are sands with clays encountered at depths of ten (10) to sixty-eight (68) feet below ground surface. Wells researched ranged in total depths from 97 to 1640 feet. A list of well records researched as part of this investigation are presented in Appendix E. Figure 3 depicts the location of selected wells researched, relative to the site.



Approximate Scale

0 1 Mile

FIGURE 3

WATER WELL LOCATION MAP

Paragon Electric Company, Inc.
Two Rivers, Wisconsin

North

Adapted from U.S.G.S. 7.5 Minute Series, Two Rivers Quadrangle

Localized variations in groundwater flow may occur beneath the Paragon facility due to man-made alterations in the shallow subsurface. The existence of sewer pipelines, utility conduits and foundation footings may alter groundwater flow on a site-specific basis. Groundwater will flow along the path of least resistance such as gravel backfills in sewer and utility mains. Thus, groundwater flowing beneath the facility may be diverted along these mains.

General groundwater flow at the site, as measured by the monitoring wells, is south-southeast in direction. Static water levels at the site are less than ten (10) feet below ground surface.

VI. REGULATIONS

Soil. The State of Wisconsin has not established standards for the levels of contaminants detected in soil. The Wisconsin Department of Natural Resources (WDNR) evaluates each situation separately to determine if the existence of contaminants in soils will have an adverse affect on the groundwater or otherwise on the environment and public health. The WDNR has stated that corrective action is required if the level of Total Petroleum Hydrocarbons in soils is above 10 ppm (parts per million). Samples collected from the three (3) borings near the former tank location did not exceed the standard.

Groundwater. The State of Wisconsin has established groundwater quality standards for contaminants detected in or having a reasonable probability of entering the groundwater resources of the state. The standards are found in Chapter NR 140 of the Wisconsin Administrative Code. Samples collected from MW-1, MW-2 and MW-3 exceed the established standards for trichloroethylene and vinyl chloride. Table 2 summarizes the standards that the State of Wisconsin has established for groundwater quality.

VII. SOIL QUALITY

Soil Quality Results. Core samples collected at the site were field screened for the presence of volatile organic compounds having ionization potentials equal to or less than 11.7 eV (electron volts) by means of a head space analysis using a Photovac$_{(TM)}$ Microtip Photoionization Detector (PID) instrument. Results of the soil screening are shown in the boring logs at Appendix A. One (1) sample from each boring was submitted to the CBC Environmental Services Laboratory for analysis of Total Petroleum Hydrocarbons (TPH).

Laboratory analysis of the samples from borings B-1 and B-2 revealed no detectable concentrations of the compounds analyzed. The sample from boring B-3 revealed a TPH concentration of 5.9 ppm (parts per million). Table 1 presents the soil quality results of the samples analyzed.

TABLE 1

SOIL QUALITY RESULTS

Location	Sample Depth Below Surface	PID Results (ppm)	Laboratory Results TPH (ppm)
B-1	7 - 7.6'	50	<4.0
B-2	2.5 - 3.1'	24	<4.0
B-3	6.6 - 7.2'	90	5.9

ppm = parts per million

Appendix F presents the laboratory results for the samples submitted.

VIII. GROUNDWATER QUALITY

Groundwater Quality Results. The groundwater quality study included the sampling of the monitoring wells installed at the site. As stated previously, the monitoring wells were developed following installation. On January 18, 1991,

water levels were measured and the wells purged and sampled. Four (4) 40 milliliter vials were collected from each well.

Water samples were placed into a cooler and accompanied by a Chain-of-Custody document to the CBC Laboratory for analysis of priority pollutant volatile organic compounds and xylene. Laboratory results of groundwater revealed the following: **MW-1** - detectable concentrations of chlorobenzene (1.9 ppb), chlorodibromomethane (1.3 ppb), 1,2-dichloropropane (1.4 ppb), ethylbenzene (4.1 ppb), chloromethane (110 ppb), toluene (2.0 ppb), trichloroethylene (13 ppb), vinyl chloride (110 ppb), xylene (6.1 ppb); **MW-2** - chloromethane (51 ppb), trichloroethylene (25 ppb), vinyl chloride (51 ppb); **MW-3** - chloromethane (64 ppb), toluene (1.6 ppb), trichloroethylene (19 ppb), vinyl chloride (64 ppb), xylene (4.0 ppb).

Table 2 presents the results of the laboratory analysis for selected compounds which have designated established groundwater standards. Appendix G presents the groundwater laboratory results.

TABLE 2

GROUNDWATER QUALITY RESULTS (Parts Per Billion)

	MW-1	MW-2	MW-3	Enforcement Standard	Preventive Action Limit
Benzene	<1.0	<1.0	<1.0	5.0	5.0 .67
Ethylbenzene	4.1	<1.0	<1.0	1360	272
Toluene	2.0	<1.0	1.6	343	68.6
Xylene	6.1	<1.0	4.0	620	124
Trichloroethylene	13[1,2]	25[1,2]	19[1,2]	5.0	5.0
Vinyl Chloride	110[1,2]	51[1,2]	64[1,2]	0.2	0.2

[1] - Exceeds NR 140 Enforcement Standards
[2] - Exceeds NR 140 Preventive Action Limit

IX. CONCLUSIONS

The Soils and Groundwater Assessment at the former underground mineral spirits storage tank is completed. The following conclusions are made based on data collected at the site:

1. The site geology consists of brown silty fine sands. The sands in the subsurface present a transport mechanism for lateral and vertical flow of contaminants.

2. The phreatic surface is encountered at less than 10 feet below ground level. Groundwater flow is south-southeast in direction.

3. TPH (Total Petroleum Hydrocarbons) analysis of soil samples revealed no elevated concentrations of contaminants (>10 ppm).

4. Trichloroethylene, Vinyl Chloride, and other volatile organic compounds were detected in the groundwater samples collected from the three (3) monitoring wells. The concentrations of Trichloroethylene and Vinyl Chloride exceed the State of Wisconsin's Enforcement Standards and Preventive Action Limits.

5. Contaminants identified by laboratory analysis are not consistent with substances stored in the Underground Storage Tank (UST).

6. Trichloroethylene is currently utilized at the facility. Elevated concentrations of vinyl chloride may be attributed to breakdown of trichloroethylene.

X. LIMITATIONS OF INVESTIGATION

This report was prepared under constraints of cost, time, and scope, and reflects a limited assessment and evaluation rather than a full, total, complete or extensive assessment and evaluation.

Our assessment was performed using the degree of care and skill ordinarily exercised, under similar circumstances, by Professional Consultants practicing in this or similar localities. No other warranty or guarantee, expressed or implied, is made as to the conclusion and professional advice included in this report.

The findings of this report are valid as of the present date of the assessment. However, changes in the conditions of a property can occur with the passage of time, whether due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation, from the broadening of knowledge, or from other reasons. Accordingly, the findings of this report may be invalidated wholly or partially by changes outside our control.

The interpretations and conclusions contained in this report are based upon the result of independent laboratory tests and analysis intended to detect the presence and/or concentrations of certain chemical constituents in samples taken from the subject property. Sigma Environmental Services, Inc. has no control over such testing and analysis and therefore, disclaims any responsibility for any errors and omissions arising therefrom.

A subsurface exploration was performed and presented in this report. However, subsurface exploration cannot reveal totally what is below the surface. Depending upon the sampling method and frequency, every soil condition may not be observed, and some materials or layers which are present in the subsurface may not be noted.

This report is issued with the understanding that it is the responsibility of the owner(s) to ensure that the information and recommendations contained herein are brought to the attention of the appropriate regulatory agency(ies).

This report has been prepared specifically for Paragon Electric. Reproduction or distribution of this report should not be performed without written consent of Paragon Electric and Sigma Environmental Services Inc.

APPENDIX A

BORING LOGS

TEWOCR0374

ENVIRONMENTAL SERVICES

CHEM-BIO CORPORATION 140 East Ryan Road • Oak Creek, WI 53154-4599

Page 1 of 1

Client: Paragon Electric
Location: Two Rivers, Wisconsin — Start Date: 12/27/90
Boring Number: B-1 — Completion Date: 12/27/90
Drilling Co: Giles Engineering — Rig: General 550
Driller: Rolly Dombrowski — Auger or Casing Size: 2 1/4"
Helper: Bob — Hole Advanced By: ☒ HS. Auger ☐ Wash Boring
If wash boring used Depth _____ to _____ ft.

NOTES:
6" O.A.L. Sampling devise used to collect soil samples after pulling augers from hole.

WATER LEVEL	READING DATE	READING TIME	WATER LEVEL BELOW SURFACE	DEPTH CAVED
Encountered when drilling			Approximately 7'	
After auger or casing pulled				
24 hour reading	12/27/90	8:00am	7.54'	
1 hour reading			7.55'	
Observation well installed	12/27/90	11:00am	Depth 9.9 Feet	

Sample Number	Blows on Sampler 0/6	6/12	12/18	Sample Recovery	Material Change	MATERIAL CLASSIFICATION Signature:	PID PPM	REMARKS
1						2. 2.6' - Dark brown silty fine sand	170	
2						4.2-4.8'-Light-brown silty fine sand trace gravel	9.5	
3						7-7.6' -Gray silty very fine to fine sand with wood organic matter-trace small gravel	50	Wet
4						10-10.6' -Brown-gray fine sand with trace gravel	4.5	
						BORING TERMINATED AT 10.6'		

TEWOCR0374

ENVIRONMENTAL SERVICES

CHEM-BIO CORPORATION 140 East Ryan Road • Oak Creek, WI 53154-4599

Page 1 of 1

NOTES:

Client: Paragon Electric
Location: Two Rivers, Wisconsin — Start Date: 12/27/90
Boring Number: B-2 — Completion Date: 12/27/90
Drilling Co: Giles Engineering — Rig: General - 550
Driller: Rolly Dombrowski — Auger or Casing Size: 2 1/4"
Helper: — Hole Advanced By: ☒ HS. Auger ☐ Wash Boring
If wash boring used Depth ____ to ____ ft.

WATER LEVEL	READING DATE	READING TIME	WATER LEVEL BELOW SURFACE	DEPTH CAVED
Encountered when drilling				
After auger or casing pulled				
24 hour reading	12/28/90	8:00am	7.57	
1 hour reading			7.57	
Observation well installed	12/27/90	1:30pm	Depth 10.1 Feet	

Sample Number	Blows on Sampler 0/6 6/12 12/18	Sample Recovery	Material Change	MATERIAL CLASSIFICATION Signature:	PID PPM	REMARKS
1				2.5-3.1' - Brown silty very fine to fine sand-trace small gravel	24	
2				4.8-5.4' - Light brown silty very fine to fine sand-trace small gravel	12	
3				6.8-7.5' - Brown-gray silty very fine sand-trace organic matter	11	Wet
4				10.0-10.6' - Brown-gray silty very fine to fine sand-trace coarse sand and small gravel.	17	Wet
				BORING TERMINATED AT 10.6'		

ENVIRONMENTAL SERVICES

CHEM-BIO CORPORATION 140 East Ryan Road • Oak Creek, WI 53154-4599

Page 1 of 1

NOTES:

Client: Paragon Electric
Location: Two Rivers, Wisconsin — Start Date: 12/27/90
Boring Number: B-3 — Completion Date: 12/27/90
Drilling Co: Giles Engineering — Rig: General-550
Driller: Rolly Dombrowski — Auger or Casing Size: 2 1/4"
Helper: _____ — Hole Advanced By: ☒ HS. Auger ☐ Wash Boring
If wash boring used Depth _____ to _____ ft.

WATER LEVEL	READING DATE	READING TIME	WATER LEVEL BELOW SURFACE	DEPTH CAVED
Encountered when drilling				
After auger or casing pulled				
24 hour reading	12/28/90	8:00am	7.43	
1/2 hour reading			7.48	
Observation well installed	12/27/90	3:00	Depth 10.3 Feet	

Sample Number	Blows on Sampler 0/6 6/12 12/18	Sample Recovery	Material Change	MATERIAL CLASSIFICATION Signature:	PID PPM	REMARKS
1				2.4-3.0' - Brown silty very fine to fine sand-trace coarse sand	32	
2				5.0-5.6' - Light brown to fine-medium sand-trace coarse sand	3.5	
3				6.6-7.2' - Gray silty very fine to fine sand-trace coarse sand	9.0	Damp odor
4				10.3-10.9'- Brown to gray silty very fine to fine sand-trace coarse sand	40	Wet
				BORING TERMINATED AT 10.9'		

5 10 15 20 25 30 35 40

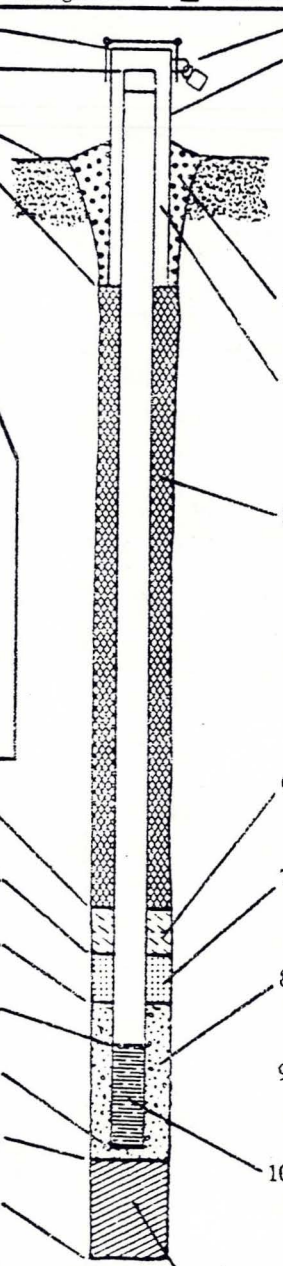
APPENDIX B

WELL CONSTRUCTION FORMS

State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION
Form 4400-113A 8-89

Facility/Project Name: Paragon Electric	Grid Location: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW-1
Facility License, Permit or Monitoring Number: _____		Wis. Unique Well Number: _____ DNR Well Number: _____
Type of Well: Water Table Observation Well ☒ 11; Piezometer ☐ 12	Section Location: SW 1/4 of NE 1/4 of Section 2, T 19 N, R 24 ☒ E ☐ W	Date Well Installed: 12/27/90 (m m / d d / y y)
Distance Well Is From Waste/Source Boundary: 7 ft.	Location of Well Relative to Waste/Source: ☐ Upgradient ☒ Sidegradient ☐ Downgradient ☐ Not Known	Well Installed By: (Person's Name and Firm): Rolly Dombrowsky; Giles Engineering
Is Well A Point of Enforcement Std. Application? ☒ Yes ☐ No		



A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or 10 ft.

12. USCS classification of soil near screen:
☐ GP ☐ GM ☐ GC ☐ GW ☒ SW ☐ SP
☐ SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH
☐ Bedrock

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50; Hollow Stem Auger ☒ 41; Other ☐ ___ _____

15. Drilling fluid used: Water ☐ 02; Air ☐ 01; Drilling Mud ☐ 03; None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis):
_____

E. Bentonite seal, top _____ ft. MSL or 20 ft.
F. Fine sand, top _____ ft. MSL or 30 ft.
G. Filter pack, top _____ ft. MSL or 40 ft.
H. Well screen, top _____ ft. MSL or 49 ft.
I. Well screen, bottom _____ ft. MSL or 104 ft.
J. Filter pack, bottom _____ ft. MSL or _____ ft.
K. Borehole, bottom _____ ft. MSL or _____ ft.
L. Borehole, diameter 50 in.
M. O.D. well casing 150 in.
N. I.D. well casing 125 in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: ___ in.
b. Length: ___ ft.
c. Material: Steel ☐ 04; Flush Aluminum Manhole; Other ☒ ___
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30; Concrete ☒ 01; Other ☐ ___
4. Material between well casing and protective pipe: Bentonite ☐ 30; Annular space seal ☒; Other ☐ ___
5. Annular space seal: Granular Bentonite ☒ 33
_____ Lbs/gal mud weight ... Bentonite-sand slurry ☐ 35
_____ Lbs/gal mud weight ..... Bentonite slurry ☐ 31
_____ % Bentonite .... Bentonite-cement grout ☐ 50
_____ Ft^3 volume added for any of the above
How installed: Tremie ☐ 01; Tremie pumped ☐ 02; Gravity ☒ 08
6. Bentonite seal: Bentonite granules ☐ 33
☒ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32
_____ Other ☐ ___
7. Fine sand material: Manufacturer, product name and mesh size
Red Flint Filter Sand 100
Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name and mesh size
Red Flint Filter Sand 20
Volume added _____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☐ 23; Flush threaded PVC schedule 80 ☐ 24
1 1/4" Galvanized Steel Other ☒ ___
10. Screen material: SS ___
Screen type: Factory cut ☐ 11; Continuous slot ☐ 01
Double-Wall Mesh Screen Other ☒ ___
Manufacturer SWRC
Slot size: 0.020 in.
Slotted length: 5.5 ft.
11. Backfill material (below filter pack): None ☒
_____ Other ☐

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

Signature	Firm
	Sigma Environmental Services, Inc.

Please complete and return both sides of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with ch. 144, Wis Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than $5,000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for each day of violation.

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

State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION
Form 4400-113A 8-89

Facility/Project Name: Paragon Electric	Grid Location: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW-2
Facility License, Permit or Monitoring Number: _____		Wis. Unique Well Number: _____ DNR Well Number: _____
Type of Well: Water Table Observation Well ☒ 11; Piezometer ☐ 12	Section Location: ____ 1/4 of ____ 1/4 of Section ____, T ____ N, R ____ ☐ E ☐ W	Date Well Installed: 12/27/90 (m m / d d / y y)
Distance Well Is From Waste/Source Boundary: 18 ft.	Location of Well Relative to Waste/Source: ☐ Upgradient ☐ Sidegradient ☒ Downgradient ☐ Not Known	Well Installed By: (Person's Name and Firm): Rolly Dombrowski; Giles Engineering
Is Well A Point of Enforcement Std. Application? ☒ Yes ☐ No		

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or 10 ft.

12. USCS classification of soil near screen:
☐ GP ☐ GM ☐ GC ☐ GW ☒ SW ☐ SP
☐ SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH
☐ Bedrock

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50; Hollow Stem Auger ☒ 41; Other ☐ ___
_____

15. Drilling fluid used: Water ☐ 02; Air ☐ 01; Drilling Mud ☐ 03; None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis):
_____

E. Bentonite seal, top _____ ft. MSL or 20 ft.
F. Fine sand, top _____ ft. MSL or 30 ft.
G. Filter pack, top _____ ft. MSL or 40 ft.
H. Well screen, top _____ ft. MSL or 51 ft.
I. Well screen, bottom _____ ft. MSL or 106 ft.
J. Filter pack, bottom _____ ft. MSL or ____ ft.
K. Borehole, bottom _____ ft. MSL or ____ ft.
L. Borehole, diameter 50 in.
M. O.D. well casing 150 in.
N. I.D. well casing 125 in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: ___.__ in.
b. Length: ___.__ ft.
c. Material: Steel ☐ 04; Flush Aluminum Manhole; Other ☒ __
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30; Concrete ☒ 01; Other ☐ __
_____
4. Material between well casing and protective pipe: Bentonite ☐ 30; Annular space seal ☒; Other ☐ __
_____
5. Annular space seal: Granular Bentonite ☒ 33
_____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
_____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
_____ % Bentonite . . . . Bentonite-cement grout ☐ 50
_____ Ft^3 volume added for any of the above
How installed: Tremie ☐ 01; Tremie pumped ☐ 02; Gravity ☒ 08
6. Bentonite seal: Bentonite granules ☐ 33
☒ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32
_____ Other ☐ __
7. Fine sand material: Manufacturer, product name and mesh size
Red Flint Filter Sand 100
Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name and mesh size
Red Flint Filter Sand 20
Volume added _____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☐ 23; Flush threaded PVC schedule 80 ☐ 24
1 1/4" Galvanized Steel Other ☒ __
10. Screen material: Stainless Steel __
Screen type: Factory cut ☐ 11; Continuous slot ☐ 01
Double-Wall Mesh Screen Other ☒ __
Manufacturer AWRC
Slot size: 0.020 in.
Slotted length: 5.5 ft.
11. Backfill material (below filter pack): None ☒
_____ Other ☐

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

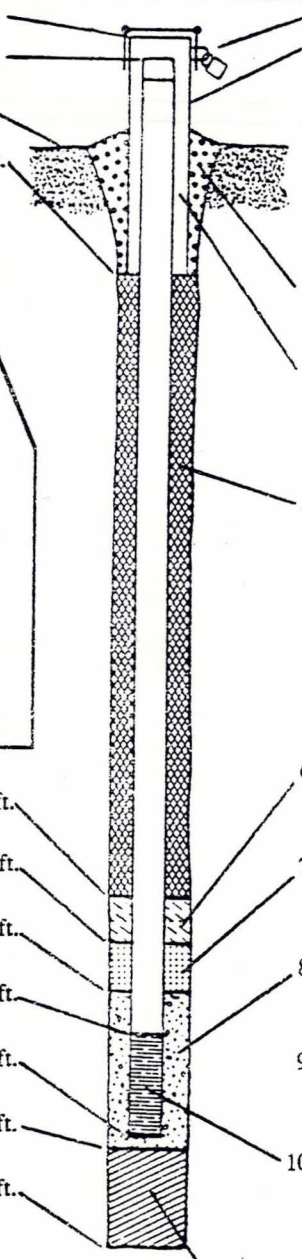
Signature	Firm
	Sigma Environmental Services, Inc.

Please complete and return both sides of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with ch. 144, Wis Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than $5,000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for each day of violation.
NOTE: Shaded areas are for DNR use only. See instructions for more information.

State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION
Form 4400-113A 8-89

Facility/Project Name: Paragon Electric	Grid Location: _____ ft. ☐ N. ☐ S. _____ ft. ☐ E. ☐ W.	Well Name: MW-3
Facility License, Permit or Monitoring Number: _____		Wis. Unique Well Number: _____ DNR Well Number: _____
Type of Well: Water Table Observation Well ☒ 11; Piezometer ☐ 12	Section Location: SW 1/4 of NE 1/4 of Section 2, T 19 N, R 24 ☒ E ☐ W	Date Well Installed: 12/7/90 (m m / d d / y y)
Distance Well Is From Waste/Source Boundary: 2 ft.	Location of Well Relative to Waste/Source: ☐ Upgradient ☒ Sidegradient ☐ Downgradient ☐ Not Known	Well Installed By: (Person's Name and Firm): Rolly Dombrowski; Giles Engineering
Is Well A Point of Enforcement Std. Application? ☒ Yes ☐ No		



A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or 1.0 ft.

12. USCS classification of soil near screen:
☐ GP ☐ GM ☐ GC ☐ GW ☒ SW ☐ SP
☐ SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH
☐ Bedrock

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50; Hollow Stem Auger ☒ 41; Other ☐ __

15. Drilling fluid used: Water ☐ 02; Air ☐ 01; Drilling Mud ☐ 03; None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No

Describe _____

17. Source of water (attach analysis):

E. Bentonite seal, top _____ ft. MSL or 2.0 ft.

F. Fine sand, top _____ ft. MSL or 3.0 ft.

G. Filter pack, top _____ ft. MSL or 4.0 ft.

H. Well screen, top _____ ft. MSL or 5.3 ft.

I. Well screen, bottom _____ ft. MSL or 10.8 ft.

J. Filter pack, bottom _____ ft. MSL or _____ ft.

K. Borehole, bottom _____ ft. MSL or _____ ft.

L. Borehole, diameter 5.0 in.

M. O.D. well casing 1.50 in.

N. I.D. well casing 1.25 in.

1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Flush Aluminum Manhole — Steel ☐ 04; Other ☒ __
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30; Concrete ☒ 01; Other ☐ __

4. Material between well casing and protective pipe: Bentonite ☐ 30; Annular space seal ☒; Other ☐ __

5. Annular space seal: Granular Bentonite ☒ 33
_____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
_____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
_____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
_____ Ft^3 volume added for any of the above
How installed: Tremie ☐ 01; Tremie pumped ☐ 02; Gravity ☒ 08

6. Bentonite seal: Bentonite granules ☐ 33
☒ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32
_____ Other ☐ __

7. Fine sand material: Manufacturer, product name and mesh size
Red Flint Filter Sand 100
Volume added _____ ft^3

8. Filter pack material: Manufacturer, product name and mesh size
Red Flint Filter Sand 20
Volume added _____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☐ 23; Flush threaded PVC schedule 80 ☐ 24
1 1/4" — Other ☒ __

10. Screen material: Stainless Steel
Screen type: Factory cut ☐ 11; Continuous slot ☐ 01
Double-wall Mesh Screen — Other ☒ __
Manufacturer AWRC
Slot size: 0.020 in.
Slotted length: 5.5 ft.

11. Backfill material (below filter pack): None ☒
_____ Other ☐

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

Signature	Firm
	Sigma Environmental Services, Inc.

Please complete and return both sides of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with ch. 144, Wis Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than $5,000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for each day of violation.

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

APPENDIX C

WELL DEVELOPMENT FORMS

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B 8-89

Facility/Project Name: PARAGON ELECTRIC
Well Name: MW-1 (INSIDE)
License, Permit or Monitoring Number: _____
Wis. Unique Well Number: _____ DNR Well Number: ___

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

surged with bailer and bailed	☐	41
surged with bailer and pumped	☒	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	[ ]

3. Time spent developing well: 0075 min.
4. Depth of well (from top of well casisng): 0093 ft.
5. Inside diameter of well: 01.25 in.
6. Volume of water in filter pack and well casing: <03.4 gal.
7. Volume of water removed from well: 034.0 gal.
8. Volume of water added (if any): ____.__ gal.
9. Source of water added: N/A
10. Analysis performed on water added? ☐ Yes ☐ No (If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	6.98 ft.	8.51 ft.
Date (m m d d y y)	01/18/91	01/18/91
Time	11:45 ☒ a.m. ☐ p.m.	1:00 ☐ a.m. ☒ p.m.
12. Sediment in well bottom	01.0 inches	00.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) Very turbid Brown. in color	Clear ☒ 20 Turbid ☐ 25 (Describe) WATER CLEARED UP AFTER 2 gallons purged
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	____.__ mg/l	____.__ mg/l
15. COD	____.__ mg/l	____.__ mg/l

Additional comments on development:
Well recharged slowly. Approximately ~~25~~ 2 gallons per minutes. Amount purged was more than 10 volumes of water.

Well developed by: Person's Name and Firm
Name: Scott Kirsop / Dale Palkowski
Firm: Sigma Environmental

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Scott Kirsop
Firm: Sigma Environmental

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

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B 8-89

Facility/Project Name: PARAGON ELECTRIC

Well Name: MW2 (INSIDE)

License, Permit or Monitoring Number: _____

Wis. Unique Well Number: _____

DNR Well Number: _____

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

surged with bailer and bailed	☐	41
surged with bailer and pumped	☒	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	___

3. Time spent developing well: 0065 min.

4. Depth of well (from top of well casisng): 009.4 ft.

5. Inside diameter of well: 01.25 in.

6. Volume of water in filter pack and well casing: ≤035.5 gal.

7. Volume of water removed from well: 035.0 gal.

8. Volume of water added (if any): ____.__ gal.

9. Source of water added: N/A

10. Analysis performed on water added? ☐ Yes ☐ No (If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	006.96 ft.	007.02 ft.
Date	01/18/91 (m m d d y y)	01/18/91 (m m d d y y)
Time	12:45 ☐ a.m. ☒ p.m.	01:50 ☐ a.m. ☒ p.m.
12. Sediment in well bottom	01.0 inches	00.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) Very Turbid Brown in Color	Clear ☒ 20 Turbid ☐ 25 (Describe) WATER CLEARED UP AFTER 12 gallons purged.

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	____.__ mg/l	____.__ mg/l
15. COD	____.__ mg/l	____.__ mg/l

Additional comments on development:

Well Recharged Slowly. Approximately .25 gallons every minute. Took out more than 10 volumes during developement.

Well developed by: Person's Name and Firm

Name: Scott Kirsop/Dale Palkowski

Firm: Sigma Environmental

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

Signature: Scott Kirsop

Firm: Sigma Environmental

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

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B 8-89

Facility/Project Name	Well Name
PARAGON Electric	MW-3 (INSIDE)
License, Permit or Monitoring Number	Wis. Unique Well Number / DNR Well Number
_____	_____ / ___

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

surged with bailer and bailed	☐	4 1
surged with bailer and pumped	☒	6 1
surged with block and bailed	☐	4 2
surged with block and pumped	☐	6 2
surged with block, bailed and pumped	☐	7 0
compressed air	☐	2 0
bailed only	☐	1 0
pumped only	☐	5 1
pumped slowly	☐	5 0
Other _____	☐	___

3. Time spent developing well 0060 min.

4. Depth of well (from top of well casisng) 009.0 ft.

5. Inside diameter of well 01.25 in.

6. Volume of water in filter pack and well casing 1032 gal.

7. Volume of water removed from well 035.0 gal.

8. Volume of water added (if any) ___.__ gal.

9. Source of water added N/A

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	006.84 ft.	006.84 ft.
Date	01/18/91 (m m d d y y)	01/18/91 (m m d d y y)
Time	11:15 ☒ a.m. ☐ p.m.	12:15 ☐ a.m. ☒ p.m.
12. Sediment in well bottom	1.0 inches	00.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) VERY Turbid BROWN in color	Clear ☒ 20 Turbid ☐ 25 (Describe) WATER CLEARED UP AFTER 5 GALS. WERE purged.

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	_____.__ mg/l	_____.__ mg/l
15. COD	_____.__ mg/l	_____.__ mg/l

Additional comments on development:
Well Recharged NICELY. Approximately .50 GALLONS PER MINUTE, MORE THAN 10 volumes OF WATER WAS purged FROM well.

Well developed by: Person's Name and Firm	I hereby certify that the above information is true and correct to the best of my knowledge.
Name: Scott Kirsop / Dale Palkowski	Signature: Scott Kirsop
Firm: SIGMA Environmental	Firm: Sigma Environmental

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

APPENDIX D

WATER LEVEL MEASUREMENTS

PARAGON ELECTRIC

WATER LEVEL MEASUREMENTS

Well #	Depth to Water	Date
MW-1	7.54'	12-29-90
	6.98'	1-18-91
MW-2	7.57'	12-28-90
	6.96'	1-18-91
MW-3	7.43'	12-28-90
	6.84'	1-18-91

APPENDIX E

LABORATORY RESULTS (SOIL)

CHEM-BIO CORPORATION
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

ENVIRONMENTAL SERVICES

01/08/91 LABORATORY REPORT

C739 8458955 W31

CBC REMEDIAL SERVICES INC.
140 E. RYAN ROAD
OAK CREEK ,WI 53154
ATTN: CRAIG VARLAND

TEWOCR0374

SAMPLE 90362-C11527 BORING 1/7-7.6'/PID = 50/SOIL/PARAGON ELECTRIC-TWO RIVERS, WI
DATE COLLECTED 12/28/90 DATE RECEIVED 12/28/90

TEST NAME	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE,
@ = ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE. # = ELEVATED DETECTION LIMIT DUE TO SAMPLE CONCENTRATION.
$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE VOLUME.
IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL

CHEM-BIO CORPORATION
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

ENVIRONMENTAL SERVICES

01/07/91 LABORATORY REPORT

C739 8458955 W31

TEWOCR0374

CBC REMEDIAL SERVICES INC.
140 E. RYAN ROAD
OAK CREEK ,WI 53154
ATTN: CRAIG VARLAND

SAMPLE 90362-C11528 BORING 2/2.5-3.1'/PID=24/SOIL/PARAGON ELECTRIC-TWO RIVERS, WI
DATE COLLECTED 12/28/90 DATE RECEIVED 12/28/90

TEST NAME	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE,
@ = ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE. # = ELEVATED DETECTION LIMIT DUE TO SAMPLE CONCENTRATION.
$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE VOLUME.
IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL

CHEM-BIO CORPORATION
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

ENVIRONMENTAL SERVICES

01/08/91 LABORATORY REPORT

C739 8458955 W31

TEWOCR0374

CBC REMEDIAL SERVICES INC.
140 E. RYAN ROAD
OAK CREEK ,WI 53154
ATTN: CRAIG VARLAND

SAMPLE 90362-C11529 BORING 3/6.6-7.2'/PID=90/SOIL/PARAGON ELECTRIC-TWO RIVERS, WI
DATE COLLECTED 12/28/90 DATE RECEIVED 12/28/90

TEST NAME	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	5.9	PPM
	GASOLINE	
	BASED ON SIMILARITIES TO GASOLINE STANDARDS	

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE,
@ = ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE. # = ELEVATED DETECTION LIMIT DUE TO SAMPLE CONCENTRATION.
$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE VOLUME.
IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL

APPENDIX F

LABORATORY RESULTS (GROUNDWATER)

CHEM-BIO CORPORATION
ENVIRONMENTAL SERVICES
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

03/05/91 LABORATORY REPORT

C739 8459594 W31
BL/ / / /
TEWOCR0374

SIGMA ENVIRONMENTAL SERVICES, INC.
9555 S. HOWELL AVE.
OAK CREEK ,WI 53154
ATTN: CRAIG VARLAND

SAMPLE 91018-C11530 WATER/TRIP BLANKS/PARAGON ELECTRIC-TWO RIVERS
DATE COLLECTED 01/18/91 DATE RECEIVED 01/18/91

TEST NAME	RESULT	UNITS
BENZENE	<1.0	PPB
BROMOFORM	<1.0	PPB
CARBON TETRACHLORIDE	<1.0	PPB
CHLOROBENZENE	<1.0	PPB
CHLORODIBROMOMETHANE	<1.0	PPB
CHLOROETHANE	<1.0	PPB
2-CHLOROETHYLVINYL ETHER	<1.0	PPB
CHLOROFORM	<1.0	PPB
DICHLOROBROMOMETHANE	<1.0	PPB
1,1-DICHLOROETHANE	<1.0	PPB
1,2-DICHLOROETHANE	<1.0	PPB
1,1-DICHLOROETHYLENE	<1.0	PPB
1,2-DICHLOROPROPANE	<1.0	PPB
CIS-1,3-DICHLOROPROPENE	<1.0	PPB
ETHYLBENZENE	<1.0	PPB
BROMOMETHANE	<1.0	PPB
CHLOROMETHANE	<1.0	PPB
METHYLENE CHLORIDE	<1.0	PPB
1,1,2,2-TETRACHLOROETHANE	<1.0	PPB
TETRACHLOROETHYLENE	<1.0	PPB
TOLUENE	<1.0	PPB
1,2-TRANSDICHLOROETHYLENE	<1.0	PPB
1,1,1-TRICHLOROETHANE	<1.0	PPB
1,1,2-TRICHLOROETHANE	<1.0	PPB
TRICHLOROETHYLENE	<1.0	PPB
TRICHLOROFLUOROMETHANE	<1.0	PPB
VINYL CHLORIDE / FREON 12	<1.0	PPB
TRANS-1,3-DICHLOROPROPENE	<1.0	PPB
XYLENE, TOTAL	<1.0	PPB

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE,
@ = ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE. # = ELEVATED DETECTION LIMIT DUE TO SAMPLE CONCENTRATION.
$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE VOLUME. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME.
IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL M.T.V.

CHEM-BIO CORPORATION
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

ENVIRONMENTAL SERVICES

03/05/91 LABORATORY REPORT

C739 8459594 W31
BL/ / / /
TEWOCR0374

SIGMA ENVIRONMENTAL SERVICES, INC.
9555 S. HOWELL AVE.
OAK CREEK ,WI 53154
ATTN: CRAIG VARLAND

SAMPLE 91018-C11531 WATER/FIELD BLANKS/PARAGON ELECTRIC-TWO RIVERS
DATE COLLECTED 01/18/91 DATE RECEIVED 01/18/91

TEST NAME	RESULT	UNITS
BENZENE	<1.0	PPB
BROMOFORM	<1.0	PPB
CARBON TETRACHLORIDE	<1.0	PPB
CHLOROBENZENE	<1.0	PPB
CHLORODIBROMOMETHANE	<1.0	PPB
CHLOROETHANE	<1.0	PPB
2-CHLOROETHYLVINYL ETHER	<1.0	PPB
CHLOROFORM	<1.0	PPB
DICHLOROBROMOMETHANE	<1.0	PPB
1,1-DICHLOROETHANE	<1.0	PPB
1,2-DICHLOROETHANE	<1.0	PPB
1,1-DICHLOROETHYLENE	<1.0	PPB
1,2-DICHLOROPROPANE	<1.0	PPB
CIS-1,3-DICHLOROPROPENE	<1.0	PPB
ETHYLBENZENE	<1.0	PPB
BROMOMETHANE	<1.0	PPB
CHLOROMETHANE	<1.0	PPB
METHYLENE CHLORIDE	<1.0	PPB
1,1,2,2-TETRACHLOROETHANE	<1.0	PPB
TETRACHLOROETHYLENE	<1.0	PPB
TOLUENE	<1.0	PPB
1,2-TRANSDICHLOROETHYLENE	<1.0	PPB
1,1,1-TRICHLOROETHANE	<1.0	PPB
1,1,2-TRICHLOROETHANE	<1.0	PPB
TRICHLOROETHYLENE	<1.0	PPB
TRICHLOROFLUOROMETHANE	<1.0	PPB
VINYL CHLORIDE / FREON 12	<1.0	PPB
TRANS-1,3-DICHLOROPROPENE	<1.0	PPB
XYLENE, TOTAL	<1.0	PPB

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE,
@ = ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE. # = ELEVATED DETECTION LIMIT DUE TO SAMPLE CONCENTRATION.
$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE VOLUME. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME.
IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL

CHEM-BIO CORPORATION
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

ENVIRONMENTAL SERVICES

C739 8459594 W31
BL/ / / /
TEWOCR0374

SIGMA ENVIRONMENTAL SERVICES, INC.
9555 S. HOWELL AVE.
OAK CREEK ,WI 53154
ATTN: CRAIG VARLAND

SAMPLE 91018-C11525 WATER/MW-1/PARAGON ELECTRIC-TWO RIVERS
DATE COLLECTED 01/18/91 DATE RECEIVED 01/18/91

TEST NAME	RESULT	UNITS
BENZENE	<1.0	PPB
BROMOFORM	<1.0	PPB
CARBON TETRACHLORIDE	<1.0	PPB
CHLOROBENZENE	1.9	PPB
CHLORODIBROMOMETHANE	1.3	PPB
CHLOROETHANE	<1.0	PPB
2-CHLOROETHYLVINYL ETHER	<1.0	PPB
CHLOROFORM	<1.0	PPB
DICHLOROBROMOMETHANE	<1.0	PPB
1,1-DICHLOROETHANE	<1.0	PPB
1,2-DICHLOROETHANE	<1.0	PPB
1,1-DICHLOROETHYLENE	<1.0	PPB
1,2-DICHLOROPROPANE	1.4	PPB
CIS-1,3-DICHLOROPROPENE	<1.0	PPB
ETHYLBENZENE	4.1	PPB
BROMOMETHANE	<1.0	PPB
CHLOROMETHANE	110	PPB
METHYLENE CHLORIDE	<1.0	PPB
1,1,2,2-TETRACHLOROETHANE	<1.0	PPB
TETRACHLOROETHYLENE	<1.0	PPB
TOLUENE	2.0	PPB
1,2-TRANSDICHLOROETHYLENE	<1.0	PPB
1,1,1-TRICHLOROETHANE	<1.0	PPB
1,1,2-TRICHLOROETHANE	<1.0	PPB
TRICHLOROETHYLENE	13	PPB
TRICHLOROFLUOROMETHANE	<1.0	PPB
VINYL CHLORIDE / FREON 12	110	PPB
TRANS-1,3-DICHLOROPROPENE	<1.0	PPB
XYLENE, TOTAL	6.1	PPB

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE,
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$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE VOLUME. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME.
IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL M.F.

CHEM-BIO CORPORATION
ENVIRONMENTAL SERVICES
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

02/26/91 LABORATORY REPORT

C739 8459594 W31
BL/ / / /
TEWOCR0374

SIGMA ENVIRONMENTAL SERVICES, INC.
9555 S. HOWELL AVE.
OAK CREEK ,WI 53154
ATTN: CRAIG VARLAND

SAMPLE 91018-C11527 WATER/MW-2/PARAGON ELECTRIC-TWO RIVERS
DATE COLLECTED 01/18/91 DATE RECEIVED 01/18/91

TEST NAME	RESULT	UNITS
BENZENE	<1.0	PPB
BROMOFORM	<1.0	PPB
CARBON TETRACHLORIDE	<1.0	PPB
CHLOROBENZENE	<1.0	PPB
CHLORODIBROMOMETHANE	<1.0	PPB
CHLOROETHANE	<1.0	PPB
2-CHLOROETHYLVINYL ETHER	<1.0	PPB
CHLOROFORM	<1.0	PPB
DICHLOROBROMOMETHANE	<1.0	PPB
1,1-DICHLOROETHANE	<1.0	PPB
1,2-DICHLOROETHANE	<1.0	PPB
1,1-DICHLOROETHYLENE	<1.0	PPB
1,2-DICHLOROPROPANE	<1.0	PPB
CIS-1,3-DICHLOROPROPENE	<1.0	PPB
ETHYLBENZENE	<1.0	PPB
BROMOMETHANE	<1.0	PPB
CHLOROMETHANE	51	PPB
METHYLENE CHLORIDE	<1.0	PPB
1,1,2,2-TETRACHLOROETHANE	<1.0	PPB
TETRACHLOROETHYLENE	<1.0	PPB
TOLUENE	<1.0	PPB
1,2-TRANSDICHLOROETHYLENE	<1.0	PPB
1,1,1-TRICHLOROETHANE	<1.0	PPB
1,1,2-TRICHLOROETHANE	<1.0	PPB
TRICHLOROETHYLENE	25	PPB
TRICHLOROFLUOROMETHANE	<1.0	PPB
VINYL CHLORIDE / FREON 12	51	PPB
TRANS-1,3-DICHLOROPROPENE	<1.0	PPB
XYLENE, TOTAL	<1.0	PPB

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$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE VOLUME. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME.
IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL M-L.

CHEM-BIO CORPORATION
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

ENVIRONMENTAL SERVICES

02/26/91 LABORATORY REPORT

C739 8459594 W31
BL/ / / /
TEWOCR0374

SIGMA ENVIRONMENTAL SERVICES, INC.
9555 S. HOWELL AVE.
OAK CREEK ,WI 53154
ATTN: CRAIG VARLAND

SAMPLE 91018-C11528 WATER/MW-3/PARAGON ELECTRIC-TWO RIVERS
DATE COLLECTED 01/18/91 DATE RECEIVED 01/18/91

TEST NAME	RESULT	UNITS
BENZENE	<1.0	PPB
BROMOFORM	<1.0	PPB
CARBON TETRACHLORIDE	<1.0	PPB
CHLOROBENZENE	<1.0	PPB
CHLORODIBROMOMETHANE	<1.0	PPB
CHLOROETHANE	<1.0	PPB
2-CHLOROETHYLVINYL ETHER	<1.0	PPB
CHLOROFORM	<1.0	PPB
DICHLOROBROMOMETHANE	<1.0	PPB
1,1-DICHLOROETHANE	<1.0	PPB
1,2-DICHLOROETHANE	<1.0	PPB
1,1-DICHLOROETHYLENE	<1.0	PPB
1,2-DICHLOROPROPANE	<1.0	PPB
CIS-1,3-DICHLOROPROPENE	<1.0	PPB
ETHYLBENZENE	<1.0	PPB
BROMOMETHANE	<1.0	PPB
CHLOROMETHANE	64	PPB
METHYLENE CHLORIDE	<1.0	PPB
1,1,2,2-TETRACHLOROETHANE	<1.0	PPB
TETRACHLOROETHYLENE	<1.0	PPB
TOLUENE	1.6	PPB
1,2-TRANSDICHLOROETHYLENE	<1.0	PPB
1,1,1-TRICHLOROETHANE	<1.0	PPB
1,1,2-TRICHLOROETHANE	<1.0	PPB
TRICHLOROETHYLENE	19	PPB
TRICHLOROFLUOROMETHANE	<1.0	PPB
VINYL CHLORIDE / FREON 12	64	PPB
TRANS-1,3-DICHLOROPROPENE	<1.0	PPB
XYLENE, TOTAL	4.0	PPB

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IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL M.T.L.

CHEM-BIO CORPORATION
ENVIRONMENTAL SERVICES
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

02/26/91 LABORATORY REPORT

C739 8459594 W31
BL/ / / /
TEWOCR0374

SIGMA ENVIRONMENTAL SERVICES, INC.
9555 S. HOWELL AVE.
OAK CREEK ,WI 53154
ATTN: CRAIG VARLAND

SAMPLE 91018-C11529 WATER/DUPLICATE/PARAGON ELECTRIC-TWO RIVERS
DATE COLLECTED 01/18/91 DATE RECEIVED 01/18/91

TEST NAME	RESULT	UNITS
BENZENE	<1.0	PPB
BROMOFORM	<1.0	PPB
CARBON TETRACHLORIDE	<1.0	PPB
CHLOROBENZENE	<1.0	PPB
CHLORODIBROMOMETHANE	<1.0	PPB
CHLOROETHANE	<1.0	PPB
2-CHLOROETHYLVINYL ETHER	<1.0	PPB
CHLOROFORM	<1.0	PPB
DICHLOROBROMOMETHANE	<1.0	PPB
1,1-DICHLOROETHANE	<1.0	PPB
1,2-DICHLOROETHANE	<1.0	PPB
1,1-DICHLOROETHYLENE	<1.0	PPB
1,2-DICHLOROPROPANE	<1.0	PPB
CIS-1,3-DICHLOROPROPENE	<1.0	PPB
ETHYLBENZENE	<1.0	PPB
BROMOMETHANE	<1.0	PPB
CHLOROMETHANE	18	PPB
METHYLENE CHLORIDE	<1.0	PPB
1,1,2,2-TETRACHLOROETHANE	<1.0	PPB
TETRACHLOROETHYLENE	<1.0	PPB
TOLUENE	<1.0	PPB
1,2-TRANSDICHLOROETHYLENE	<1.0	PPB
1,1,1-TRICHLOROETHANE	<1.0	PPB
1,1,2-TRICHLOROETHANE	<1.0	PPB
TRICHLOROETHYLENE	20	PPB
TRICHLOROFLUOROMETHANE	<1.0	PPB
VINYL CHLORIDE / FREON 12	18	PPB
TRANS-1,3-DICHLOROPROPENE	<1.0	PPB
XYLENE, TOTAL	<1.0	PPB

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IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL M.T.L.

APPENDIX G

WELL CONSTRUCTION LOGS

UNIVERSITY OF WISCONSIN GEOLOGICAL & NATURAL HISTORY SURVEY
1815 University Avenue, Madison, Wisconsin 53706

Log No. Mn-35
Issued: Oct., 1967

County: Manitowoc

Well name Mirro Aluminum Company, Two Rivers, Wis.
Located 15th St., 400' S. of Washington St.
Owner... Mirro Aluminum Co.
Address. Manitowoc, Wisconsin

Driller.. Egerer-Galloway Well Corp.
Engineer.

Completed... 5/3/65
Field check.
Altitude.... 595' ETM
Use..... Industrial
Static w. l. = 7'
Spec. cap... = 0.9

R. 24E
T. 19 N.
Sec. 1

Quad. Manitowoc 15'

Drill Hole						Casing & Liner Pipe or Curbing							
Dia.	from	to	Dia.	from	to	Dia.	Wgt.& Kind	from	to	Dia.	Wgt.& Kind	from	to
16"	0	45'				16"	steel 3/8" wall	0	45'				
10"	45	371'				10"	steel .307" wall	+2'	87'				

Grout: Kind	from	to
Neat cement	0	45'

Samples from 0 to 370' Date received: 9/16/65
Sample Nos. 257899 to 257972 Examined by: Janet Olmstead Date: 2/11/66
Formations: Drift, Silurian

Remarks: Well tested for 7½ hours at 300 gpm with 343 feet of drawdown.

LOG OF WELL:

DRIFT	0-10	10	Top soil, mxd clr, mxd lithology
	10-15	5	Snd,mxd clr,M&C,Srnd,P srtg,tr fn,VC;mch cl,trVfn&fn gvl & soil
	15-20	5	Snd,mxd clr,M&C,Srnd,P srtg,trVC;ltl Vfn&fn gvl & cong
	20-25	5	Cl,lt rd bn,dolic;ltl Vfn, fn gvl, tr snd
	25-30	5	Cl, lt rd bn, dolic; mch st, tr snd, & Vfn gvl
	30-35	5	Cl,Vlt rd bn,dolic; mch st, tr snd & Vfn gvl
	35-40	5	St & Cl, lt yl gry bn; mch Vfn & fn snd
	40-55	15	Cl, lt rd, dolic; mch st, tr snd
	55-80	25	Cl, lt rd bn, dolic; mch st, tr snd
85'	80-85	5	Snd, mxd clr, C & VC,ang, P srtg, tr M, fn; ltl Vfn, fn gvl, cl
SILURIAN	85-90	5	Dol, lt gry bn, M & fn, dns; mch cyd snd, tr sh & pyr
	90-95	5	Dol, lt gry, M & fn, dns; tr pyr & sh
	95-100	5	Dol, lt yl gry bn, M & fn, dns; tr pyr & sh
	100-105	5	Dol, lt yl rd bn mot lt gry, M & fn, dns; tr pyr & sh
	105-110	5	Dol, lt yl rd bn mot lt gry, M & fn, dns; tr pyr, sh, oolic dol
	110-140	30	Dol, lt yl rd bn mot lt gry, M & fn, dns; tr pyr & sh
	140-145	5	Dol, lt yl rd bn, M & fn, dns;
	145-150	5	Dol, Vlt yl gry, M & fn, dns; tr pyr
	150-170	20	Dol, V.t yl gry, M & fn, dns; tr pyr & sh

Well name Mirro Aiuminum Co., Two Rivers, Wis.
Sample Nos. 257899 to 257972

SILURIAN	170-210	40	Dol, Vlt yl pnk bn, M & fn, dns; tr sugary dol, sh & pyr
	210-220	10	Dol, Vlt or pnk, M, dns, tr C; tr pyr & sh
	220-225	5	Dol, lt yl rd bn, M, dns; tr sh & gypsum
	225-230	5	Dol, lt yl rd bn, M, dns; tr qtz
	230-240	10	Dol, lt yl rd bn, M, dns; tr qtz & stnd pyr
	240-245	5	Dol, lt yl rd bn, M, dns; tr qtz, stnd pyr & sh
	245-255	10	Dol, lt yl rd bn, M & C, dns; tr stnd pyr
	255-280	25	Dol, Vlt gry, M & C, dns; tr sh
	280-285	5	Dol, Vlt gry, M & C, dns; tr sh & pyr
	285-295	10	Dol, Vlt gry, M & C, dns;
	295-300	5	Dol, lt yl bn, M & fn, dns;
	300-305	5	Dol, lt yl bn mot Vlt gry, M & fn, dns; tr pyr & sh
	305-310	5	Dol, wh, M & fn, dns;
	310-365	55	Dol, Vlt gry, M & fn, dns, tr C; tr pyr & calc
285	365-370	5	Dol, lt gry, M & fn, dns; ltl stnd Fe, tr pyr

END OF WELL

CITY TEST WELL NO. 2, TWO RIVERS, WIS.

1750' E of Well No 1. Sec 1, T. 19, R. 24 E. NE¼, SE¼, SW¼
W. H. Gray Bros, Drillers, 1914
Samples sent by G. H. Wehausen
" examined by F. T. Thwaites, U. W. Nos. 16717-16819
Elevation of curb 587

1" = 100

DRIFT	100	0-15		"Lake sand" no sample
		15-17		"Hard pan" " "
		17-32		"Quicksand" " "
		32-100		Clay, red, dry " "
NIAGARA	670	100-335		Limestone, magnesian, light gray
		335-350		Limestone, magnesian, yellowish
		350-440		Limestone, magnesian, light gray
		440-470		Limestone, magnesian, light gray, white flint
		470-515		Limestone, magnesian, light gray
		515-545		Limestone, magnesian, light gray, white flint
		545-560		Limestone, light gray, magnesian
		560-590		Limestone, magnesian, dark gray, flinty
		590-620		Limestone, magnesian, gray, shaley
		620-635		Limestone, magnesian, light gray
		635-665		Limestone, magnesian, gray, flinty
		665-680		Limestone, magnesian, yellowish gray
		680-710		Limestone, magnesian, gray, flinty
		710-770		Limestone, magnesian, dark gray
		770-800		Shale, gray, limy and limestone, magnesian, gray, very shaley
		800-860		Shale, gray, limy with some shaley limestone at top.

TWO RIVERS 2

RICHMOND	330	860-875		Limestone, magnesian, bluish-gray, very shaley
		875-1100		Shale, bluish-gray, limy
GALENA-BLACKRIVER	195	1100-1250		Limestone, bluish-gray, magnesian
		1250-1265		Limestone, magnesian, brownish-gray
		1265-1280		Limestone, magnesian, bluish-gray
		1280-1295		Limestone, magnesian, brownish-gray
ST. PETER	45	1295-1340		Sandstone, fine to medium, gray & yellow, little lime
LAKE SUPERIOR?	270	1340-1400		Sandstone, fine, yellowish and brownish red, grains not well rounded, no lime
		1400-1445		Sandstone, fine, red, grains fairly well rounded, no lime
		1445-1460		Sandstone, medium, yellowish-brown, angular grains
		1460-1475		Sandstone, fine, red, well rounded
		1475-1490		Shale, sandy, reddish-gray, no lime
		1490-1550		Sandstone, fine, yellowish red and gray, grains poorly rounded
		1550-1580		Sandstone, fine, light red, grains poorly rounded
		1580-1595		Sandstone, fine, dark yellowish-brown, well rounded
		1595-1610		Shale, sandy, dark red, no lime
PRE-CAMBRIAN	30	1610-1640		Quartzite, light gray to brown, glassy

JAN 13 1988

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300-15 Rev. 5-85

1. COUNTY: Manitowoc — CHECK (✓) ONE: ☐ Town ☐ Village ☑ City — Name: Two Rivers

2. LOCATION: ¼ Section or Gov't. Lot: Mile 113.2 SW ¼ — Section: 1 — Township: 19N — Range: 24E
OR – Grid or Street No. — Street or Road Name: Memorial dr.
AND – If available subdivision name, lot & block No.

3. NAME ☑ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Light house Inn WELL #3
ADDRESS: 1315 Memorial dr.
POST OFFICE: Two Rivers WI. ZIP CODE: 54241

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
11			120							

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Foundation Drain Connected to: Sewage Sump	Foundation Drain Connected to: Clearwater Dr.	Foundation Drain Connected to: Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit: Seepage Pit / Seepage Bed / Seepage Trench	Manure Hopper or Retention or Pneumatic Tank

Privy	Pet Waste Pit	Plt: Nonconforming Existing: Well / Pump / Tank	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Plt	Glass Lined Storage Facility	Silo w/o Plt	Earthen Silage Storage Trench Or Plt	Earthen Manure Basin

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin / Concrete Floor Only / Concrete Floor and Partial Concrete Walls	Other (Describe)
						PERM. WELL # 81606

5. Well is intended to supply water for: Motel-Non-Potable for heat

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
9	Surface	89			
6	89	545			

CASING, LINER, CURBING AND SCREEN
Material, Weight, Specification

Dia. (in.)	Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	New Bl. STL.	Surface	91
	Plain welded		
	ASTM A53		
	18.97 280		
	Taiwan		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Drill Slurry	Surface	89

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Gravel	Surface	10
Sandy-clay	10	85
Gravel	85	89
Limestone	89	400
Limestone	400	545
MANITOWOC CO. MISC.	#6	
FILE LOC: TWO RIVERS		
APPROVAL DATE: FEB 19, 1988		

10. TYPE OF DRILLING MACHINE USED
☐ Cable Tool ☑ Rotary-hammer w/drilling mud & air ☐ Jetting with
☐ Rotary-air w/drilling mud ☐ Rotary-hammer & air ☐ Air ☐ Water
☐ Rotary-w/drilling mud ☐ Reverse Rotary

Well construction completed on 12-10 19 87

11. MISCELLANEOUS DATA
Yield Test: 2 Hrs. at 60 GPM
Depth from surface to normal water level 125 Ft.
Depth of water level when pumping 208 Ft. Stabilized ☑ Yes ☐ No
SC = 0.7 GPM/ft.

Well is terminated 24 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to Green Bay laboratory on 12-28 19 87

Or opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Tom VandeYacht — Registered Well Driller

Business Name and Complete Mailing Address: Silvan VandeYacht Water Wells Inc P.O. 24081 Green Bay 54324

No samples

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

MAR 3 1988

WELL CONSTRUCTOR'S REPORT
Form 3300-15 Rev. 3-87

1. COUNTY: MANITOWOC

CHECK (✓) ONE: ☒ Town ☐ Village ☑ City Name: TWO RIVERS

2. LOCATION: ¼ Section or Gov't. Lot ✓: SW¼ SW¼ | Section: 1 | Township: 19 N. | Range: 24 E.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: JAMES VANLANEN Well #2

OR – Grid or Street No.: 1515 | Street or Road Name: MEMORIAL DR.

ADDRESS: 1515 MEMORIAL DR. PERM # 81605

AND – If available subdivision name, lot & block No.

POST OFFICE: TWO RIVERS, WIS. ZIP CODE: 54241

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
6	–	–	–	–	–	–	–	–	–	–

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Foundation Drain Connected to: Sewage Sump	Foundation Drain Connected to: Clearwater Dr.	Foundation Drain Connected to: Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	Manure Hopper or Retention or Pnuematic Tank
100	–	–	–					–	–	–	–	–	Seepage Pit	
													Seepage Bed	
													Seepage Trench –	–

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
–	–	Well / Pump / Tank	–	–	–	–	–	–	–	–	–

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin / Concrete Floor Only / Concrete Floor and Partial Concrete Walls	Other (Describe)
–	–	–	–	–		-lake-75'

5. Well is intended to supply water for: Heat Pump

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	91	6	91	622

7. CASING, LINER, CURBING AND SCREEN
Material, Weight, Specification

Dia. (in.)	Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	API -5A	Surface	91
	Jones & laughlin		
	Welded joint		
	Wt. 18.97 per ft.		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Cement	Surface	60
Drilling mud	60	91

9. FORMATIONS

Kind	From (ft.)	To (ft.)
sand	Surface	35
clay	35	91
limestone	91	622

Manitowoc Co. Misc #6
Approval Date: Feb 8, 1984
File location: Two Rivers
cc: State Geologist

10. TYPE OF DRILLING MACHINE USED
☐ Cable Tool ☒ Rotary-hammer w/drilling mud & air ☐ Jetting with
☐ Rotary-air w/drilling mud ☐ Rotary-hammer & air ☐ Air ☐ Water
☐ Rotary-w/drilling mud ☐ Reverse Rotary

Well construction completed on JULY 7, 1983

11. MISCELLANEOUS DATA

Yield Test: 8 Hrs. at 110 GPM

Depth from surface to normal water level 40 Ft.

Depth of water level when pumping 40 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 8 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to _____ laboratory on _____ 19____

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Leonard J. Willems
Registered Well Driller

Business Name and Complete Mailing Address
WILLEMS WELL DRILLING
Rt 1 GREENLEAF, WIS. 54126

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev. 5-85

JUL 10 1986

1. COUNTY: Manitowoc

CHECK (✓) ONE: ☒ Town ☐ Village ☐ City

Name: Two Rivers

2. LOCATION: ¼ Section or Gov't. Lot: NE¼ SW¼ | Section: 1 | Township: ✓L9N. | Range: 24E

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Leigh Stegeman

OR – Grid or Street No.: 1515 | Street or Road Name: 12th. St.

ADDRESS: R. 3

AND – If available subdivision name, lot & block No.

POST OFFICE: Two Rivers, Wis. ZIP CODE: 54241

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
6	–	–	–	–	–	–	–	–	–	–

Street Sewer		Other Sewers		Foundation Drain Connected to:		Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	Manure Hopper or Retention or Pnuematic Tank
San.	Storm	C.I.	Other	Sewer	Sewage Sump	C.I.	Other				Seepage Pit	
50	–	–	–	Clearwater Dr.	Clearwater Sump	–	–	–	–	–	Seepage Bed	–
											Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing		Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
		Well										
–	–	Pump		–	–	–	–	–	–	–	–	–
		Tank	–									

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin / Concrete Floor Only / Concrete Floor and Partial Concrete Walls	Other (Describe)
–	–	–	–	–		–

5. Well is intended to supply water for: Bait Shop

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	99	6	99	370

7. CASING, LINER, CURBING AND SCREEN
Material, Weight, Specification

Dia. (in.)	Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	ASTM A-53	Surface	99
	Sumitomo		
	Welded joint		
	Wt. 18.97 per ft.		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Drilling mud	Surface	99

9. FORMATIONS

Kind	From (ft.)	To (ft.)
sand	Surface	28
clay	28	86
hard pan	86	99
limestone	99	370

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool ☒ Rotary-hammer w/drilling mud & air ☐ Jetting with
☐ Rotary-air w/drilling mud ☐ Rotary-hammer & air ☐ Air ☐ Water
☐ Rotary-w/drilling mud ☐ Reverse Rotary

Well construction completed on May 30, 19 86

11. MISCELLANEOUS DATA

Yield Test: 4 Hrs. at 20 GPM

Depth from surface to normal water level 100 Ft.

Depth of water level when pumping 100 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 8 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on June 12, 19 86

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Leonard J. Willems Registered Well Driller

Business Name and Complete Mailing Address:
Willems Well Drilling
R. 1 Greenleaf, Wis. 54126

Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev. 2-79

JUL 2 1 1984

1. COUNTY: Manitowoc
CHECK (✓) ONE: ☒ Town ☐ Village ☐ City
Name: West Port Two Rivers

2. LOCATION: ¼ Section or Gov't. Lot: NE of SW | Section: 2 | Township: 19-N | Range: 24-E
OR – Grid or Street No. | Street or Road Name:
AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Dan Rockhoff
ADDRESS: 2925 10th St
POST OFFICE: Two Rivers, Wisconsin ZIP CODE:

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
50	50									

Street Sewer		Other Sewers		Foundation Drain Connected to:				Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	Manure Hopper or Retention or Pnuematic Tank
San.	Storm	C.I.	Other	Sewer		Sewage Sump		C.I.	Other				Seepage Pit	
				Clearwater Dr.		Clearwater Sump				50	50		Seepage Bed 75	
													Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing		Subsurface Pumproom	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
		Well		Nonconforming Existing								
		Pump										
		Tank										

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin / Concrete Floor Only / Concrete Floor and Partial Concrete Walls	Other (Describe)

5. Well is intended to supply water for: Home

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	97			
6	97	123			

7. CASING, LINER, CURBING AND SCREEN
Material, Weight, Specification

Dia. (in.)	Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	ERW.	Surface	97
	P.E. 18.97 psi		
	Black-Rem		
	ASTM-A-P20		
	IBT Brazil. D.I.		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Clay Slurry	Surface	97

9. FORMATIONS

Kind	From (ft.)	To (ft.)
sand	Surface	50
Clay	50	85
gravel	85	97
limestone	97	123

10. TYPE OF DRILLING MACHINE USED
☐ Cable Tool ☒ Rotary-hammer w/drilling mud & air ☐ Jetting with
☐ Rotary-air w/drilling mud ☐ Rotary-hammer & air ☐ Air ☐ Water
☐ Rotary-w/drilling mud ☐ Reverse Rotary

Well construction completed on July 24 19 84

11. MISCELLANEOUS DATA
Yield Test: 1 Hrs. at 10 GPM
Depth from surface to normal water level 19 Ft.
Depth of water level when pumping 19 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 18 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison Wisconsin laboratory on July 24 19 84

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Jerome Ritzloff Registered Well Driller

Business Name and Complete Mailing Address: P.O. Box 81 Greenleaf, Wisconsin

WELL CONSTRUCTOR'S REPORT

Wel–6

SEP 2 1970

WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: Manitowoc | CHECK ONE: ☒ Town ☐ Village ☐ City | NAME: Two Creeks

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.)
NE ¼ of Sec. 2 - T 19 N R 24 E

3. OWNER AT TIME OF DRILLING
Tom Dubish

4. OWNER'S COMPLETE MAIL ADDRESS
R # 2 Two Creeks Wis.

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
--	50	—	—	—	—	—	—	—

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
—	—	75	—	—	80	—	—	—	—

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

6. Well is intended to supply water for: Home & Trailer

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	20	6	20	143

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	steel std.	Surface	122
	19.45 lbs per		
	foot new		
	black pipe		

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Drill slurry	Surface	20

10. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand	Surface	68
Clay	68	108
Sandstone	108	122
Limestone	122	143

Well construction completed on Aug. 27 1970

Well is terminated 18 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

11. MISCELLANEOUS DATA
Yield test: 3 Hrs. at 15 GPM

Depth from surface to normal water level 10 ft.

Depth to water level when pumping 12 ft.

Water sample sent to Madison laboratory on: Sept. 1 1970

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Joseph Pahnke Registered Well Driller

COMPLETE MAIL ADDRESS: 4217 Cemetery St. Two Creeks Wis.

Please do not write in space below

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS

REV. 11–68

STATE OF WISCONSIN

WELL CONSTRUCTOR'S REPORT

DEPARTMENT OF RESOURCE DEVELOPMENT

Wel 6

1. COUNTY: Manitowoc | CHECK ONE: ☒ Town ☐ Village ☐ City | NAME: Two Rivers

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.)
NW¼ - NE¼ S2 T19N. R24E

3. OWNER AT TIME OF DRILLING
Harley Groelle

4. OWNER'S COMPLETE MAIL ADDRESS
Harley Groelle Two Rivers R. 2 Wis. 54241

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
5'	35'					45'	35'	

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		60'						✓	

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

6. Well is intended to supply water for: Private Home.

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	20			
6	20	114			

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6"	Well Drillers	Surface	
	Pipe 19.45 #		
	per ft.	0	107
	T. & C. Black.		

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Clay Slurry	Surface	20

10. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand Clay	Surface	21
Sand.	21	41
Red Clay	41	97
Sand & Gravel	97	107
Rock Limstone	107	114

Well construction completed on 6 / 28 1965

11. MISCELLANEOUS DATA

Yield test: 5 Hrs. at 10 GPM

Depth from surface to normal water level 12 ft.

Depth to water level when pumping 12 ft.

Well is terminated 15 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on: 3 / 3 — 1969

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Amos Retzlaff Registered Well Driller

COMPLETE MAIL ADDRESS: Luxemburg R.1 Wis 54217

Please do not write in space below

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS

WELL CONSTRUCTOR'S REPORT **WISCONSIN STATE BOARD OF HEALTH** Wel 6

1. COUNTY: Manitowoc — CHECK ONE: ☒ Town ☐ Village ☐ City — NAME: Two Rivers

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.)
T 19 N R 24-25 E S. 3

RECEIVED NOV 23 1965

3. OWNER AT TIME OF DRILLING: Eugene Decker

4. OWNER'S COMPLETE MAIL ADDRESS: R#2 Two Rivers Wisc.

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
4½	50	75	50	—	—	—	30	—

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
—	—	150	—	—	—	—	—	100	—

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)
There is a old 4 in well about 100 feet away that will be filled

6. Well is intended to supply water for: Farm — with cement

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25	6	25	97

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	Stel Std.	Surface	97

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Puddled Clay	Surface	25

10. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand	Surface	30
Clay	30	95
Sand & gravel	95	97

Well construction completed on 11/20/65 19

Well is terminated 24 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

11. MISCELLANEOUS DATA

Yield test: 10 Hrs. at 20 GPM

Depth from surface to normal water level 2 ft.

Depth to water level when pumping 4 ft.

Water sample sent to Madison laboratory on: 11/22/65 19

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Joseph C. Rehm Registered Well Driller

COMPLETE MAIL ADDRESS: 4917 Jasmine St. Manitowoc Wis.

Please do not write in space below

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS

STATE OF WISCONSIN

WELL CONSTRUCTOR'S REPORT — DEPARTMENT OF RESOURCE DEVELOPMENT — Wel 6

1. COUNTY: Manitowoc — CHECK ONE: ☒ Town ☐ Village ☐ City — NAME: Two Rivers - South Past.

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.)
T 19 N R 24-25 E NE ¼ of Sec. 3

3. OWNER AT TIME OF DRILLING
Joseph Robinson

4. OWNER'S COMPLETE MAIL ADDRESS
R # 2 Two Rivers Wisc.

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
10	—	—	—	—	/ —	—	—	—

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
—	—	—	75	—	—	—	—	—	—

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

6. Well is intended to supply water for: Home use

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	20	6	20	124

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	Stl Std-19.45	Surface	99
	Block T & C		

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Drill slurry	Surface	20

10. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand	Surface	21
Clay	21	82
Sand Stone	82	99
Limestone	99	124

Well construction completed on April - 18 1968

11. MISCELLANEOUS DATA
Yield test: 3 Hrs. at 20 GPM

Depth from surface to normal water level 6 ft.

Depth to water level when pumping 8 ft.

Well is terminated 18 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on: April 22 1968

Your opinion concerning other pollution hazards, information concerning difficulties encountered and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Joseph Robinson — Registered Well Driller

COMPLETE MAIL ADDRESS: 4217 Conrad St. Manitowoc Wis.

Please do not write in space below

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS

FEB 1 1 1977

State of Wisconsin
Department of Natural Resources
Box 450
Madison, Wisconsin 53701

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15
Rev. 10–75

1. COUNTY: Manitowoc
CHECK (✓) ONE: ☑ Town ☐ Village ☐ City
Name: Two Rivers

2. LOCATION: ¼ Section: SW¼/NE¼ | Section: 3 | Township: 19 | Range: 24
OR – Grid or Street No. | Street Name:
AND – If available subdivision name, lot & block No.:

3. NAME ☑ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Raphael Greenwood
ADDRESS: Rt. 2
POST OFFICE: Two Rivers, Wis. 54241

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
8'										

Street Sewer		Other Sewers		Foundation Drain Connected to:		Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	
San.	Storm	C.I.	Other	Sewer	Sewage Sump	C.I.	Other		74'		Seepage Pit	
				Clearwater Dr.	Clearwater Sump						Seepage Bed	79'
											Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well								
		Pump								
		Tank								

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Home Use

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10"	Surface 0	27			
6"	27	84			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6"	Black Standard Steel Pipe - New 18.97# per Ft. U.S.P.E. Seamless ASTM-A-53	Surface 0	84

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Puddled Clay	Surface 0	27

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Top Soil	Surface 0	2
Red Clay	2	63
Sand & Gravel	63	83
Water Bearing Gravel	83	84

10. TYPE OF DRILLING MACHINE USED
☐ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☑ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with Air ☐ Water

Well construction completed on Feb. 3 19 77

11. MISCELLANEOUS DATA
Yield Test: 2 Hrs. at 30 GPM
Depth from surface to normal water level 12 Ft.
Depth of water level when pumping 25 Ft. Stabilized ☑ Yes ☐ No

Well is terminated 12 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to Madison laboratory on Feb. 7 19 77

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Roger P. Weber Registered Well Driller

Complete Mail Address: Rt 2 Chilton, Wis. 53014

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev. 12-76

APR 1 1980

1. COUNTY: Manitowoc | CHECK (✓) ONE: ☒ Town ☐ Village ☐ City | Name: Two Rivers

2. LOCATION: ¼ Section: SW | Section: 10 | Township: 20 | Range: 24
OR – Grid or Street No. | Street Name: | or T19N ?
AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Leroy Beals
ADDRESS: 2105 West St.
POST OFFICE: Two Rivers Wis.

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
20	—	—	50	—	—	—	—	—	—	—

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Foundation Drain Connected to: Clearwater Dr.	Sewage Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit
—	—	—	—							75	—	Seepage Pit; Seepage Bed 85; Seepage Trench

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
—	—	Well; Pump —; Tank								

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Home use

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	20	6	20	126

7. CASING, LINER, CURBING AND SCREEN
Material, Weight, Specification & Method of Assembly

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	steel std 1897 new black welded joints ERWB NKK astem A53	Surface	110

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
drill slurry	Surface	20

9. FORMATIONS

Kind	From (ft.)	To (ft.)
sand	Surface	38
sandy clay	38	97
hard pan	97	110
limestone	110	126

10. TYPE OF DRILLING MACHINE USED
☐ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☒ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with Air ☐ Water

Well construction completed on March 27 19 80

11. MISCELLANEOUS DATA
Yield Test: 3 Hrs. at 20 GPM
Depth from surface to normal water level 16 Ft.
Depth of water level when pumping 28 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 16 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Dairyland - Manitowoc laboratory on 3-27 19 80

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Joseph Rehm Registered Well Driller

Complete Mail Address: 4717 Concord Ct. Manitowoc Wis

STATE OF WISCONSIN

WELL CONSTRUCTOR'S REPORT

DEPARTMENT OF RESOURCE DEVELOPMENT

Wel 6

1. COUNTY: Manitowoc | CHECK ONE: ☒ Town ☐ Village ☐ City | NAME: Two Rivers

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.)
SW ¼ of Sec. 10 T 19 N R 24 ~~25~~ E

3. OWNER AT TIME OF DRILLING
Erdman Motor Co. Inc.

4. OWNER'S COMPLETE MAIL ADDRESS
1101 Franklin St. Manitowoc Wisc.

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
6	—	—	—	—	—	—	—	—

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
—	—	—	—	—	—	—	—	—	—

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

6. Well is intended to supply water for: Garage use

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	20	6	20	303

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	steel std-1945 new black T&C	Surface	108

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Drill slurry	Surface	20

10. FORMATIONS

Kind	From (ft.)	To (ft.)
sand	Surface	20
Clay	20	58
sand	58	97
hard pan	97	108
Limestone	108	303

Well construction completed on Sept. 30 — 1968

Well is terminated 24 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

11. MISCELLANEOUS DATA

Yield test: 3½ Hrs. at 50 GPM

Depth from surface to normal water level 2 FT. ~~ground~~

Depth to water level when pumping 80 ft.

Water sample sent to Madison laboratory on: Oct 1 — 1968

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Joseph Rehm Registered Well Driller

COMPLETE MAIL ADDRESS: 4217 Conrad St. Manitowoc Wis.

Please do not write in space below

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS

WELL CONSTRUCTOR'S REPORT

Wel–6

APR 2 9 1970

WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: Manitowoc | CHECK ONE: ☑ Town ☐ Village ☒ City | NAME: Two Rivers

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.)
NE ¼ of Sec. 10 T 19 N R 24 ~~E~~ E

3. OWNER AT TIME OF DRILLING
Jerry Jurkovic

4. OWNER'S COMPLETE MAIL ADDRESS
3448 Memorial Drive Two Rivers Wis.

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
15	28	–	28	–	–	–	–	~~45~~

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
–	–	75	–	–	80	–	–	Sand point 30' away	–

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

6. Well is intended to supply water for: home use

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	20	6	20	132

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	stl std 19# per foot new black Tex C	Surface	102

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Dirt slurry	Surface	20

10. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand	Surface	46
Clay	46	88
Sand fine	88	102
Limestone	102	132

Well construction completed on April 24 19 70

11. MISCELLANEOUS DATA
Yield test: 2 3/4 Hrs. at 20 GPM

Depth from surface to normal water level 14 ft.

Depth to water level when pumping 16 ft.

Well is terminated 12 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on: April 27 19 70

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE		COMPLETE MAIL ADDRESS
Joseph Rihmi	Registered Well Driller	421 Conrad St. Manitowoc, Wis

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

REV. 11–68