

Considered: \_\_\_\_\_

WATER PERMIT NO. 5605-3

Phone: 339-7060

Name of Applicant: Sioux Falls Park & Rec Dept.

Post Office Address: 600 East 7th St, Sioux Falls SD 57105

Amount of Water Claimed: 1.5 Total Acres: 170

Source of Water Supply: groundwater - 5 wells

Water to be used for: irrigation County: Minnehaha

About \_\_\_\_\_ miles \_\_\_\_\_ of \_\_\_\_\_

PROOF OF PUBLICATION: Received \_\_\_\_\_ Not Received \_\_\_\_\_

APPLICATION: Approved \_\_\_\_\_ Subject to \_\_\_\_\_

F.F.& C/.L. Adopted \_\_\_\_\_ Not Approved \_\_\_\_\_ Deferred \_\_\_\_\_

PRIORITY \_\_\_\_\_ Date Received: 12-26-91 Fee: \$250<sup>00</sup> Remarks Invoice sent

1-3-92 Application for proposed golf course

Corrected Application Received \_\_\_\_\_ Period of Annual Use April 1 - Oct 31

WATER QUALITY APPROVAL RECEIVED 1-8-92 APPROVED/CONDITIONAL (Circle one)

WI-1 Description same as Application YES X NO \_\_\_\_\_ REMARKS \_\_\_\_\_

Diversion Point: SW 1/4 NW 1/4 Sec 33-T101N-R49W

Land to be Irrigated: SW 1/4, W 1/2 SE 1/4 Sec 11;

NW 1/4 Sec 14; N 1/2 SE 1/4 Sec 10; T100N-R50W

S 1/2 NW 1/4 Sec 33-T101-R49W

|  |  |    |  |               |  |
|--|--|----|--|---------------|--|
|  |  |    |  |               |  |
|  |  | 33 |  |               |  |
|  |  |    |  | Minnehaha Co. |  |
|  |  |    |  | Lincoln Co.   |  |
|  |  |    |  |               |  |
|  |  |    |  |               |  |
|  |  |    |  |               |  |
|  |  |    |  |               |  |
|  |  |    |  |               |  |
|  |  |    |  |               |  |

Well Log: Driller: Lacey Well Drilling Licensed YES X NO \_\_\_\_\_

Depth of Well: 25' REMARKS \_\_\_\_\_

Type of Map: plat PREPARED BY: Richard F. Sayre Reviewed and the Number

Assigned on 1-10-92 By Karen Schlaak

**SOUTH DAKOTA**  
**WATER PERMIT No. 5605-3 FOR IRRIGATION**

Date of first receipt of application December 26, 1991.  
Date Soil/Water Compatibility Permit received January 8, 1992.  
Date of return to applicant for corrections, amendments or changes  
January 2, 1992.  
Date of receipt of completed application February 3, 1992.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 5605-3 to Sioux Falls Park & Recreation Department, 600 East 7th St, Sioux Falls SD 57105 authorizing the construction of the water use system and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 5605-3 appropriates 1.5 cubic feet of water per second from five wells (Big Sioux:South Aquifer) approximately 25 feet deep located in the S 1/2 NW 1/4 Section 33-T101N-R49W to irrigate 170 acres located in the SW 1/4, W 1/2 SE 1/4 Section 11; NW 1/4 Section 14; N 1/2 SE 1/4 Section 10; all in T100N-R50W and the S 1/2 NW 1/4 Section 33-T101N-R49W.
2. The amount of the appropriation may not exceed 2 acre feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: April 1 - October 31.
3. The date from which applicant may claim right is December 26, 1991.
4. The date of approval of Permit No. 5605-3 is April 22, 1992.
5. One-fifth of the construction is to be completed on or before October 22, 1994.
6. All construction is to be completed on or before April 22, 1997.
7. Water is to be put to beneficial use on or before April 22, 2001.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

**QUALIFICATIONS**

1. The wells approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The wells authorized pursuant to this permit shall be constructed by a licensed well driller and construction shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04.

(continued)

Water Permit No. 5605-3  
Page 2

3. This permit is approved subject to the irrigation water use questionnaire being submitted each year.

**WATER MANAGEMENT BOARD**

By: John Hatch  
Chief Engineer, Water Rights Division  
Department of Environment and Natural Resources

APR 24 1992  
date

No. 5605-3 Hydrologic Unit 10170203  
Basin Big Sioux River  
Newspaper The Argus Leader, PO Box 5034



Sioux Valley News, Box 255, Canton 57013 (Thurs) 57117-5034

☒ New      ☐ Vested Right      ☐ Amend Permit No. \_\_\_\_\_

☐ Change Acreage      ☐ Change diversion point(s)      ☐ Add diversion point(s)

☐ Add Acreage      ☐ Increase diversion rate      ☐ Other \_\_\_\_\_

Sioux Falls Park &amp; Rec. Department

1. Name of Applicant City of Sioux Falls Phone No. 339-7060

Post Office Address 600 East 7th Street Sioux Falls State SD 57105  
(Street, R.R. or Box) (City) Zip Code

2. Amount of water claimed (c.f.s) 1.5 Total acres irrigated 170

3. Source of Water supply 5 Wells

4. Location of point of diversion: 901 Feet North of the West 1/4 Corner of Section 33, T 101 N, R 49 W, Minnehaha County, So. Dak.; thence east a distance of 1927 feet to the well site #1 (SW 1/4 NW 1/4) County Minnehaha

5. Counties where water will be used Minnehaha & Lincoln

6. Annual period during which water is to be used Golfing Season April 1 - October 31

7. List below each forty acre subdivision, or lot, or fraction thereof and show number of acres to be irrigated in each.

| Land Description                 |           | No. Acres Irr. |
|----------------------------------|-----------|----------------|
| SW $\frac{1}{4}$                 | 11-100-50 | 60             |
| NW $\frac{1}{4}$                 | 14-100-50 | 50             |
| W $\frac{1}{2}$ SE $\frac{1}{4}$ | 11-100-50 | 25             |
| N $\frac{1}{2}$ SE $\frac{1}{4}$ | 10-100-50 | 25             |

Account short if more space is needed

8. Type of Irrigation: Gravity: \_\_\_\_\_ Towline: \_\_\_\_\_ Center Pivot: \_\_\_\_\_ Gun: \_\_\_\_\_ Other: \_\_\_\_\_ Under-  
(Specify) Sprinkler ground

9. Crops to be Irrigated: Grass

10. Give a description of proposed project. (Attach sheet if more-space is needed)

Well to provide irrigation for an eighteen hole golf course and 10 soccer fields.

**Attachments:** Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed. Attach maps, soils information and any other technical information.

STATE OF SOUTH DAKOTA)  
County of Minnehaha )<sup>ss</sup>

1. Patricia Taylor, the applicant, certify that I have read this application and examined the attached maps, that the water sample, if needed, has been taken by the required procedures and has not been adulterated or tampered with and is truly representative of the water to be used, and that the matters stated in this application are true and correct.

Signed James L. Taylor Pres

Subscribed and sworn to before me this 12 day of Dec 1991

Ronald D Becker

County Public  
Jan 1, 1994

## Supplemental Information

(type or print in ink)



## 1. Well Information - Proposed construction \*

- a) Drill Hole Diameter 12" Depth 25
- b) Casing Type steel Diameter 8 Thickness std. wt. steel
- c) Screen Type stainless steel Diameter 8 Thickness std. wt. steel
- d) Gravel Pack Thickness 2" Length of Gravel Pack 10'
- e) Depth to Top of Water Bearing Material 9'
- f) Depth to Water (ground surface to water level) 9'
- g) Distance to nearest existing domestic well:

On applicants property none On property owned by others All properties served by municipal water system.

## 2. Dugout Information Estimates

- a) Surface Dimensions \_\_\_\_\_ Depth \_\_\_\_\_
- b) Depth to water (ground surface to water level) \_\_\_\_\_

## 3. Water Storage Dams

If the proposed water use system contains one or more storage dams, please furnish the information requested below. The locations of each dam should be shown on the map submitted with the application.

- a) If a private engineering firm or government agency was involved in the design of this dam please give their name and address

\_\_\_\_\_  
\_\_\_\_\_

b) Freeboard \_\_\_\_\_

c) Crest Width \_\_\_\_\_

Crest Length \_\_\_\_\_

d) Height \_\_\_\_\_

e) Primary Outlet Capacity \_\_\_\_\_  
If Pipe, diameter \_\_\_\_\_

f) Secondary Spillway Capacity \_\_\_\_\_  
Spillway width \_\_\_\_\_

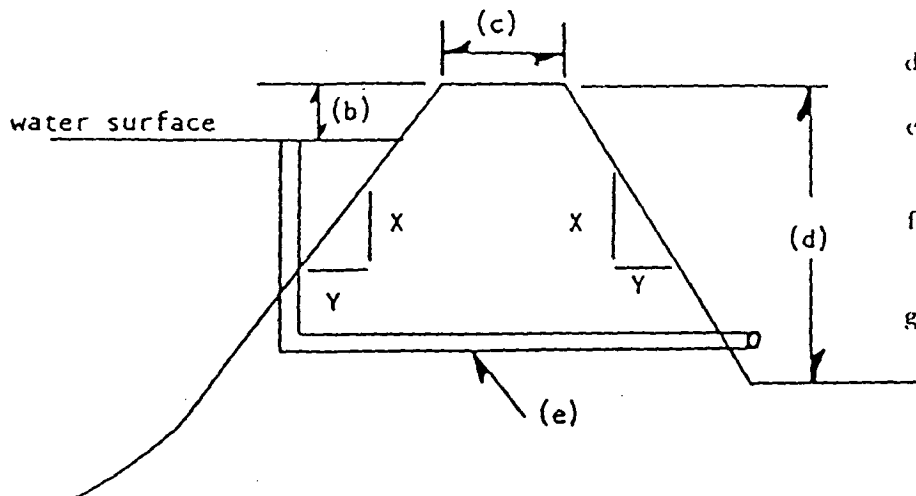
g) X & Y Slope  
Upstream \_\_\_\_\_

Downstream \_\_\_\_\_

Surface Area of Impoundment \_\_\_\_\_

Storage \_\_\_\_\_ acre feet

Drainage area above dam \_\_\_\_\_



x Pamela Taylor, Pres.  
Signature of Applicant

Department of Agriculture  
WI#1  
5/87

SOIL/WATER COMPATIBILITY PERMIT  
Division of Conservation

Office Use Only

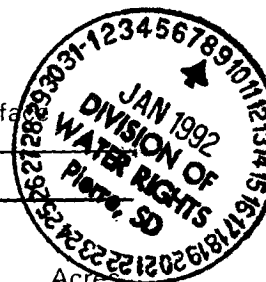
WR#

OWNERS NAME: STONE HILLS FARM & ESTATE OWNERS ADDRESS: 600 E 7TH STREET  
STONINGTON, IA 52158-1000  
COUNTY LAND LOCATED IN: LINCOLN PHONE: 339-7060

LEGAL DESCRIPTION: SW 1/4, NW 1/4, S5-T14N-R49W  
1. LOCATION \_\_\_\_\_

☒ Well's

☐ Surface



Depth \_\_\_\_\_

| Legal Description            | Acres | Legal Description            | Acres |
|------------------------------|-------|------------------------------|-------|
| SW 1/4, NW 1/4, S5-T14N-R49W | 60    | SW 1/4, NW 1/4, S5-T14N-R49W | 60    |
| SW 1/4, NW 1/4, S5-T14N-R49W | 60    | SW 1/4, NW 1/4, S5-T14N-R49W | 60    |
| SW 1/4, NW 1/4, S5-T14N-R49W | 60    | SW 1/4, NW 1/4, S5-T14N-R49W | 60    |
| SE 1/4, NW 1/4, S5-T14N-R49W | 60    | SE 1/4, NW 1/4, S5-T14N-R49W | 60    |

2. TYPE OF IRRIGATION: GRAVITY: \_\_\_\_\_ TOWLINE: \_\_\_\_\_ CENTER PIVOT: \_\_\_\_\_ GUN: \_\_\_\_\_ OTHER: Center Pivot  
(Specify) \_\_\_\_\_

3. CROPS TO BE IRRIGATED: Grass

WATER QUALITY:

4. WATER SAMPLE NUMBER: 1-5575

7. ADJUSTED (SAR): 1

5. SALINITY (EC X 10%): 600

8. PERCENT SODIUM: 11.27

6. SODIUM (SAR): 0.55

Requirements:

The areas mapped as Chandler-Gran Complex, 9-15% slope, eroded (Sk2); Ardmore-Gran Complex, 9-17% slope, eroded (Op2) and Moody-Gora silty clay loams, 8-10% slope, eroded (R1) are subject to severe erosional hazards. These areas shall not be irrigated on slopes greater than 10% and additional measures should be taken to control erosion on slopes less than 10%.

The area mapped as Chester clay loam channeled (L1) should be maintained as pastureland and shall not be irrigated.

The areas mapped as Tacona silty clay loam (R2); Chandler-Gran silty clay loam (R1) and Viborg silty clay loam are subject to extreme channeling. These areas shall not be irrigated, adequately drained; i.e., till drainage.

A buffer strip shall be maintained and shall not be irrigated along the drainage line.

Please be advised, we do not consider an irrigation or water permit to be a record. It is recommended that you obtain a record of the permit, and that you obtain a record of the permit from the Division of Conservation.

☒ APPROVED ☒ REQUIREMENTS  
☐ DISAPPROVED  
☐ WAIVER

\_\_\_\_\_  
Director, Division of Conservation

\_\_\_\_\_  
Date

Soil/water permits will be recorded by the Department of Agriculture, with the County Register of Deeds.



PARKS & RECREATION DEPARTMENT  
600 East 7th Street  
Sioux Falls, SD 57102-0496  
Phone/TDD (605) 339-7060  
Fax (605) 335-4326



December 20, 1991

Mr. Eric Gronlund  
Water Rights Division  
Department of Environment and Natural Resources  
Pierre, SD 57501

Dear Mr. Gronlund:

Enclosed you will find an application for a water right permit for a new golf course and park development here in Sioux Falls. I believe we have included all of the necessary information for your review process. A separate water analysis has been mailed to you I believe by the Water Institute at South Dakota State University.

The necessary fee of \$250 will be paid by the City of Sioux Falls Park and Recreation Department on a purchase order that we will process as soon as the application process has been completed. If this is not acceptable, please let me know and I can provide you with the purchase order number. If you have any questions or need additional information, please feel free to contact me.

Sincerely,

Larry Weires  
Park Development Specialist

Enclosure

Conversation File Documentation

NAME OF PERSON OR FILE: Sioux Falls Park & Rec. Dept., City of Sioux Falls

ADDRESS: \_\_\_\_\_ COUNTY: Minnehaha

DATE: 1/2/92 TELEPHONE: \_\_\_\_\_

RE: Discussion with Dick Sayre, Engineer on the project

COMMENTS:

Mr. Sayre returned my phone call regarding my questions on the application submitted for a new golf course.

1. How many wells will be required? Mr. Sayre stated that up to 5 wells may be used in developing the watering system for the course. The wells would all be located in the SW1/4 NW1/4 Section 33, T101N, R49W.
2. The legal descriptions of the acres in the SE1/4 Section 10 and SE1/4 Section 11 are overly broad. Mr. Sayre stated the irrigation would only take place in the N1/2 SE1/4 Section 10 and the W1/2 SE1/4 Section 11; all in T100N, R50W.
3. I stated that some of the S1/2 NW1/4 Section 33, T101N, R49W on the application may be included on Water Right No. 218-3. WR No. 218-3 includes irrigation of acreage in the E1/2 NW1/4 Section 33, T101N, R49W from the Big Sioux River. Mr. Sayre stated that the Big Sioux River source would no longer be used.

Mr. Sayre asked me to make the necessary amendments to the application to reflect our discussions as listed above in items 1 & 2.

File in Permit or other file as necessary. Use to document conversations and what the other party was told; why action or decision was made.

NAME: Eric Threlund

# RECEIPT

## Division of Water Rights

### South Dakota Department of Water and Natural Resources

Pierre, February 4, 19 92

RECEIVED OF Finance Department, City of Sioux Falls, Sioux Falls, SD 57102

the following amount in fees for services rendered as provided for by law:

|                                                                                                                                    |       |        |
|------------------------------------------------------------------------------------------------------------------------------------|-------|--------|
| Fee for Application for Permit No. <u>5605-3</u> to Appropriate Water, to construct works and to put water to beneficial use _____ | 250   | 00     |
| Fee for Application for Permit No. _____ to Appropriate Water for Future Use _____                                                 |       |        |
| Fee to retain Future Use Permit No. _____ after period of seven years.                                                             |       |        |
| Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. _____                                |       |        |
| Fee for Filing Transfer Form _____                                                                                                 |       |        |
| Fee for Filing Extension Request _____                                                                                             |       |        |
| Fee for Certified Copy of _____                                                                                                    |       |        |
| Fee for Print Copy of Map _____                                                                                                    |       |        |
| Fee for Certifying _____                                                                                                           |       |        |
| Fee for _____                                                                                                                      |       |        |
| (Any Other Work Provided by Law)                                                                                                   | Total | 250 00 |

By John Hatch  
Chief Engineer



**DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES**

JOE FOSS BUILDING  
523 EAST CAPITOL  
PIERRE SOUTH DAKOTA 57501-3181

\*\*\*\*\*  
\* I N V O I C E \*  
\*\*\*\*\*

Invoice No. 20411 1-3

Larry Weires, Park Development Specialist  
Parks & Recreation Department  
600 East 7th Street  
Sioux Falls SD 57102-7060

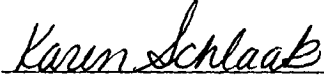
Your Purchase Order #: 34880

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Application for Permit to Appropriate Water  
Within the State of South Dakota

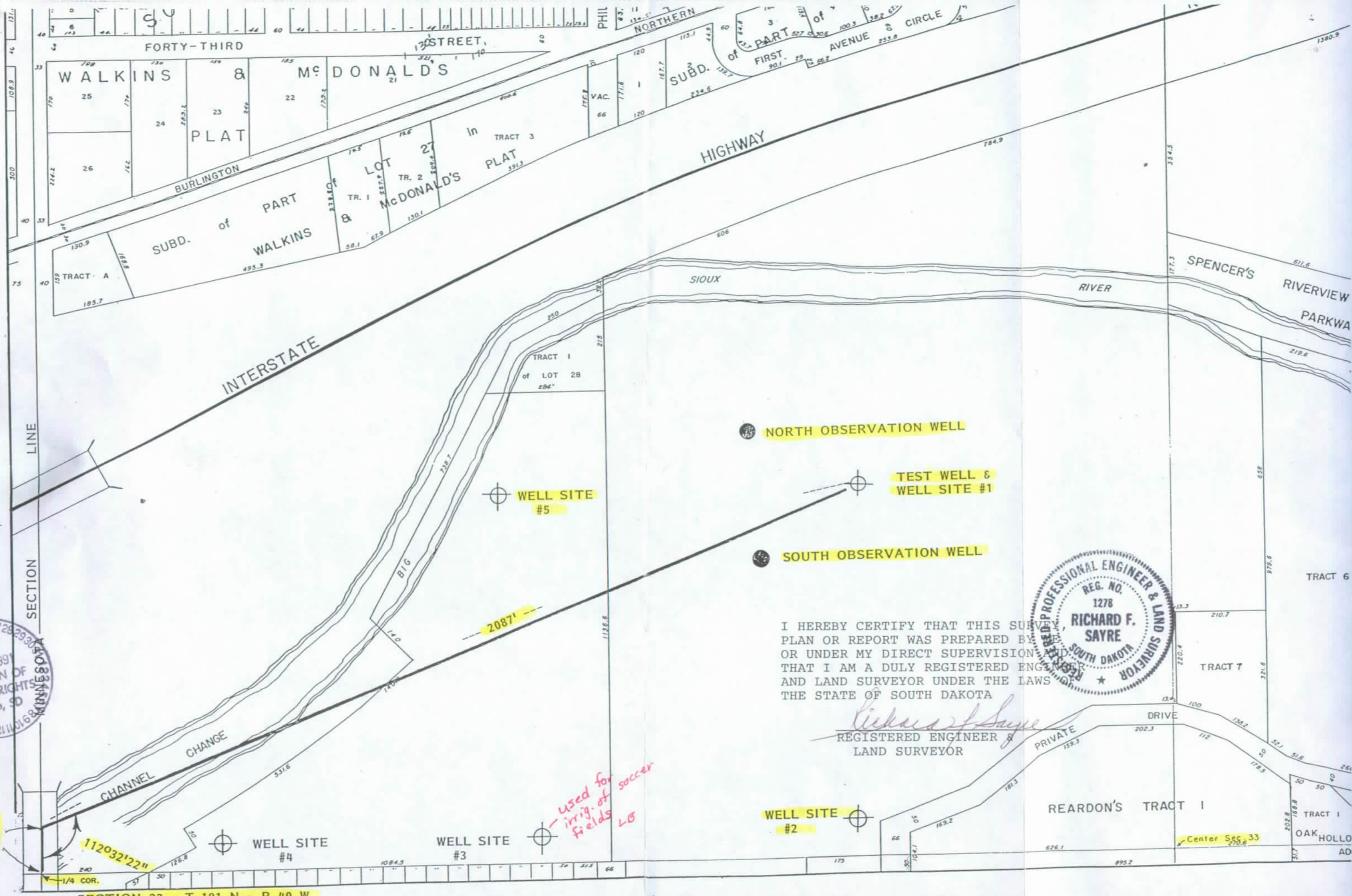
\$250.00

-----  
Please pay this amount:

\$250.00

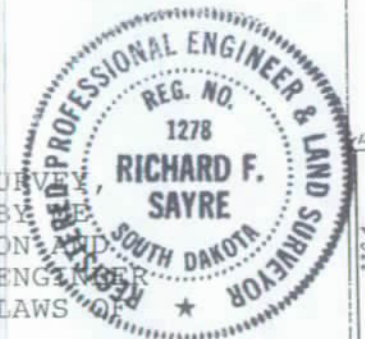
  
KAREN SCHLAACK  
Natural Resources Analyst  
Water Rights Division  
605 773-3352

DEC 1991  
DIVISION OF  
WATER RIGHTS  
Pierre, SD

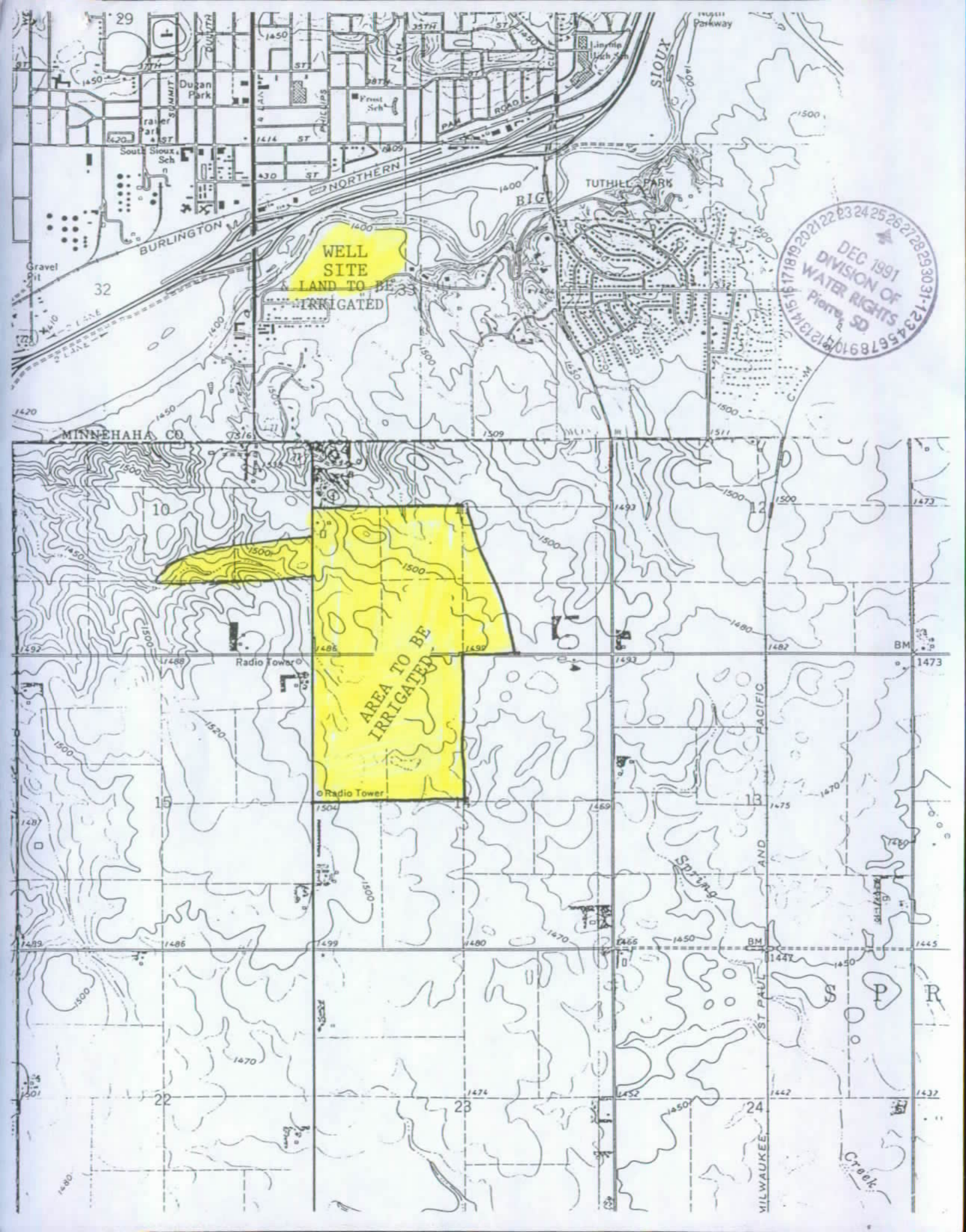


I HEREBY CERTIFY THAT THIS SURVEY  
PLAN OR REPORT WAS PREPARED BY ME  
OR UNDER MY DIRECT SUPERVISION AND  
THAT I AM A DULY REGISTERED ENGINEER  
AND LAND SURVEYOR UNDER THE LAWS  
OF THE STATE OF SOUTH DAKOTA

*Richard F. Sayre*  
REGISTERED ENGINEER &  
LAND SURVEYOR



used for  
irrig. of soccer  
fields LB



DEC 1991  
DIVISION OF  
WATER RIGHTS  
Pierre, SD

WELL  
SITE  
LAND TO BE  
IRRIGATED

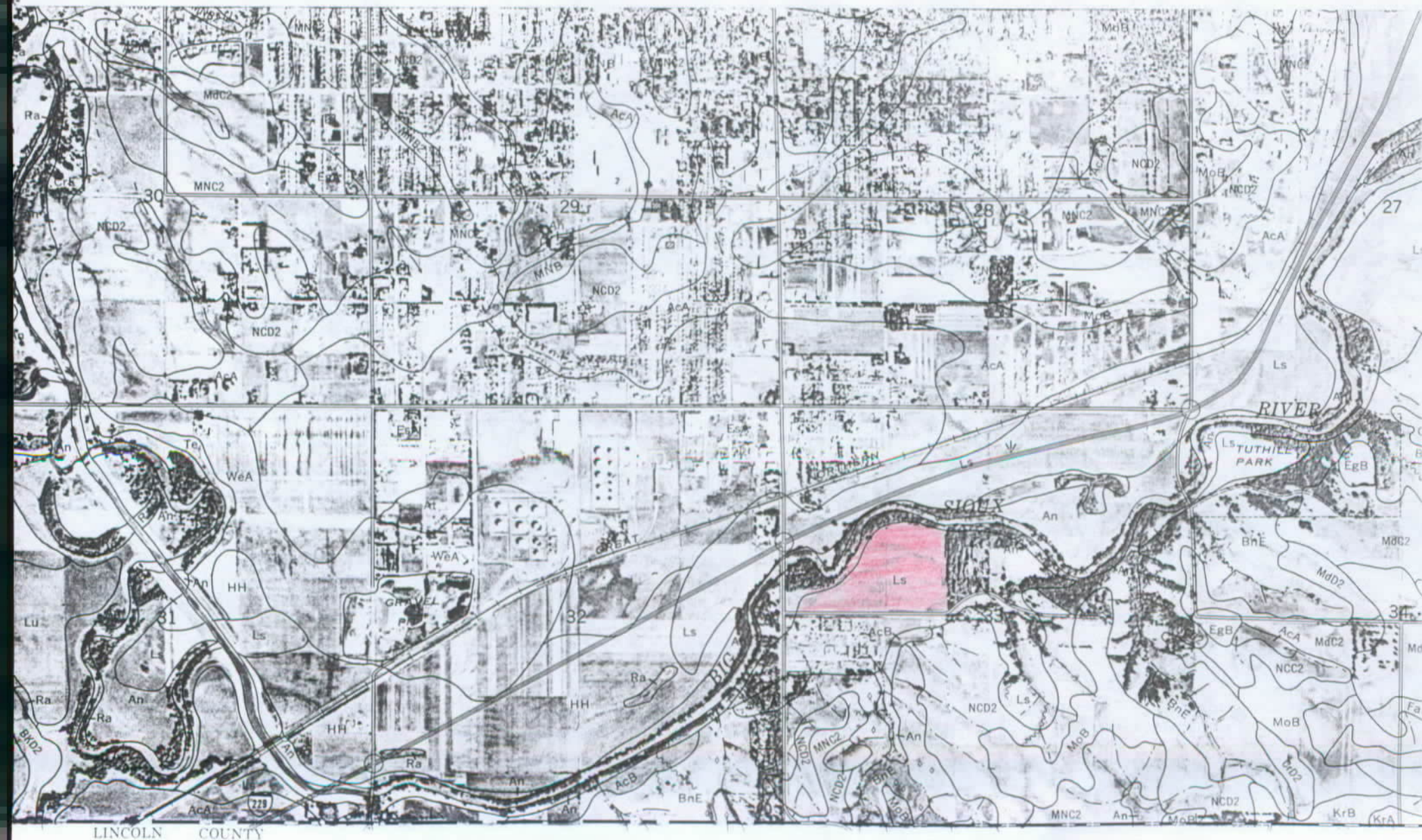
AREA TO BE  
IRRIGATED



SOILS MAP ACCOMPANYING APPLICATION FOR SOIL/WATER  
COMPATIBILITY PERMIT AND PERMIT TO APPROPRIATE WATER

SUBMITTED BY THE CITY OF SIOUX FALLS

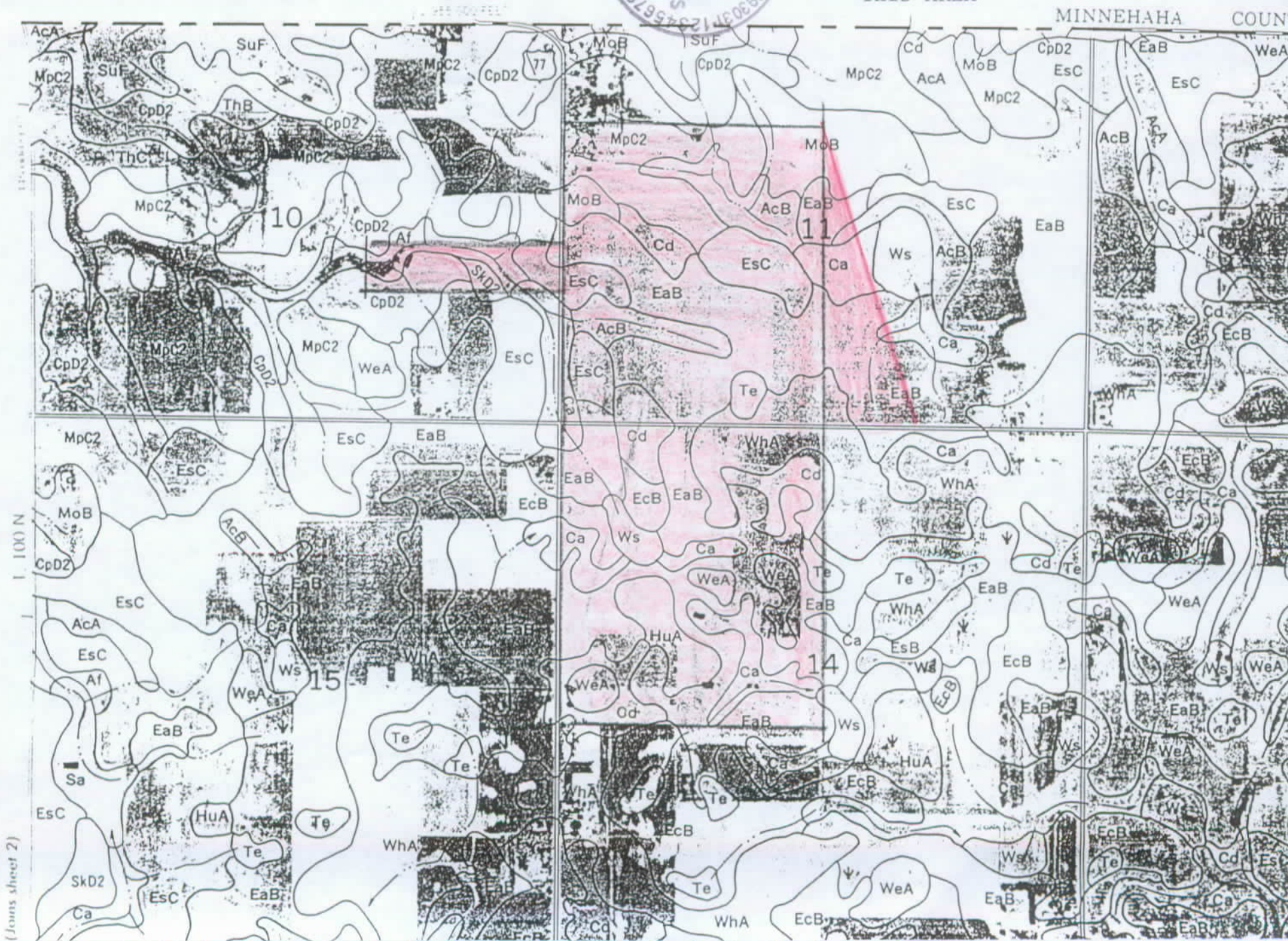
NOTE: THE ENTIRE AREA SHADED IN RED WILL NOT BE  
IRRIGATED (ONLY THE SOCCER FIELDS AS THEY  
ARE LOCATED)



SOILS MAP ACCOMPANYING APPLICATION FOR SOIL/WATER  
COMPATIBILITY PERMIT AND PERMIT TO APPROPRIATE WATER  
SUBMITTED BY THE CITY OF SIOUX FALLS

LINCOLN COUNTY, SOUTH DAKOTA

NOTE: THE ENTIRE AREA SHADED IN RED WILL  
NOT BE IRRIGATED. ONLY THE GOLF  
COURSE AS IT WILL BE LOCATED WITH-  
THIS AREA



17 ANH  
holds

In Water Since 1946

**LACEY WELL DRILLING**

Box 796

Trent, South Dakota 57065

Telephone 428-5686 or 428-5979

Wells  
Test Drilling  
Irrigation Supplies

Pumps  
Water Specialists  
Water Source Heat Pumps

2-24-90

GARY - Bill Schaffer

HERE ARE THE READINGS ON A 3 DAY pump  
test we ran 2-21-90. 2-24-90.

The well depth is 24' from top of casing to bottom  
of well. the 2 points ARE SCREENED from 18-21'  
WELL. Aquifer depth varies from 24 to 26' total  
with the water level at 10'.

STARTED test at noon 2-21-90 SWL WELL = 10'0"

SWL N point 10'2" SWL S point 9'10"

7:45 PM 2-21 PM SWL WELL 23' @ 1309 PM N point 10'5 1/2"  
S point 9'10"

7:10 AM 2-22 WELL 23' @ 1309 PM N point 10'6" S point 10'0"  
S point 10'1 1/2"

7:10 AM 2-22 WELL SAME (23') N point 10'7 1/4" S point 10'4 1/2"

7:20 PM 2-22 WELL SAME (23') N point 10'9 1/4" S point 10'2 1/2"

4:40 AM 2-23 WELL @ 1209 PM @ 23' N point 10'7" S point 10'4 1/2"

7:25 PM 2-23 WELL @ 1209 PM @ 23' N point 10'5 1/2" S point 10'4 1/2"

7:40 AM 2-24 WELL @ 9:24 AM 11'0"

WELL @ 8:53 AM 11'2" WELL at 9:24 AM 11'0"

but off (8:40) N point 10'9" S point 10'2 1/4"

WELL @ 2:15 PM 10'7" N point 10'4" S point 10'0"

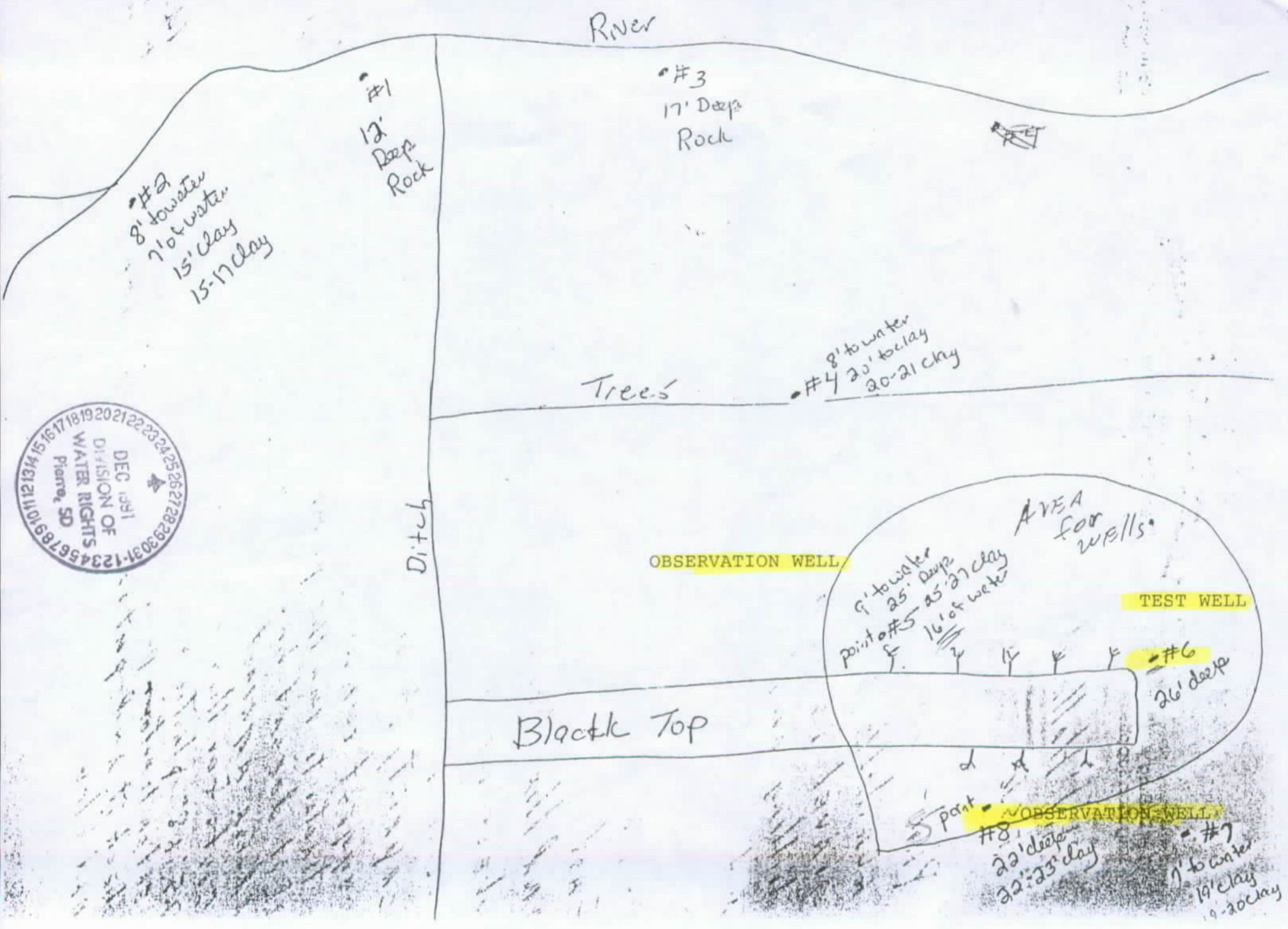
WELL @ 5:10 PM 2-24 10'7" N " 10'3 1/2" S point 9'6"

WELL @ 6:10 PM 2-26 10' 1/2" N " 10'3 1/2" S point 9'6"



MAPACH

IN Test Drilling 1-16-90 in Tomar Park - LACEX Well Drilling → E



Theoretical dd @ well @ 1 day =

$$r = \frac{264(130)}{4000} \log \frac{0.3(40,000)}{(0.83)(0.15)}$$

$$= \underline{4.3'} @ 130 \text{ gpm}$$

330  
186

$$4.3 \div 0.80 \div 0.70 \Rightarrow 7.7' \text{ dd}$$

(eff. 1/3 screened w/ 80% eff)

$$\frac{130}{7.7} = 17 \text{ gpm/ft @ 1 day}$$

$$AS = 0.60 @ 130 \text{ gpm} \Rightarrow 0.6 @ 100 \text{ gpm}$$

Say 12' avail. dd. ( $\Rightarrow$  4' screen)

$$\text{Say } 6' \text{ 1-day dd, initially} \Rightarrow 100 \text{ gpm @ } 17 \text{ gpm/ft}$$

$$10\text{-day dd} = 6' + 0.6 = 6.6'$$

$$100\text{-day dd} = 6.6 + 0.6 = 7.2'$$

Say have 3 more wells @ 200' spacing

$$\text{Mutual interference} \approx 1.6' / \text{well} \Rightarrow 4.8'$$

$$7.2' + 4.8' = \underline{12' \text{ total}}$$



Test pump results  
as interpreter from  
Laceywell Drilling  
Results

Here are the readings on a 3 day pump test we ran 2/21/90 to  
2/24/90:

The well depth is 24' from top of casing to bottom of well. The  
2 points are screened from 18'-21'. Well depth varies from 24'  
to 26' total with the water level at 10 feet.

Start test at noon 2/21/90 - static water level well = 10'0"  
Static water level N. point 10'2"  
Static water level S. point 9'10"

7:45 p.m. 2/21/90 pwl well 23' @ 130 gpm  
N point 10'5-1/2"  
S point 9'10"

7:10 a.m. 2/22/90 well 23' @ 130 gpm  
N point 10'6"  
S point 10'0"

5:30 p.m. 2/22/90 well 23' @ 120 gpm  
N point 10'7-1/4"  
S point 10'1-1/2"

8:40 a.m. 2/23/90 well 23' @ 120 gpm  
N point 10'9-1/4"  
S point 10'4-1/2"

5:25 p.m. 2/23/90 well @ 23' @ 120 gpm  
N point 10'7"  
S point 10'2-1/2"

8:40 a.m. 2/24/90 well @ 23' @ 120 gpm  
N point 10'8-1/4"  
S point 10'4-1/2"

Pump shut off @ 8:40 a.m. 2/24/90

8:53 a.m. 2/24/90 well 11'2"  
9:24 a.m. 2/24/90 well 11'0"  
2:15 p.m. 2/24/90 well 10'7"  
N point 10'7"  
S point 10'2-3/4"

8:10 p.m. 2/24/90 well 10'7"  
N point 10'4"  
S point 10'0"

6:10 p.m. 2/26/90 well 10'0-1/2"  
N point 10'3-1/2"  
S point 9'6"

2/ds/tp



Date Reported: March 16, 1990  
Date Received: March 9, 1990  
Sample Code No.: 7208-1  
Submitted By: Phil Helland  
Transaction No.: 0-0438  
Page No.: 1 of 1

**ATC** ENVIRONMENTAL INC.  
1515 East Tenth Street  
Sioux Falls, SD 57103-1721  
(605)338-0555

Sample Identification:

Phil Helland  
Lakeland Nursery  
P.O. Box 1669  
Sioux Falls, SD 57101

RE: Well Water

PARAMETER

TEST RESULT

METHOD CODE

7208-1:

|                    |                             |   |
|--------------------|-----------------------------|---|
| 1. Calcium         | 114 mg/l                    | 5 |
| 2. Magnesium       | 38 mg/l                     | 5 |
| 3. Potassium       | 1.2 mg/l                    | 5 |
| 4. Sodium          | 59 mg/l                     | 5 |
| 5. pH              | 7.2 units                   | 5 |
| 6. Nitrate         | 2.3 mg/l                    | 5 |
| 7. Sulfate         | 62 mg/l                     | 5 |
| 8. Chloride        | 40.1 mg/l                   | 5 |
| 9. Alkalinity      | 383 mg/l as $\text{CaCO}_3$ | 5 |
| 10. Conductivity   | 87.3 um/cm                  | 5 |
| 11. Hardness       | 441 mg/l as $\text{CaCO}_3$ | 5 |
| 12. Total Coliform | < 1 col/ 100 mls            | 5 |

Note: < = less than  
> = greater than



*Darnell Nehlich*

Authorized Signature

Darnell Nehlich, Operations Manager

Technician's Signature

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis.

# ATC ENVIRONMENTAL INC.

## DRINKING WATER PARAMETERS

| <u>Parameters</u>         | <u>US EPA Maximum<br/>Contaminant Level</u> | <u>Relative to<br/>Sioux Falls Region</u>                                                                                                                                              |
|---------------------------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Chloride               | 250 mg/l                                    | Very high - very few water supplies have chloride this high, water would have a noticeable salt taste                                                                                  |
| 2. Zinc                   | 5 mg/l                                      | Very high - very few supplies have this much zinc                                                                                                                                      |
| 3. Copper                 | 1.0 mg/l                                    | Very high                                                                                                                                                                              |
| 4. Total Dissolved Solids | 500 mg/l                                    | Low - this region has very mineralized water that is frequently greater than 500 mg/l in Total Dissolved Solids, generally causes scale build-up and "lime" on fixtures and appliances |
| 5. Sulfate                | 250 mg/l                                    | Normal - Levels higher than this frequently cause digestive system upsets                                                                                                              |
| 6. Iron                   | 0.3 mg/l                                    | Normal - Many local water supplies are higher than this and they have taste and staining problems                                                                                      |
| 7. Manganese              | 0.05 mg/l                                   | Normal - Some local water supplies are higher than this and they have staining problems                                                                                                |
| 8. pH                     | 6.8 - 8.5 Units                             | Normal - Anything outside of this range is usually corrosive                                                                                                                           |
| 9. Fluoride               | ----                                        | Sioux Falls adds fluoride to make it 1.2 mg/l, concentrations greater than 2.0 mg/l cause stains on teeth and much higher concentrations cause more serious dental problems            |
| 10. Nitrates              | 10 mg/l                                     | Normal - Many water supplies are higher than this and no problems are experienced but the risk is great                                                                                |
| 11. Hardness              | ----                                        | Water more than 15 grains hard (250 mg/l) causes scale build-up                                                                                                                        |
| 12. Coliforms             | < 1/100 mls                                 | Normal - Coliforms should be absent as they indicate biological contamination                                                                                                          |
| 13. Sodium                | ----                                        | Very few water supplies are greater than 20 mg/l unless a water softener is used in which case the water may reach > 200 mg/l                                                          |
| 14. Conductivity          | ----                                        | As a measure of the total minerals dissolved, it should be less than 1500 umho/cm                                                                                                      |
| 15. Alkalinity            | ----                                        | A measure of the buffering capacity, values around 100 mg/l are normal                                                                                                                 |

< - less than  
> - greater than

*Solutions For Environmental Concerns*





**US Army Corps  
of Engineers**  
Omaha District

# Public Notice

**Reply to:**  
Pierre Regulatory Branch  
Federal Building, Room 317  
Pierre, South Dakota 57501

**Application No:** 199230294  
**Date:** June 30, 1992  
**Expiration Date:** July 21, 1992

CEMRO-OP-R  
City of Sioux Falls  
Fill  
Wetlands

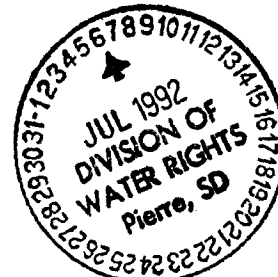
**21-DAY NOTICE**

## **NOTICE OF PERMIT PENDING**

The application of the City of Sioux Falls, Parks and Recreation Department, 600 East Seventh Street, Sioux Falls, South Dakota 57102-0496, for approval of plans and issuance of a permit under authority of the Secretary of the Army is being considered by the District Engineer, US Army Engineer District, Omaha, Nebraska.

The applicant requests authorization to place fill material in wetlands in conjunction with the construction of a public golf course. The project is located on the southern edge of Sioux Falls in Sections 11 and 14, Township 100 North, Range 50 West, Lincoln County, South Dakota.

The proposed project will consist of placing fill material in several wetlands in conjunction with the construction of a public golf course (Prairie Green Golf Course). The golf course is proposed to be constructed concurrently with a residential/commercial development (Prairie Green Development) which is to be constructed in and around the golf course. The residential/commercial development is a private venture and is being considered for separate Department of the Army authorization under the provisions found at 33 CFR § 330, Appendix A, (B) (26), i.e., Nationwide General Permit No. 26. However, because of the direct relationship of these two (2) projects, the impacts of the housing development project will be considered, as appropriate, within the scope of this proposed project.



The Prairie Green Golf Course will be owned, constructed and maintained by the City of Sioux Falls. The property surrounding the golf course will be developed as a residential/commercial complex by Prairie Green, Inc., a private organization. The golf course and the development area encompasses a total area of three hundred seventy-seven (377) acres (golf course area equals one hundred seventy-one (171) acres; development area equals two hundred six (206) acres). Currently one and one-half ( $1\frac{1}{2}$  or 1.5) to three (3) acres of wetland is proposed to be filled in association with implementation of the residential/commercial development project.

The proposed golf course project will consist of placing fill material in ten (10) identified wetlands. The total wetland acreage within the golf course project area is 32.62 acres. All of the wetland areas are classified as farmable by the US Soil Conservation Service. Of the 32.62 acres of wetlands, 25.84 acres will be directly impacted by the project (18.89 acres filled and 6.95 acres excavated). The area of undisturbed wetlands will be 6.78 acres (see attached drawings and the summary table on sheet 1 of 10 for details).

The applicant is proposing mitigation measures to include a combination of actions (reclamation of drained wetlands, vegetative cover and runoff storage and detention both on and off site) as follows:

1. Reclaim previously drained wetland on the property at location D.
2. Develop grass vegetation buffer strips a minimum of fifty (50) feet wide, adjacent to all net wetland acres (20.59 acres).
3. Construct 1.33 acres of new vegetative wetlands on the property.
4. Construct 12.48 acres of open water impoundments. Of the 12.48 acres of open water, 6.95 acres will be created by excavation in existing wetlands and 5.53 acres will be created by excavation of existing uplands.
5. Off site reclamation of approximately 18.89 acres of previously drained wetlands, or the equivalent thereof, at a site to be designated prior to starting any fill activity. Priority for mitigation sites will be given to the following potential sites;
  - a. Area within the Sioux Falls Outdoor Skills Learning Center on the Big Sioux River in Sioux Falls, as generally defined in the Master Plan Study by Inside Outside, Inc.

b. Identified project enhancement areas in the Sioux Falls area, i.e., Wall Lake, etc.

c. Individual land tracts in the migratory flight path located generally west of the City of Sioux Falls.

d. Land identified with the assistance of interested State and Federal agencies.

The purpose of the project is to provide a public golf course to serve the City of Sioux Falls and the general public of the area.

**Additional Information:**

The City of Sioux Falls has identified an unmet recreational need for additional public golfing facilities. The one hundred seventy-one (171) acres to be used for the golf course development were selected to include most of the wetland acres within the total development area. The project area land is currently farmed, but it is zoned for the proposed use. The proposed open water pond levels will be stabilized with water pumped to the ponds from off-site (Big Sioux River). The ponds will be utilized as a water source for the golf course irrigation system. The long range development plan will include tree and shrubbery planting that will provide nesting and roosting habitat for birds and golf course rough areas that will provide temporary habitat for various forms of wildlife. The removal of existing vegetation will be limited to areas necessary for construction. Topsoil will be removed from farmland areas and stockpiled for placement during the finish grading to provide a favorable regrowth environment. Construction measures for sediment and erosion control will be utilized. Fill material to be placed in the wetlands will consist of soils available from within the development property. Project construction is scheduled to be started in late summer/early fall 1992 and be completed within eighteen (18) months.

Positive wetland impacts that the project proponent believes will result in the proposed project area include the following:

a. The one hundred seventy-seven (177) acre area, which is currently farmed, will be converted to permanent vegetative cover. This cover will consist primarily of grass that will result in a reduction in erosion, an increase in infiltration and the establishment of buffer vegetation adjacent to wetlands.

b. The drain on an existing 17.24 acre wetland (area D) will be plugged or removed. The result will be the net restoration of 8.62 acres of wetland. Of this restoration 3.93 acres will be restored to original function and 4.19 acres will be changed in form to open water.

c. New open water areas, 12.48 acres, will be created. This will result in a reduction of storm water runoff volumes, an increase in infiltration potential and the creation of new wetlands and boundary wetland vegetation.

Certification that the proposed project will not violate applicable water quality standards has been requested from the Regional Administrator, US Environmental Protection Agency, Region VIII, One Denver Place, Suite 1300, 999 - 18th Street, Denver, Colorado.

In compliance with Section 106 of the National Historic Preservation Act of 1966, as amended, the National Register of Historic Places and current supplements have been consulted. There are no sites included or which have been determined eligible for inclusion therein which will be affected by the project.

In compliance with the Endangered Species Act, our review indicates that the proposed activity will not affect species designated as threatened or endangered pursuant to the Endangered Species Act or their critical habitat.

The decision whether to issue a permit will be based on an evaluation of the probable impacts including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposals must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the activity will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production, and, in general the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

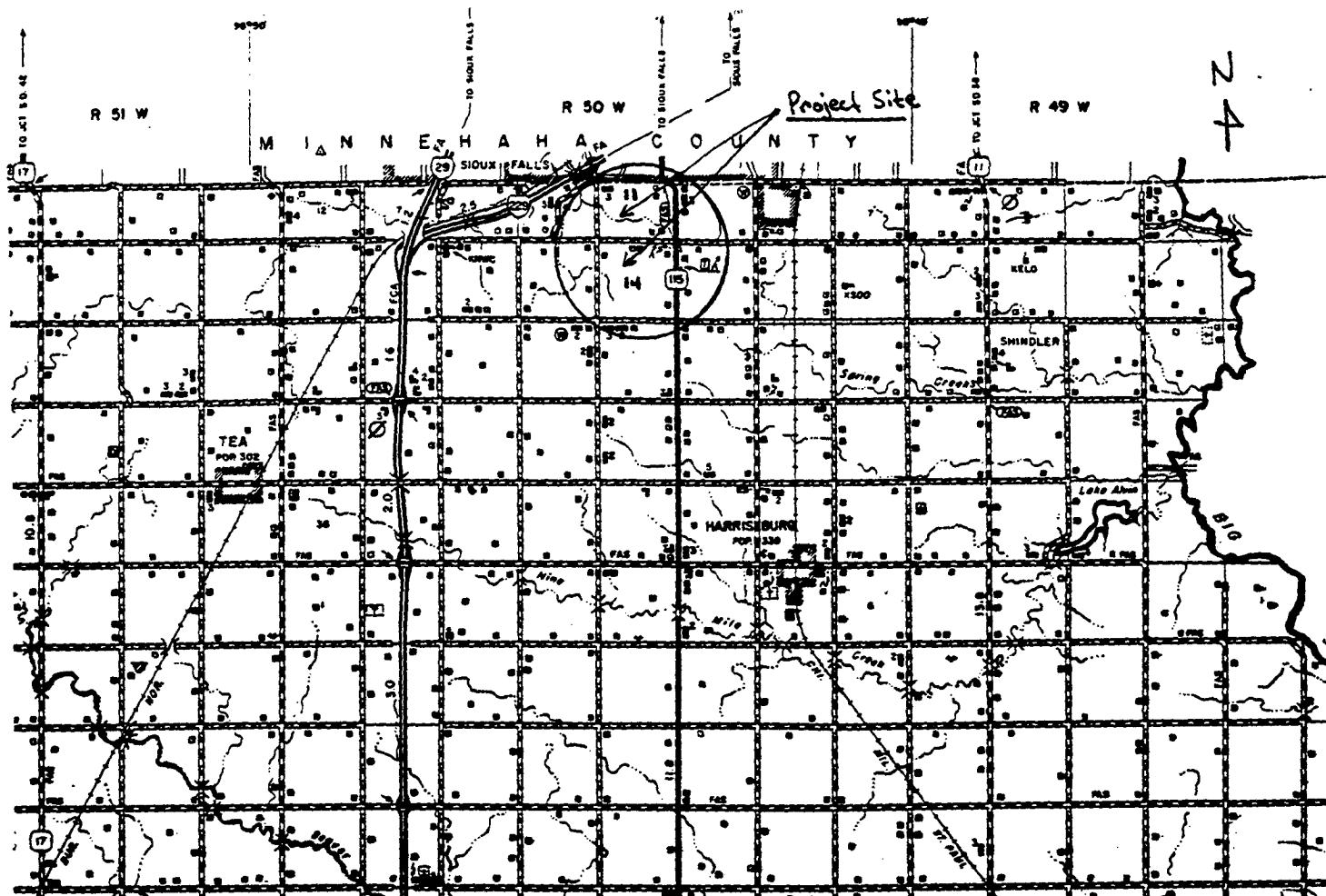
Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reason for holding a public hearing. The request must be submitted to the US Army Corps of Engineers, Pierre Regulatory Office, Federal Building, Room 317, Pierre, South Dakota 57501.

Any interested party (particularly officials of any town, city, county, state, Federal agency, or local association whose interests may be affected by the proposed work) is invited to submit to this office, written facts, arguments, or objections on or before July 21, 1992. Any agency or individual having an objection to the proposed work should specifically identify it as an objection with clear and specific reasons. Comments, both favorable and unfavorable, will be accepted, made a part of the record and will receive full consideration in subsequent actions on this permit application. All replies to the public notice should be addressed to the address listed in the previous paragraph. Steven E. Naylor, telephone number (605) 224-8531, may be contacted for additional information.

Comments received after the close of the business day on the expiration date of this public notice will not be considered.

This project, if authorize, will be under the provisions of Section 404 of the Clean Water Act.

Drawings showing the location and extent of the work are attached to this notice.



**SUMMARY OF WETLAND IMPACTS  
PRAIRIE GREEN GOLF COURSE  
SIOUX FALLS, SOUTH DAKOTA**

|                         | Location<br>Map<br>Ident | Total<br>Area<br>(ac) | Undisturbed<br>Wetlands | Filled<br>Wetland | Open Waters<br>Upgraded<br>Wetlands | Created<br>Wetlands | New<br>Vegetative<br>Wetlands | Final<br>Wetland<br>Area |
|-------------------------|--------------------------|-----------------------|-------------------------|-------------------|-------------------------------------|---------------------|-------------------------------|--------------------------|
| GOLF COURSE AREA        |                          |                       |                         |                   |                                     |                     |                               |                          |
| 1                       | A                        | 1.76                  | 0.76                    | 1.00              |                                     |                     |                               | 0.76                     |
| 3-4                     | B                        | 0.30                  | 0.05                    | 0.25              |                                     |                     |                               | 0.05                     |
| 6                       | C                        | 2.10                  | .50                     | 1.60              |                                     | 3.4                 |                               | 3.90                     |
| 6-7-8                   | D                        | 17.24                 | 3.93                    | 9.12              | 4.19                                |                     | 0.50                          | 8.62                     |
| Clubhouse               | I                        | 2.40                  |                         | 2.40              |                                     |                     |                               | 0.00                     |
| 10                      | E                        | 0.60                  | 0.21                    | 0.39              |                                     |                     | 0.53                          | 0.74                     |
| 12                      | H                        | 1.60                  | 1.33                    | 0.27              |                                     |                     | 0.30                          | 1.63                     |
| 14                      | G                        | 1.40                  |                         | 0.74              | 0.66                                | 1.38                |                               | 2.04                     |
| 15-16                   | F                        | 4.60                  |                         | 2.50              | 2.10                                | 0.75                | 0.00                          | 2.85                     |
| 18                      | J                        | 0.62                  |                         | 0.62              |                                     |                     |                               | 0.00                     |
| TOTAL GOLF COURSE AREAS |                          | 32.62                 | 6.78                    | 18.89             | 6.95                                | 5.53                | 1.33                          | 20.59                    |

PURPOSE: FILL / GOLF COURSE

DATUM

ADJACENT PROPERTY OWNERS:

1

2

IN WETLANDS

AT SEC 11 & 14, T100N, R 50 W

COUNTY OF LINCOLN STATE SD

APPLICATION BY SIOUX FALLS, CITY OF

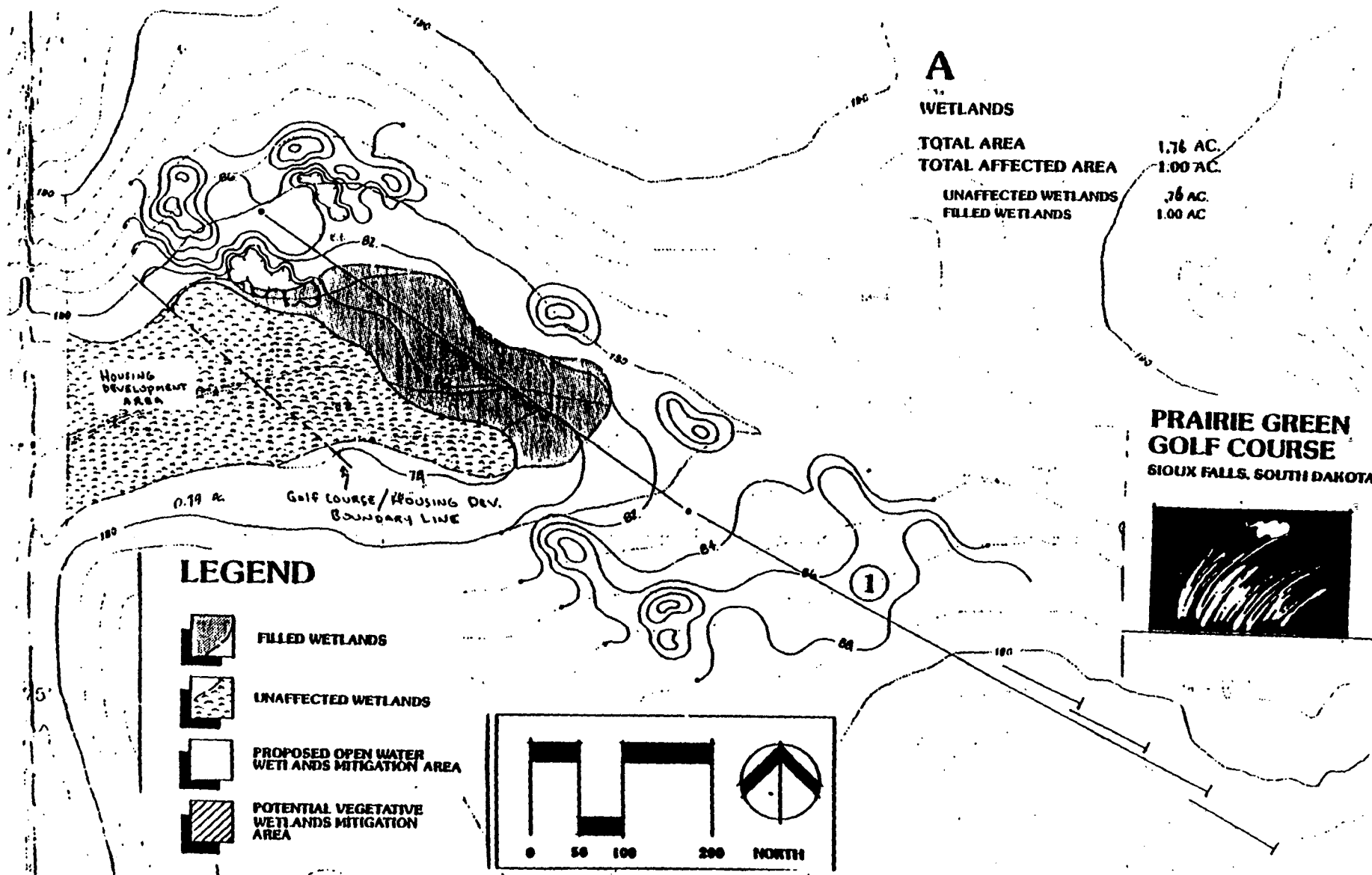
SHEET 1 OF 10 DATE JUNE 1992

199230294



199230294

PURPOSE: FILL / Golf Course  
 DATUM  
 ADJACENT PROPERTY OWNERS:  
 1  
 2



IN WETLANDS  
 AT SEC 11 & 14, T100N, R50W  
 COUNTY OF LINCOLN STATE SD  
 APPLICATION BY SIOUX FALLS, CITY OF  
 SHEET 3 OF 10 DATE June 1992

**PRAIRIE GREEN  
GOLF COURSE**  
SIOUX FALLS, SOUTH DAKOTA

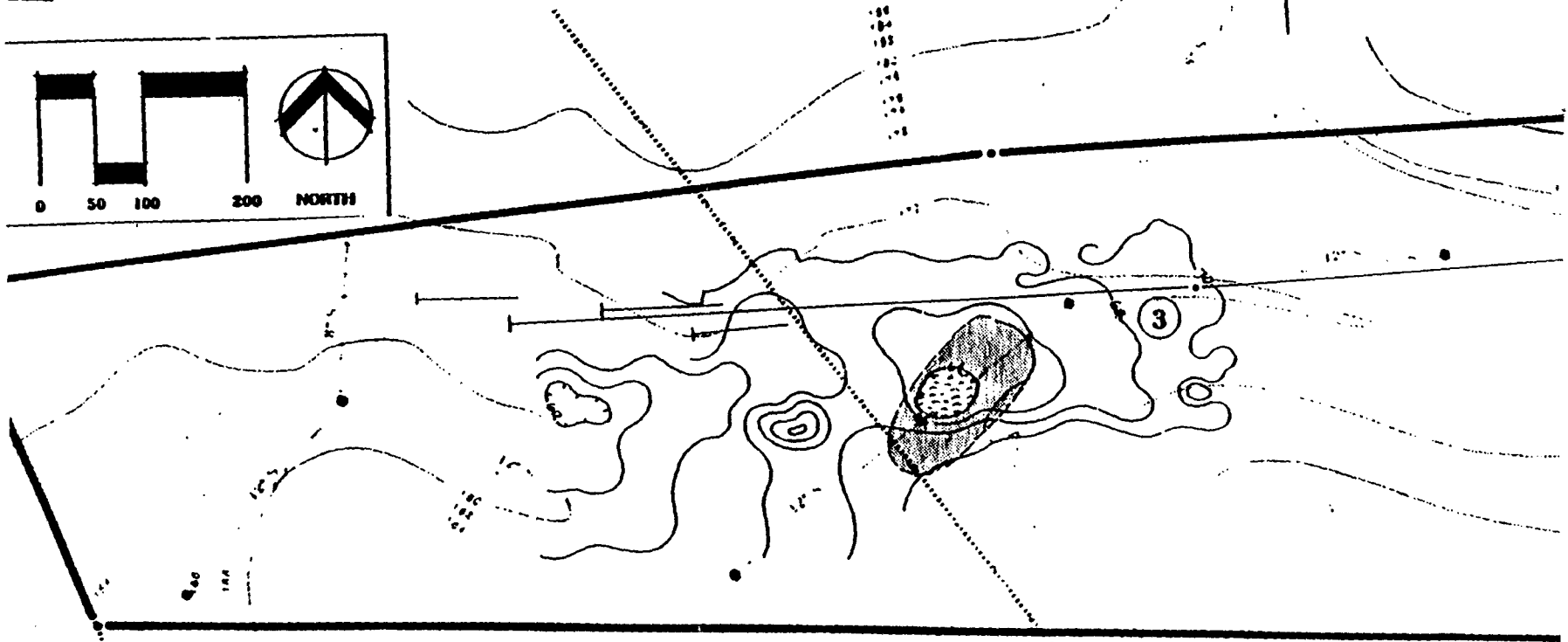
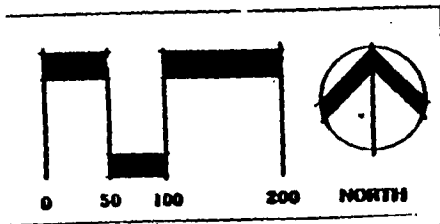
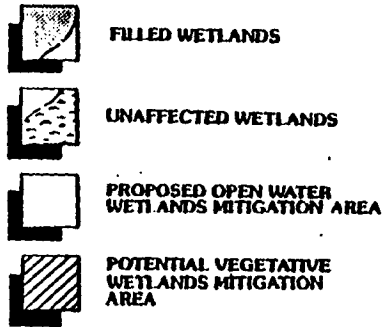


**B**

**WETLANDS**

|                                            |          |
|--------------------------------------------|----------|
| TOTAL AREA                                 | .3 AC.   |
| TOTAL AFFECTED AREA                        | .25 AC.  |
| UNAFECTED WETLANDS                         | .05 AC.  |
| FILLED WETLANDS                            | .25 AC.  |
| PROPOSED OPEN WATER<br>WETLANDS MITIGATION | 0.00 AC. |
| VEGETATIVE WETLANDS<br>MITIGATION          | 0.00 AC. |

**LEGEND**



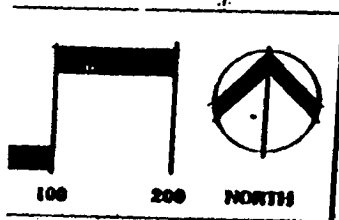
PURPOSE: FILL / GOLF COURSE  
DATION  
ADJACENT PROPERTY OWNERS:  
1  
2

IN WETLANDS  
AT SEC 11 & 14, T100N, R50W  
COUNTY OF LINCOLN, STATE SD  
APPLICATION BY SIOUX FALLS, CITY OF  
SHEET 4 OF 10 DATE JUNE 1992

199230294

199230294

PURPOSE: FILL / GOLF COURSE  
 DATUM  
 ADJACENT PROPERTY OWNERS:  
 1  
 2



## LEGEND

-  FILLED WETLANDS
-  UNAFFECTED WETLANDS
-  PROPOSED OPEN WATER WETLANDS MITIGATION AREA
-  POTENTIAL VEGETATIVE WETLANDS MITIGATION AREA

## PRAIRIE GREEN GOLF COURSE

SIOUX FALLS, SOUTH DAKOTA



## C WETLANDS

|                                         |         |
|-----------------------------------------|---------|
| TOTAL AREA                              | 2.10 AC |
| TOTAL AFFECTED AREA                     | 1.60 AC |
| UNAFFECTED WETLANDS                     | .50 AC  |
| FILLED WETLANDS                         | 1.60 AC |
| PROPOSED OPEN WATER WETLANDS MITIGATION | 3.40 AC |
| VEGETATIVE WETLANDS MITIGATION          | 0.04 AC |

NWL 64.00'  
HWL 68.00'

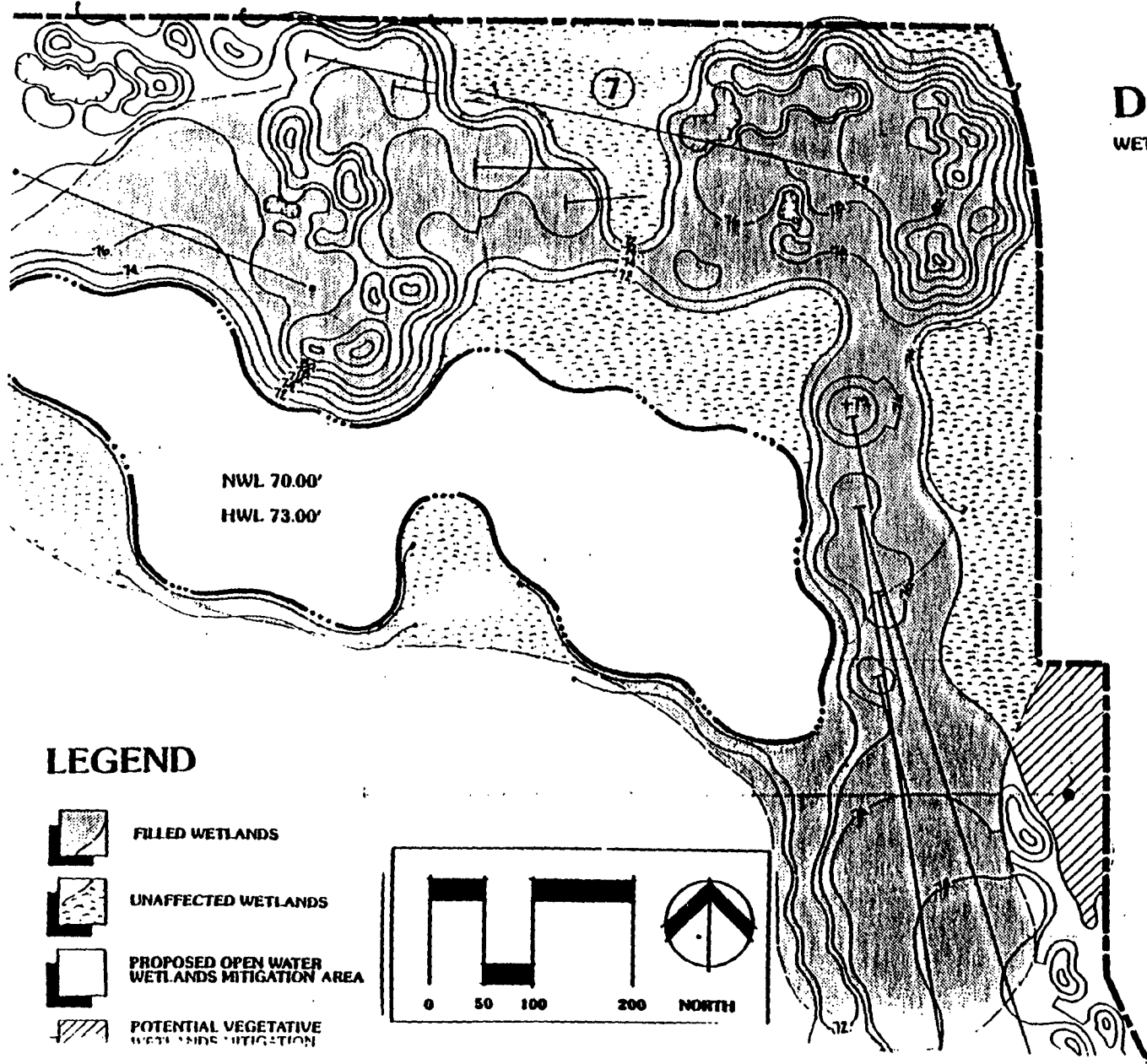
IN WETLANDS  
 AT SEC 11 & 12, T100N, R 50 W  
 COUNTY OF LINCOLN STATE SD  
 APPLICATION BY SIOUX FALLS, CITY OF  
 SHEET 5 OF 10 DATE JUNE 1992

# D

## WETLANDS

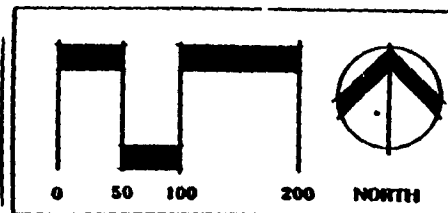
|                                            |           |
|--------------------------------------------|-----------|
| TOTAL AREA                                 | 17.24 AC. |
| TOTAL AFFECTED AREA                        | 13.31 AC. |
| UNAFFECTED WETLANDS                        | 3.93 AC.  |
| FILLED WETLANDS                            | 9.12 AC.  |
| PROPOSED OPEN WATER<br>WETLANDS MITIGATION | 4.19 AC.  |
| VEGETATIVE WETLANDS<br>MITIGATION          | 0.50 AC.  |

**PRAIRIE GREEN  
GOLF COURSE**  
SIOUX FALLS, SOUTH DAKOTA



### LEGEND

-  FILLED WETLANDS
-  UNAFFECTED WETLANDS
-  PROPOSED OPEN WATER  
WETLANDS MITIGATION AREA
-  POTENTIAL VEGETATIVE  
WETLANDS MITIGATION



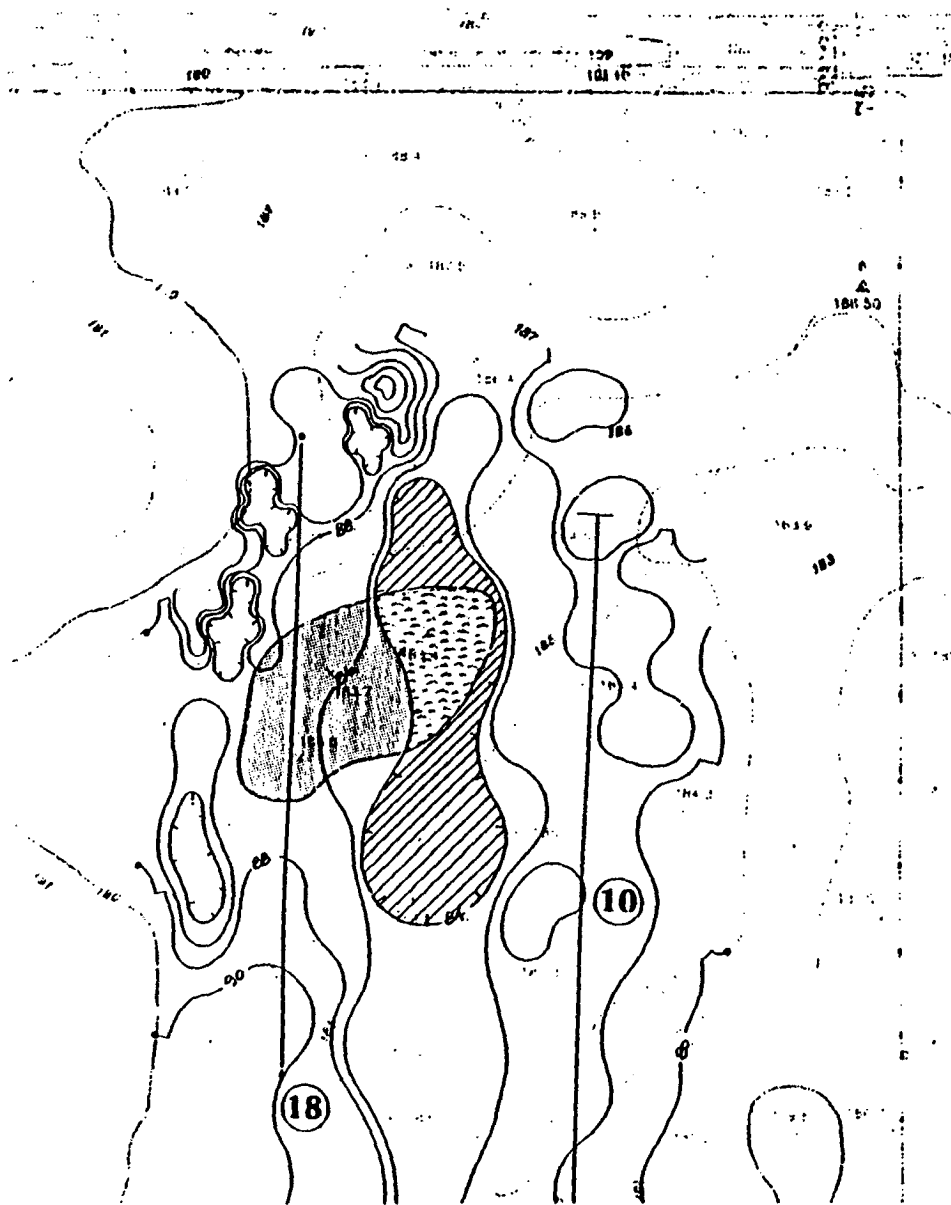
PURPOSE: Fill / Golf Course  
DATUM  
ADJACENT PROPERTY OWNERS:  
1  
2

IN WETLANDS  
AT SEC 11 & 14, T100N, R50W  
COUNTY OF LINCOLN STATE SD  
APPLICATION BY SIOUX FALLS, CITY OF  
SHEET 6 OF 10 DATE JUNE 1992

199230294

199230294

PURPOSE: FILL / GOLF COURSE  
 DATUM  
 ADJACENT PROPERTY OWNERS:  
 1  
 2



## LEGEND

-  FILLED WETLANDS
-  UNAFFECTED WETLANDS
-  PROPOSED OPEN WATER WETLANDS MITIGATION AREA
-  POTENTIAL VEGETATIVE WETLANDS MITIGATION AREA



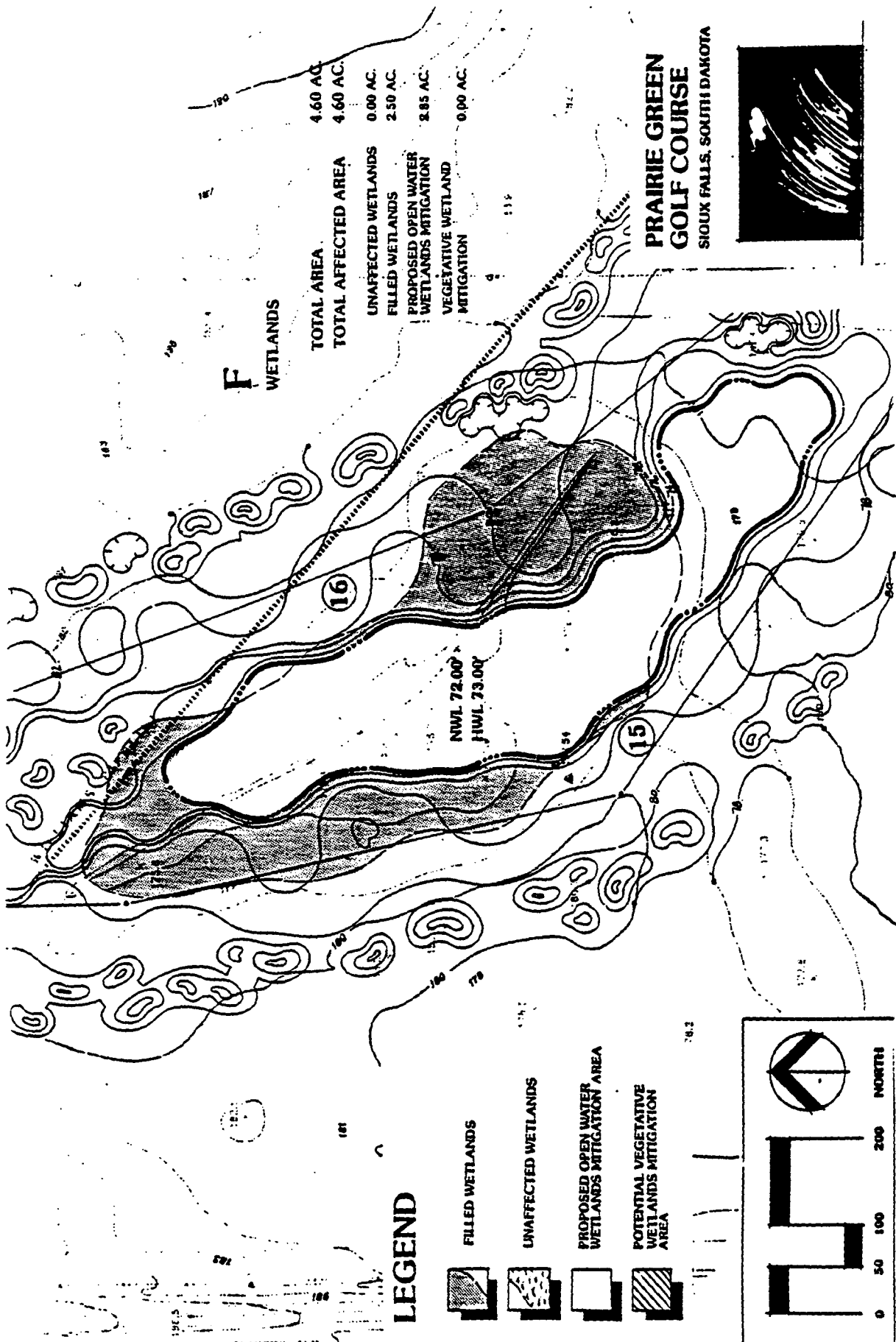
## E WETLANDS

|                                         |          |
|-----------------------------------------|----------|
| TOTAL AREA                              | 0.60 AC. |
| TOTAL AFFECTED AREA                     | 0.39 AC. |
| UNAFFECTED WETLANDS                     | 0.21 AC. |
| FILLED WETLANDS                         | 0.39 AC. |
| PROPOSED OPEN WATER WETLANDS MITIGATION | 0.00 AC. |
| VEGETATIVE WETLANDS MITIGATION          | 0.53 AC. |

**PRAIRIE GREEN  
 GOLF COURSE**  
 SIOUX FALLS, SOUTH DAKOTA



IN WETLANDS  
 AT SEC 11 & 14, T100N, R50W  
 COUNTY OF LINCOLN STATE SD  
 APPLICATION BY SIOUX FALLS, CITY OF  
 SHEET 7 OF 10 DATE JUNE 1992



PURPOSE: FILL / GOLF COURSE

DATUM

ADJACENT PROPERTY OWNERS:

1  
2

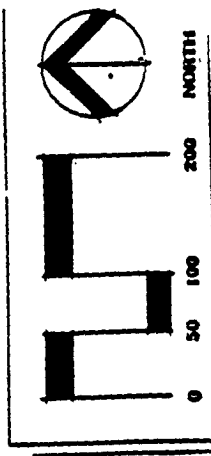
IN WETLANDS

AT SEC 11 + 12, T100N, R 50 W  
COUNTY OF LINCOLN STATE SD

APPLICATION BY SIOUX FALLS, CITY OF  
SHEET 8 OF 10 DATE JUNE 1992

199230294

# **PRAIRIE GREEN GOLF COURSE** SIOUX FALLS, SOUTH DAKOTA



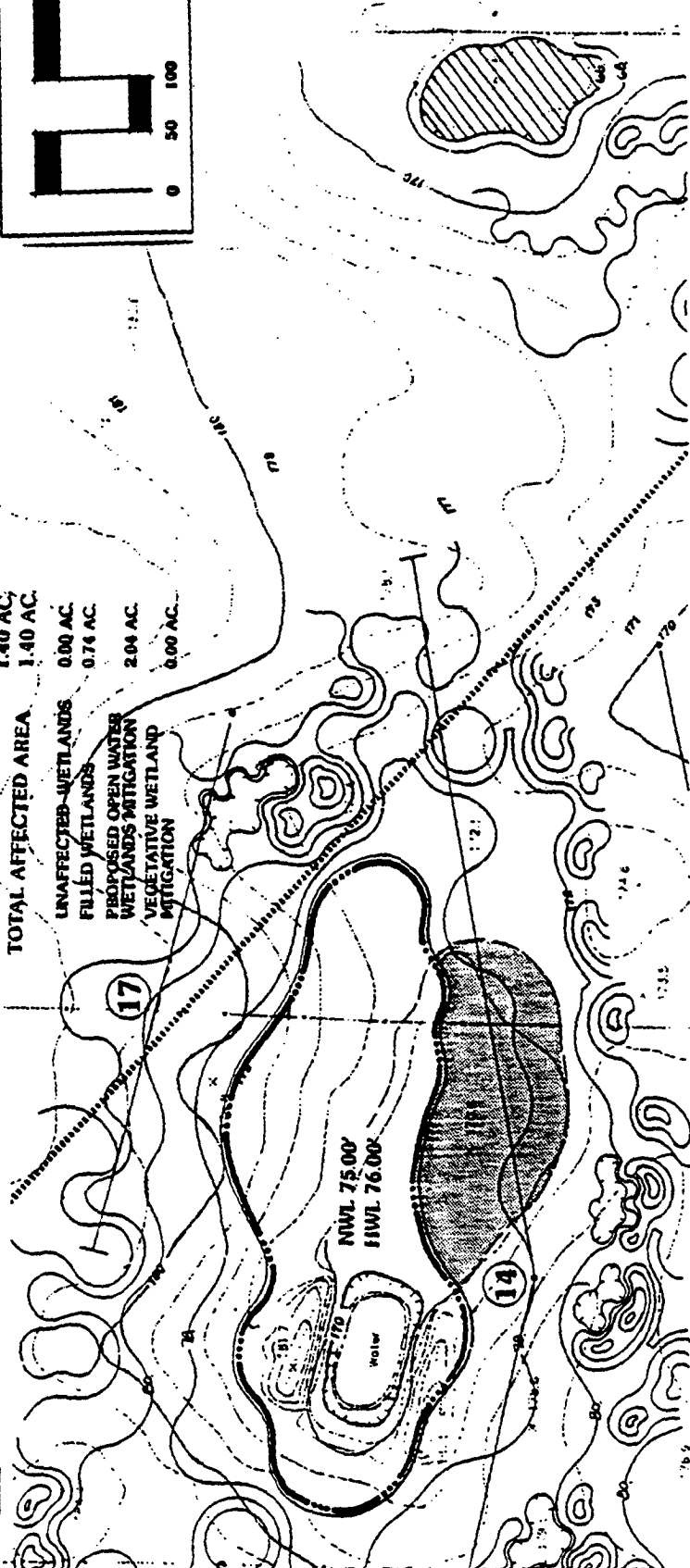
## **LEGEND**

-  FILLED WETLANDS
-  UNAFFECTED WETLANDS
-  PROPOSED OPEN WATER  
WETLANDS MITIGATION AREA
-  POTENTIAL VEGETATIVE  
WETLANDS MITIGATION  
AREA

**G**

WETLANDS

|                                            |          |
|--------------------------------------------|----------|
| TOTAL AREA                                 | 1.40 AC. |
| TOTAL AFFECTED AREA                        | 1.40 AC. |
| UNAFFECTED WETLANDS                        | 0.00 AC. |
| FILLED WETLANDS                            | 0.74 AC. |
| PROPOSED OPEN WATER<br>WETLANDS MITIGATION | 2.04 AC. |
| VEGETATIVE WETLAND<br>MITIGATION           | 0.00 AC. |



PURPOSE: FILL / GOLF COURSE

DATUM

ADJACENT PROPERTY OWNERS:

1

2

IN WETLANDS

AT SEC 11 + 12, T100N, R 50 W

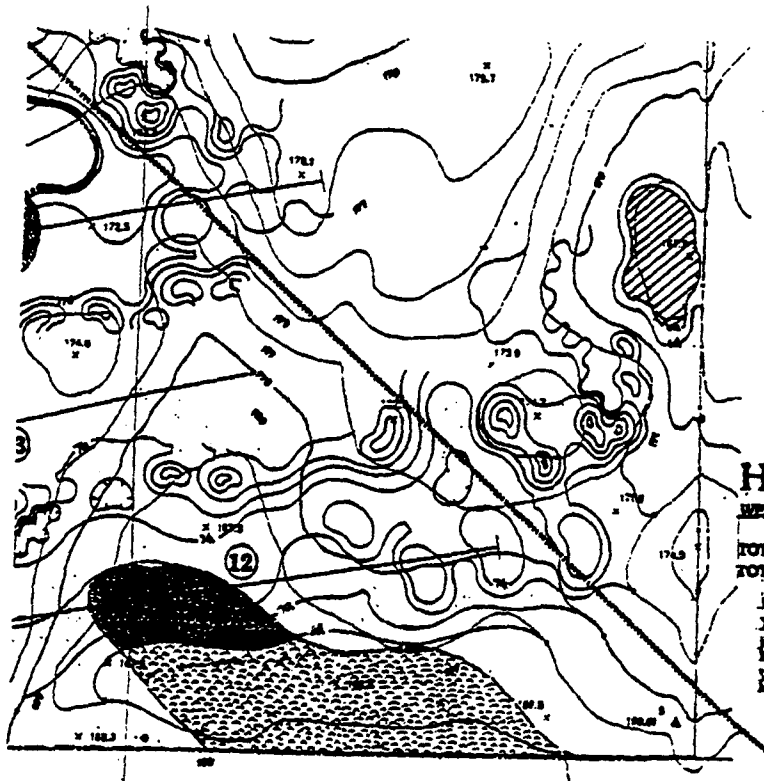
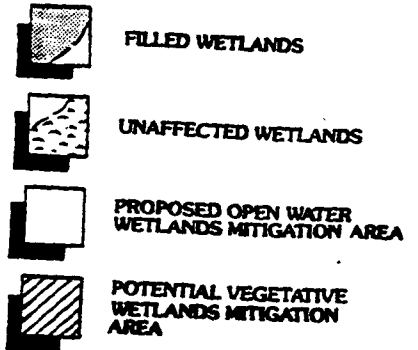
COUNTY OF LINCOLN STATE SD

APPLICATION BY SIOUX FALLS, CITY OF

SHEET 9 OF 10 DATE JUNE 1992

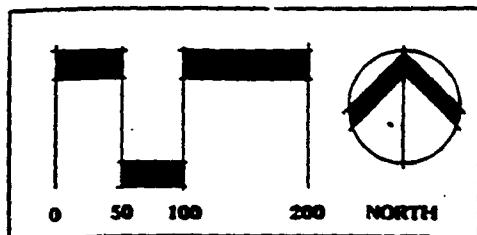
199230294

# LEGEND



|                                          |          |
|------------------------------------------|----------|
| <b>H</b>                                 |          |
| <b>WETLANDS</b>                          |          |
| TOTAL AREA                               | 1.50 AC. |
| TOTAL AFFECTED AREA                      | 0.57 AC. |
| UNAFECTED WETLANDS                       | 1.50 AC. |
| FILLED WETLANDS                          | 0.57 AC. |
| PROPOSED OPEN WATER WETLANDS MITIGATION  | 0.57 AC. |
| POTENTIAL VEGETATIVE WETLANDS MITIGATION | 0.50 AC. |

## PRAIRIE GREEN GOLF COURSE SIOUX FALLS, SOUTH DAKOTA



PURPOSE: FILL / GOLF COURSE  
 DATUM  
 ADJACENT PROPERTY OWNERS:  
 1  
 2

IN WETLANDS  
 AT SEC 11 + 14, T100N, R 50 W  
 COUNTY OF LINCOLN STATE SD  
 APPLICATION BY SIOUX FALLS, CITY OF  
 SHEET 10 OF 10 DATE JUNE 1992

199230294



**DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES**

JOE FOSS BUILDING  
523 EAST CAPITOL  
PIERRE SOUTH DAKOTA 57501-3181

July 21, 1992

RE: 404 Notice of Permit Pending  
199230294  
Sioux Falls Parks and Recreation Department  
Prairie Green Golf Course  
Fill/Wetlands

STEVE NAYLOR  
U S CORPS OF ENGINEERS  
REGULATORY BRANCH  
FEDERAL BUILDING ROOM 317  
PIERRE SD 57501

Dear Mr. Naylor:

The South Dakota Department of Environment and Natural Resources (DENR), Division of Environmental Regulation, has reviewed the request for authorization to place fill material in wetlands in conjunction with the construction of a public golf course. This project is located in Sections 11 and 14, T100N, R50W, Lincoln County, South Dakota. This project is closely associated with a private residential/commercial development to be considered for separate Department of the Army authorization under Nationwide Permit 26 (1.5 to 3 acres). This comment letter will address the cumulative impacts to wetlands of both projects.

While this department appreciates the efforts employed by the applicant to develop appropriate mitigative measures, there is some concern over the adequacy of the proposal. The applicant has acknowledged direct wetland impacts to 25.84 acres. Wetland impacts are evaluated by loss in acres and change in type and function. Compensation for the loss of 18.89 acres to filling activities is proposed through a prioritized off-site mitigation plan. This proposal is acceptable as long as the mitigated areas are functionally maintained for the same duration as there are project impacts to the original wetlands.

The remaining 6.95 wetland acres impacted will result in the alteration of wetland function as existing wetlands will be excavated to create open water basins. There has been much discussion whether the change in water regime from palustrine emergent wetlands to open water can really be considered an

"upgrade" in wetland value. The original wetlands provide important values that cannot be maintained with an open water scenario. This may be especially true if the mitigated wetlands are not set strictly aside to exist as natural wetlands. Anthropogenic influences will be fairly constant as the mitigative acres are intended to provide storage for stormwater runoff and a water supply for the golf course irrigation system.

Potentially, the mitigated wetlands may be looked upon as nuisances that do not coincide with the aesthetic management goals of the golf course. This office frequently receives calls from golf course managers requesting approval to apply chemicals to ponds in an effort to control aquatic plants, mosquitos, etc. Most open water areas on golf courses are managed with chemicals, grooming and riprap to provide a more pleasing atmosphere for the clients. The potential is great that these mitigated wetlands will not fulfill the functions they were intended to meet. Mitigation for the original wetland values cannot be assured.

It is the recommendation of this department that the applicant mitigate the remaining 6.95 acres off-site as on-site compensation is not seen as a benefit. It is also being assumed that the wetlands impacted from the private residential/commercial development will be included with the mitigation activities for the golf course development as they are interdependent impacts.

In an effort to protect water quality all fill material shall be free of substances in quantities, concentrations, or combinations which are toxic to aquatic life. Removal of vegetation shall be confined to those areas absolutely necessary to construction. At a minimum, construction techniques for sediment and erosion control must be utilized, such as those presented in either "Best Management Practices" by DWR (1981), "Best Management Practices" by the Federal Department of Transportation, or the "Erosion Control Manual" by the Colorado Department of Transportation. All material removed as waste material, material stockpiles, dredged or excavated material shall be placed for either temporary or permanent disposal in an upland site that is not a wetland (unless approved by permit), and measures taken to insure that the material cannot enter the watercourse through erosion or any other means.

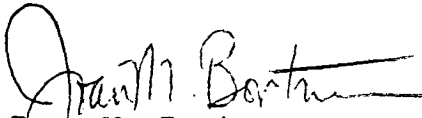
The Division of Water Rights has also reviewed this application. On April 24, 1992, the Sioux Falls Parks and Recreation Department was issued Water Permit No. 5605-3 to appropriate 1.5 cubic feet of water per second from up to 5 wells to irrigate 170 acres of golf course. However, another water permit is needed to allow diversion of water from the Big Sioux River to the ponds. This application will also need to include the location and size of any ponds that 1) water is diverted into from the Big Sioux River, 2) water is diverted from for irrigation, or 3) exceed a storage capacity of 25 acre-feet of water.

A location notice may be filed for any ponds storing less than 25 acre-feet of water and storing runoff in place (no diversions to or

from the ponds.) No water permit is needed for any structures that qualify for a location notice filing.

Thank you for the opportunity to provide comments on the proposed permit. A copy of the permit with any special conditions would be appreciated. If you have any questions, please contact this Office.

Sincerely,



Joan M. Bortnem  
Natural Resources Senior Scientist  
Point Source Control Program  
Phone: (605) 773-3351

cc: S.D. Department of Agriculture, Clark Johnson  
S.D. Department of Game, Fish and Parks, Tim Olson  
U.S. Fish and Wildlife Service, Pierre, Scott Larson  
U.S. Environmental Protection Agency, Denver, Robert Mairley  
✓ S.D. Department of Environment & Natural Resources, Ron Duvall

WATER PERMIT APPLICATION NO. 5605-3  
SIOUX FALLS PARK & REC. DEPARTMENT  
MARCH 4, 1992

Application No. 5605-3 proposes to appropriate 1.5 cubic feet of water per second from five wells approximately 25 feet deep, located in the S 1/2 NW 1/4 Sec. 33, T101N-R49W. The water will be used to irrigate an eighteen hole golf course and 10 soccer fields. The 170 acres to be irrigated is located in the SW 1/4, W 1/2 SE 1/4 Sec. 11; NW 1/4 Sec. 14; N 1/2 SE 1/4 Sec.10; all in T100N-R50W and the S 1/2 NW 1/4 Sec. 33, T101N-R49W.

**AQUIFER:** Big Sioux: South

**AQUIFER CHARACTERISTICS:**

The Big Sioux Aquifer is an alluvium mantled, glacial outwash deposit consisting of sand and gravel which underlies the Big Sioux River flood plain. The South Management Unit of the aquifer extends from near the confluence of Skunk Creek and the Big Sioux River to the confluence of the Big Sioux River and the Missouri River. The management unit is hydrologically connected to the Southern Skunk Creek Management Unit to the north. The total areal extent of the South Management Unit has been estimated to be 49,000 acres, of which approximately 17,200 acres is located in Minnehaha County, (Hedges, 1982). The recoverable water in storage in Minnehaha County has been conservatively estimated, (based on average saturated thickness of only 8 feet), to be approximately 20,640 acre-feet (Hedges, 1982).

The Big Sioux Aquifer is predominately under unconfined conditions in this area. The South Management Unit is hydraulically connected to the Big Sioux River. The river acts as both a gaining stream and a losing stream depending on the hydraulic gradient between the aquifer and the river. When the water levels of the aquifer are higher than the stage of the river, groundwater is released from storage from the aquifer to the river, the river recharges the aquifer when water levels in the aquifer are below the river stage. An annual balance of river gains and losses would show the Big Sioux River has historically been a gaining stream.

The Division of Water Rights monitors 9 observation wells completed into the South Management Unit (hydrographs included). The hydrograph of an observation well completed into the Southern Skunk Creek Management Unit, (MA-57I) is also included with this report. This well may be more representative of the Big Sioux Aquifer for this area, however, it is more influenced by Skunk Creek than the Big Sioux River. The hydrographs show that the highest annual water level in the aquifer generally occurs around April-June, and the lowest annual water level generally occurs around August-October. The decline of water levels during the summer months is due to increased evapotranspiration, reduced recharge, and pumpage. Water levels rise during the late winter and spring due to recharge, if available. The observation well hydrographs show the water level of the aquifer fluctuates rapidly in response to recharge. The response to

withdrawals is less obvious and tends to be represented by a slow gradual decline. Hydrographs also show the unusually high annual precipitation (recharge) in 1985-1987 where groundwater levels were above the norm. Water levels measured in these wells respond seasonally to climatic changes, that is, rising during wet years (recharge) and gradually declining during dry years. Measurements taken from Division of Water Rights' Observation wells indicate that long-term water level declines have not occurred in the South Management Unit.

#### **DISCUSSION:**

SDCL 46-2A-9 requires that a permit to appropriate water may only be issued if there is reasonable probability that there is unappropriated water available for the applicant's proposed use, that the proposed diversion can be developed without unlawful impairment of existing rights, and that the proposed use is a beneficial use and in the public interest. It is beyond the scope of this report to discuss the beneficial use and public interest of the development proposed by this application.

#### **Water Availability:**

The availability of unappropriated water can be evaluated in part by considering SDCL 46-6-3.1, which requires that an application to appropriate groundwater can not be approved if, according to the best information reasonably available, it is probable that the quantity of water withdrawn annually from a groundwater source will exceed the quantity of average estimated annual recharge.

#### **Recharge:**

Recharge to the South Management Unit of the Big Sioux Aquifer occurs primarily through infiltration of precipitation, and streamflow losses.

#### **Withdrawal:**

Withdrawals from the aquifer occur through evapotranspiration, discharge to the Big Sioux River, possible through leakage to underlying aquifers, and pumpage. Pumpage occurs through domestic wells and by appropriative users.

#### **Hydrologic Budget:**

A general equation of the hydrologic budget for an aquifer can be written:

$$\text{Recharge} - \text{Withdrawal} = \text{Change in Storage}$$

Although recharge and withdrawals of the aquifer have not been quantified, a sustained downward trend of the water level has not been observed in Division of Water Rights Observation Wells. The water

level record indicates the aquifer should be capable of sustaining additional withdrawals (Water Rights, 1992).

**Effects on Existing Rights:**

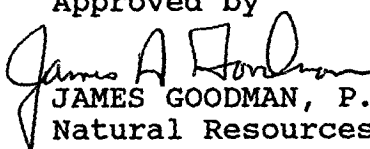
Although lands irrigated are to be located in Lincoln County, diversions are not expected to affect appropriations in the county due to the configuration of the aquifer.

The only existing groundwater permit/rights in the immediate vicinity of this proposed diversion point are Permit Nos. 5281-3 and 5591-3. The permits appropriate ground water remediation of hydrocarbons. Interference is not expected to be a problem as the Big Sioux South is a very prolific aquifer and significant drawdown does not extend very far from an individual production well.

**CONCLUSIONS:**

1. There is a reasonable probability that unappropriated groundwater is available from the South Management Unit of the Big Sioux Aquifer to supply this application.
2. There is a reasonable probability that the diversion proposed by this application can be developed without unlawful impairment of existing rights.

  
KEN BUHLER  
Natural Resources Engineer

Approved by  
  
JAMES GOODMAN, P.E.  
Natural Resources Engineer

**REFERENCES:**

Hedges, L.S., S.Burch, D.Iles, R.Barari, R.Schoon, 1982, Evaluation of Ground-Water Resources Eastern SD and Upper Big Sioux River, SD and Iowa, U.S. Army Corps of Engineers Contract DACW 45-80-C-0185, SD DENR, Division of Geological Survey, Vermillion, SD, 57069

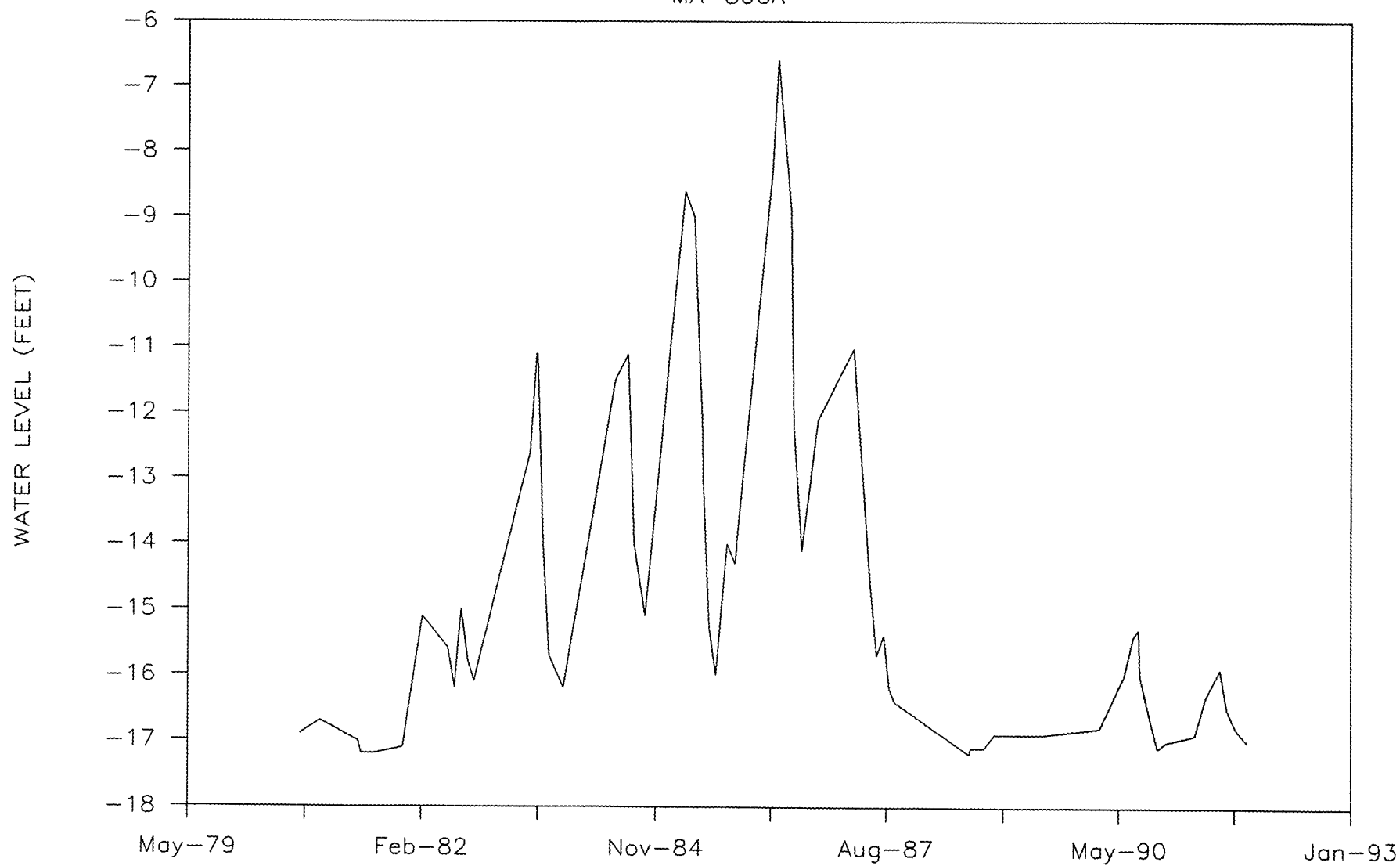
Division of Water Rights, 1992, "Observation Well Files", SD DENR-Division of Water Rights, Joe Foss Building, Pierre, SD, 57501

Division of Water Rights, 1992, "Water Permit Files", SD DENR-Division of Water Rights, Joe Foss Building, Pierre, SD, 57501

Division of Water Rights, 1992, "Irrigation Summary by Aquifer", DENR-Division of Water Rights, Joe Foss Building, Pierre, SD, 57501

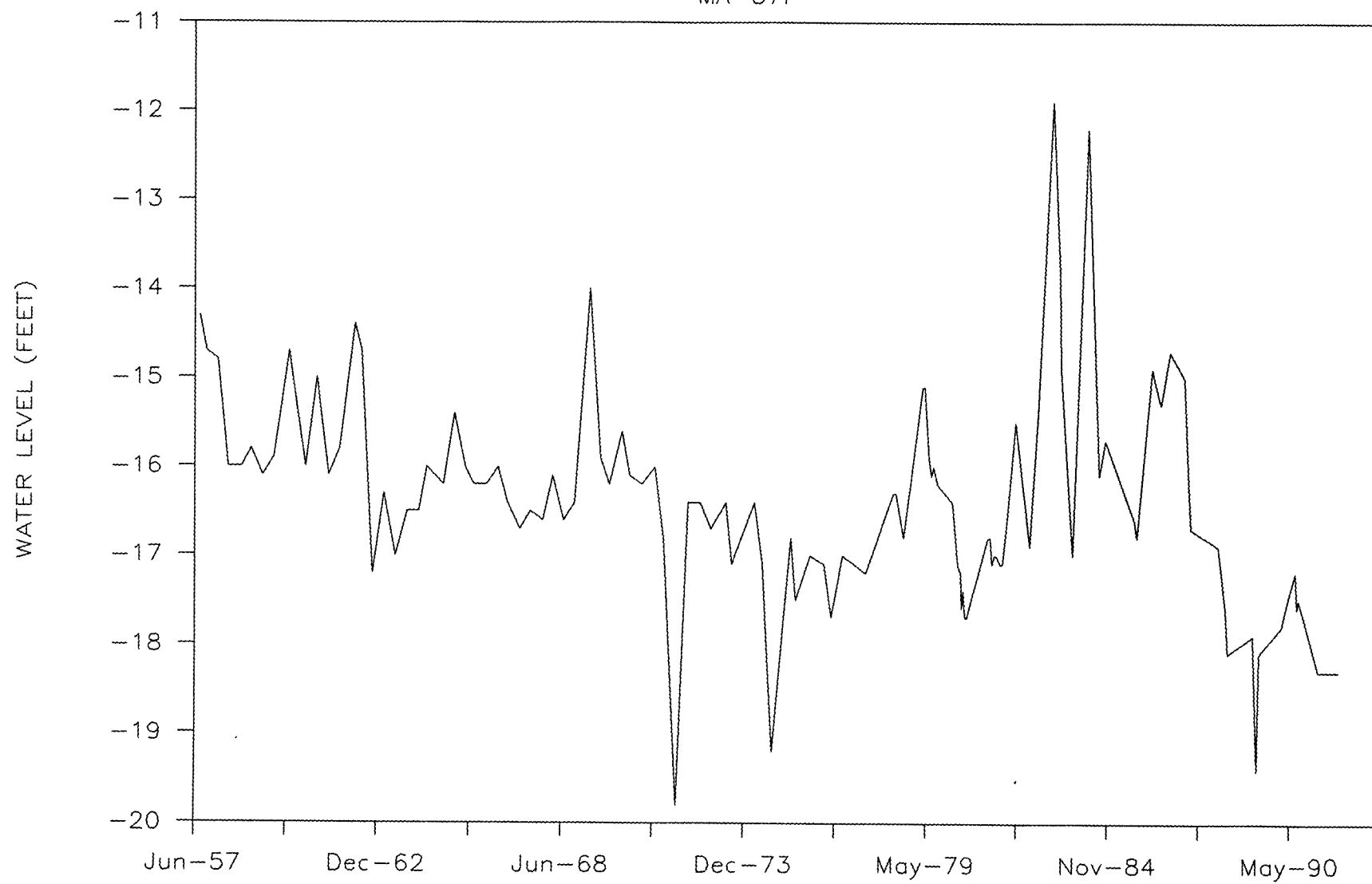
# WATER RIGHTS OBSERVATION WELL

MA-80CA



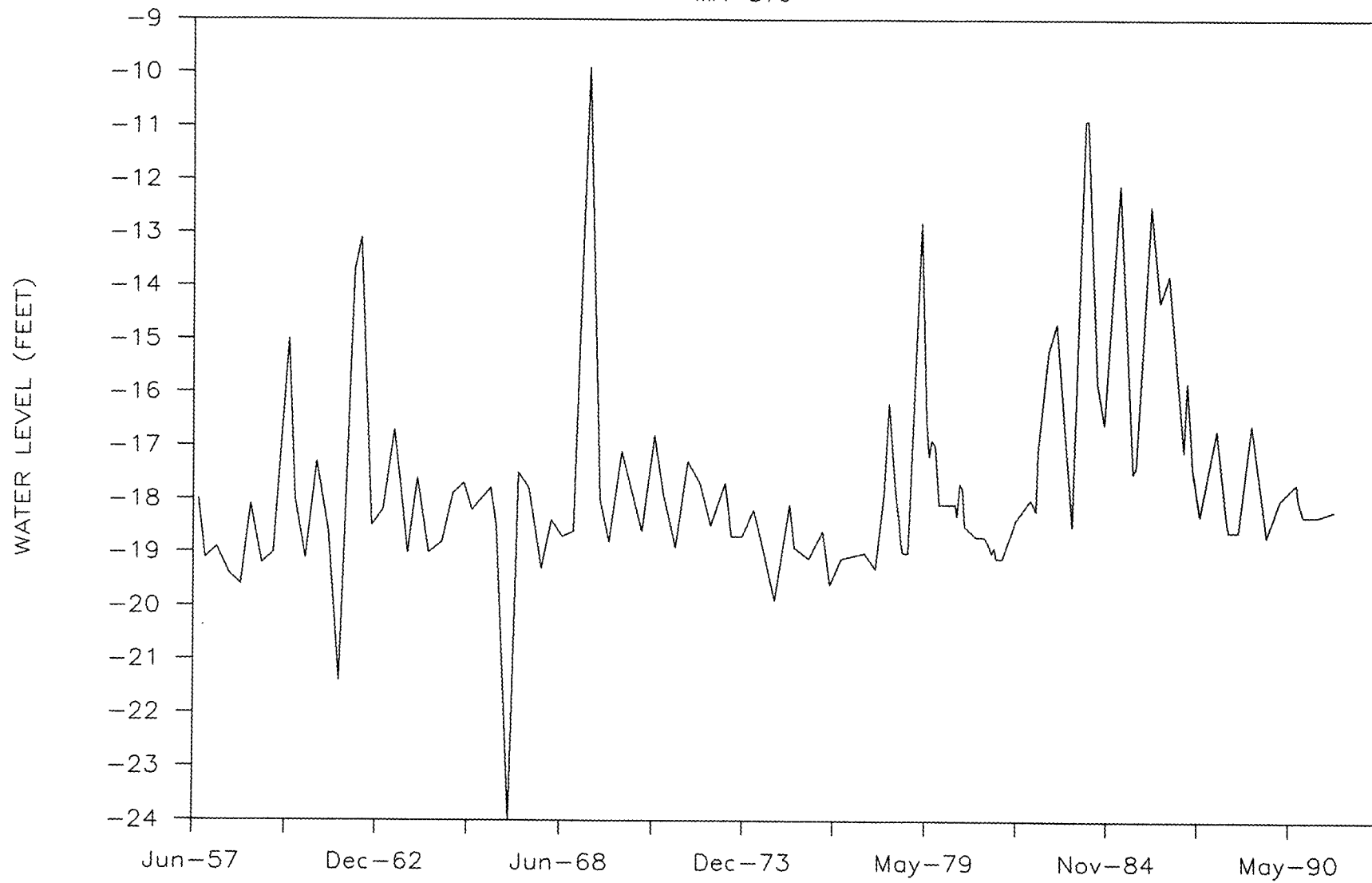
# WATER RIGHTS OBSERVATION WELL

MA-571



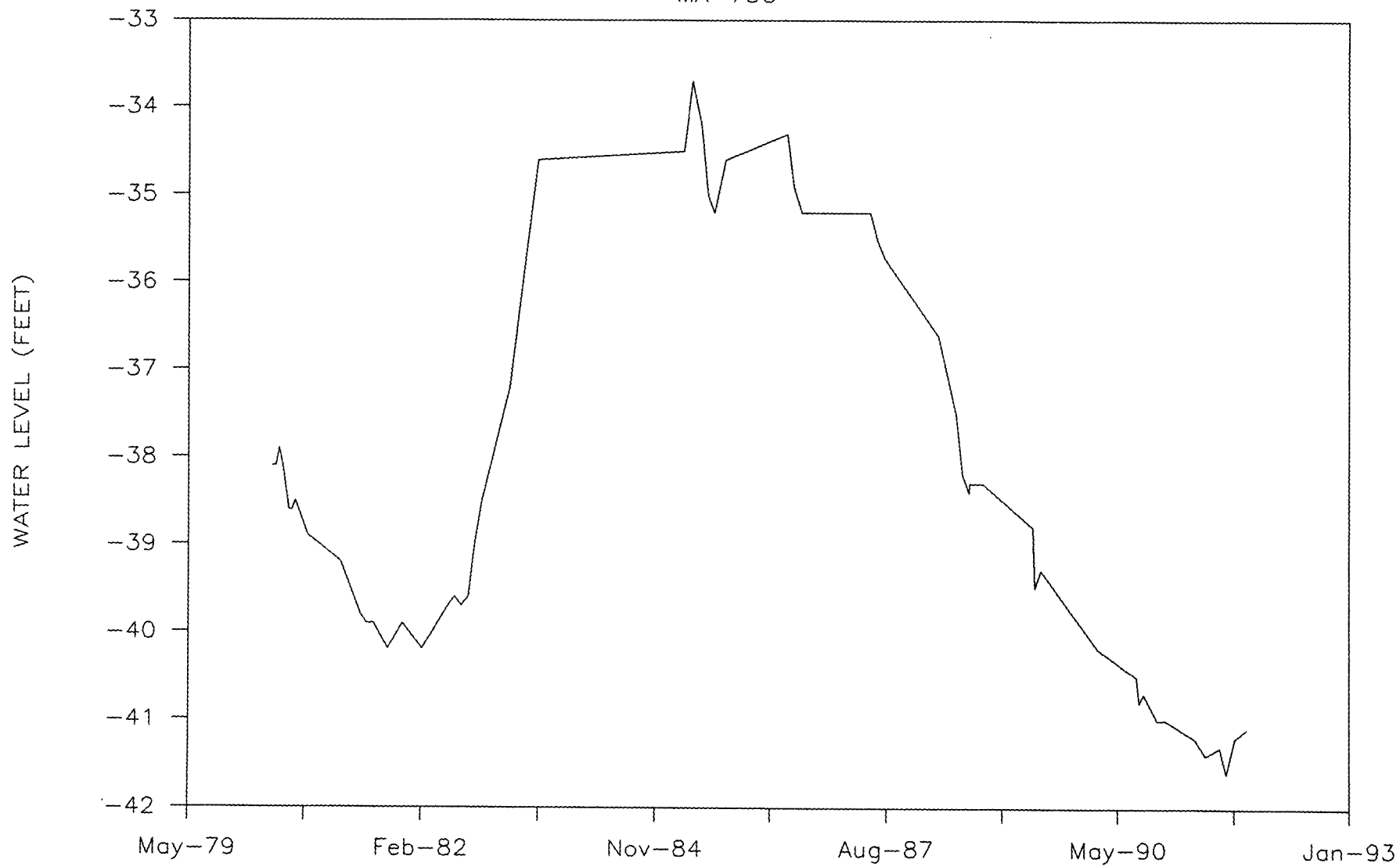
# WATER RIGHTS OBSERVATION WELL

MA-57J



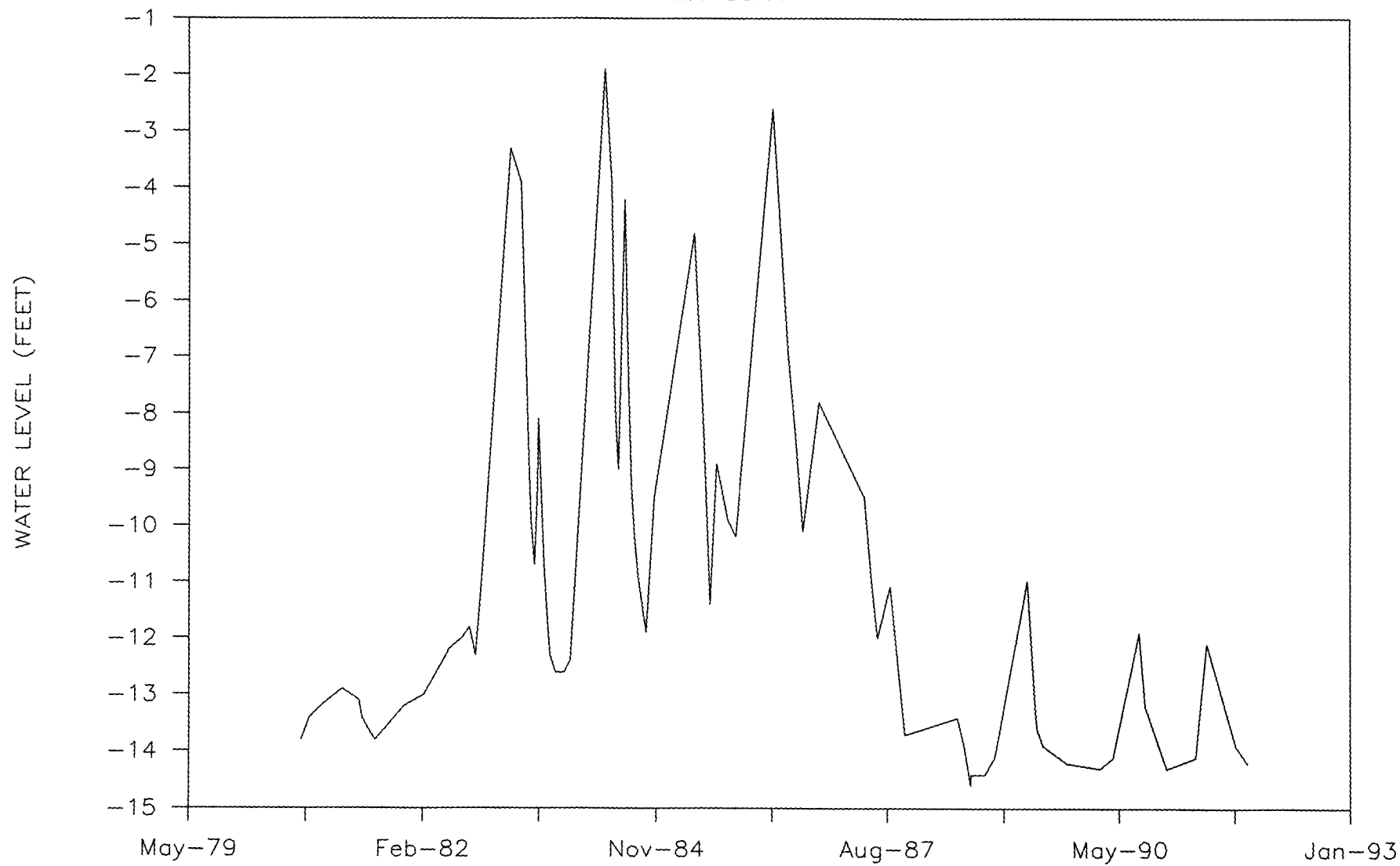
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MA-75C



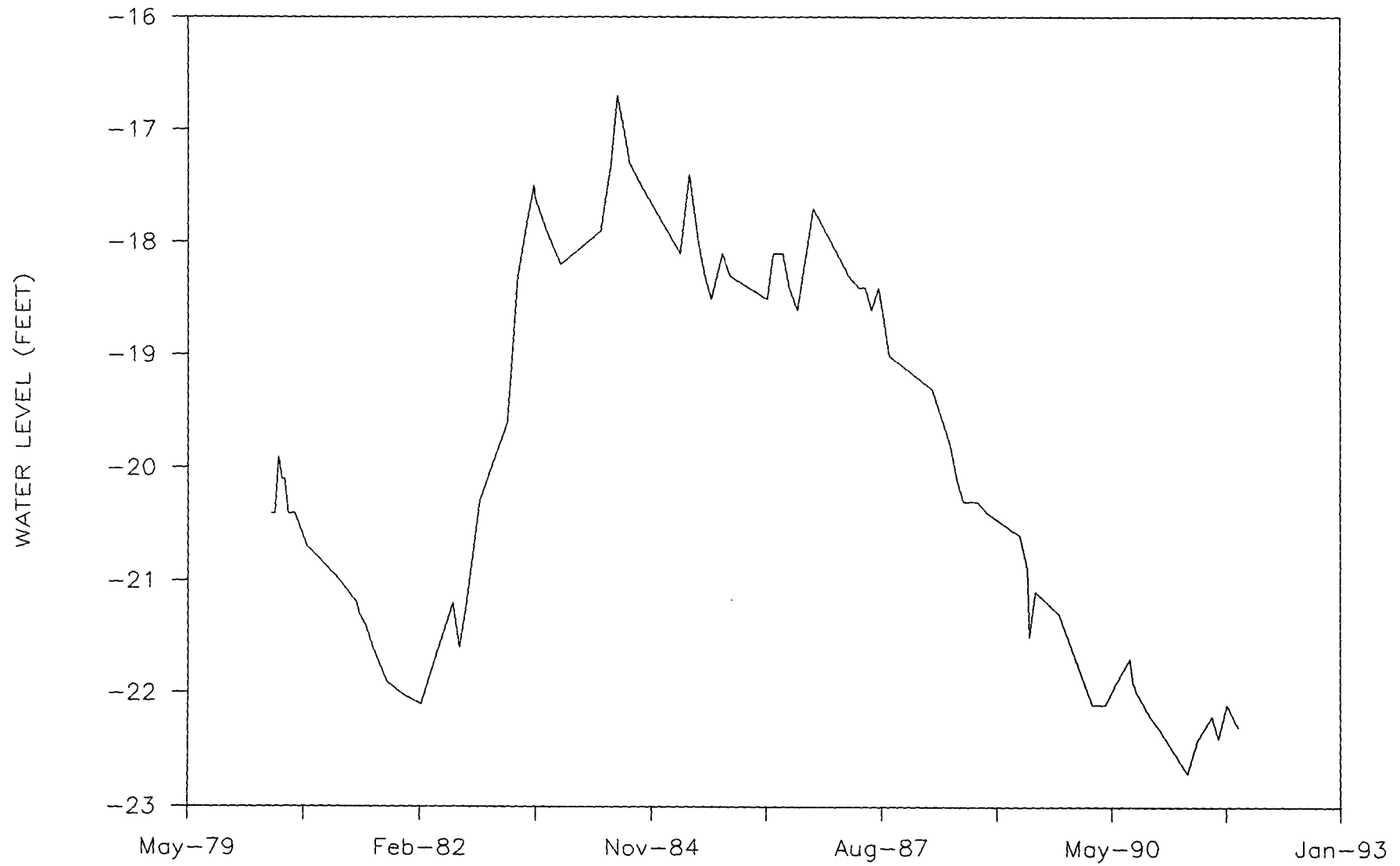
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MA-80AA



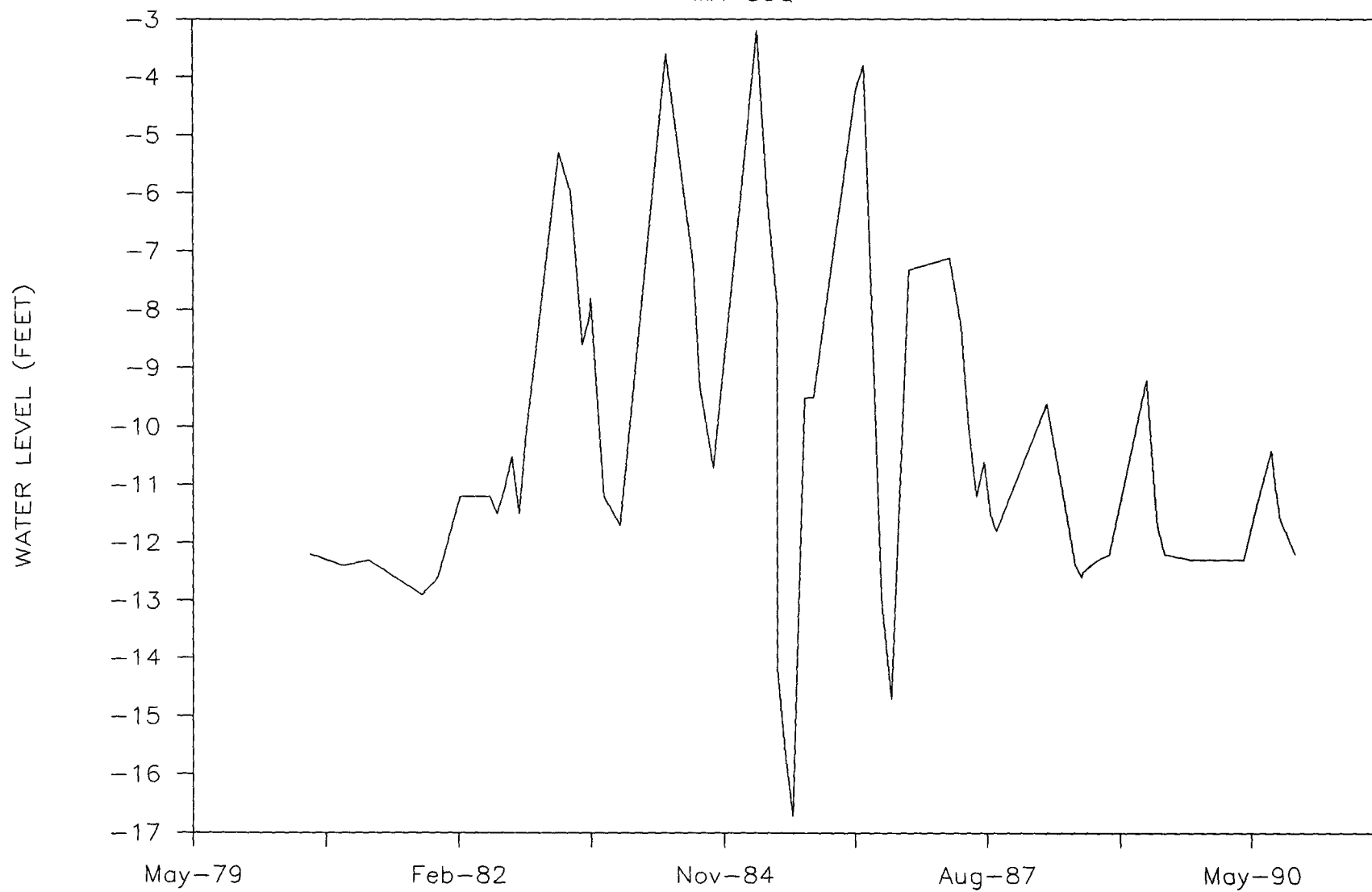
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MA-75A



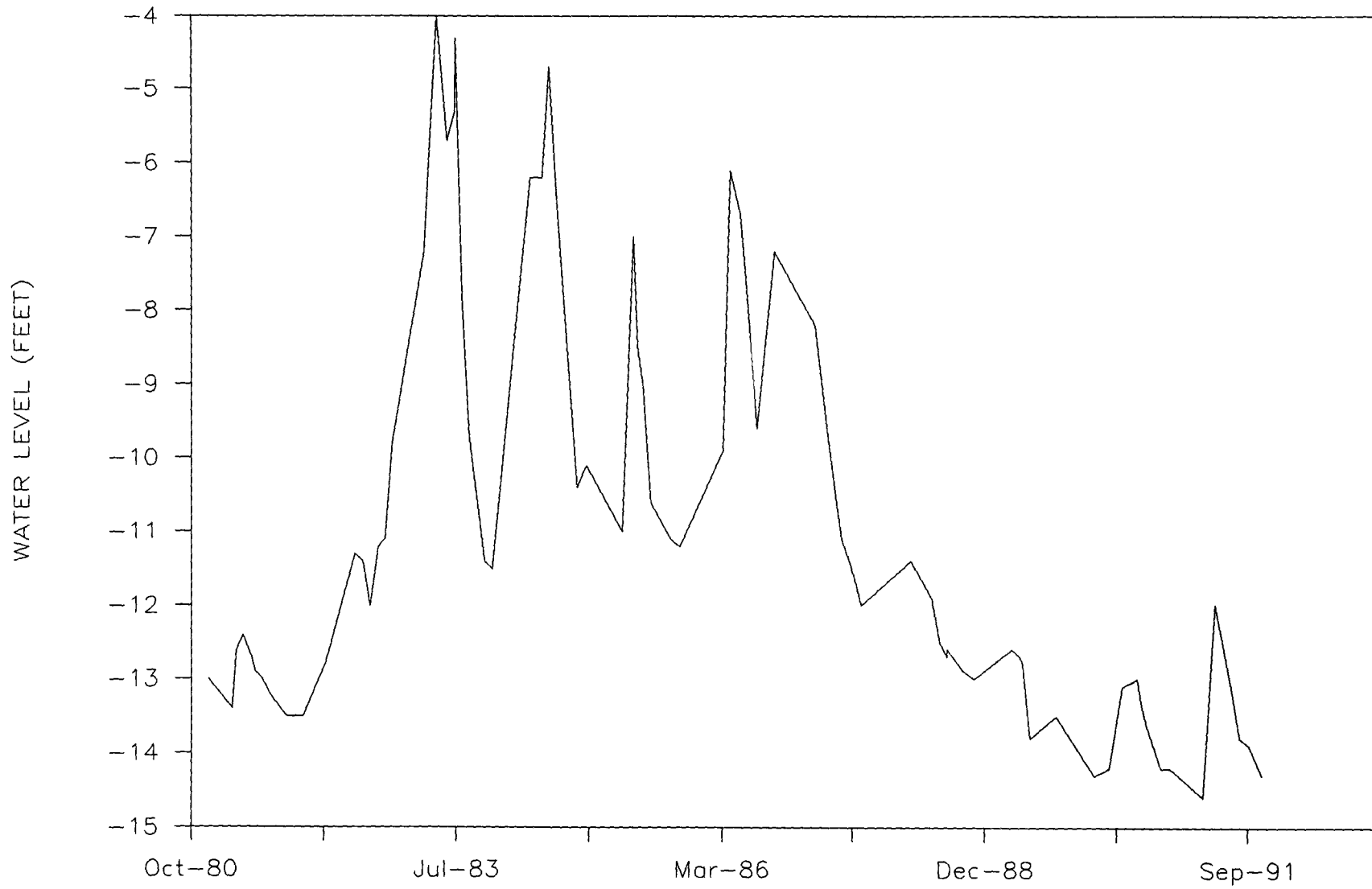
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MA-80Q



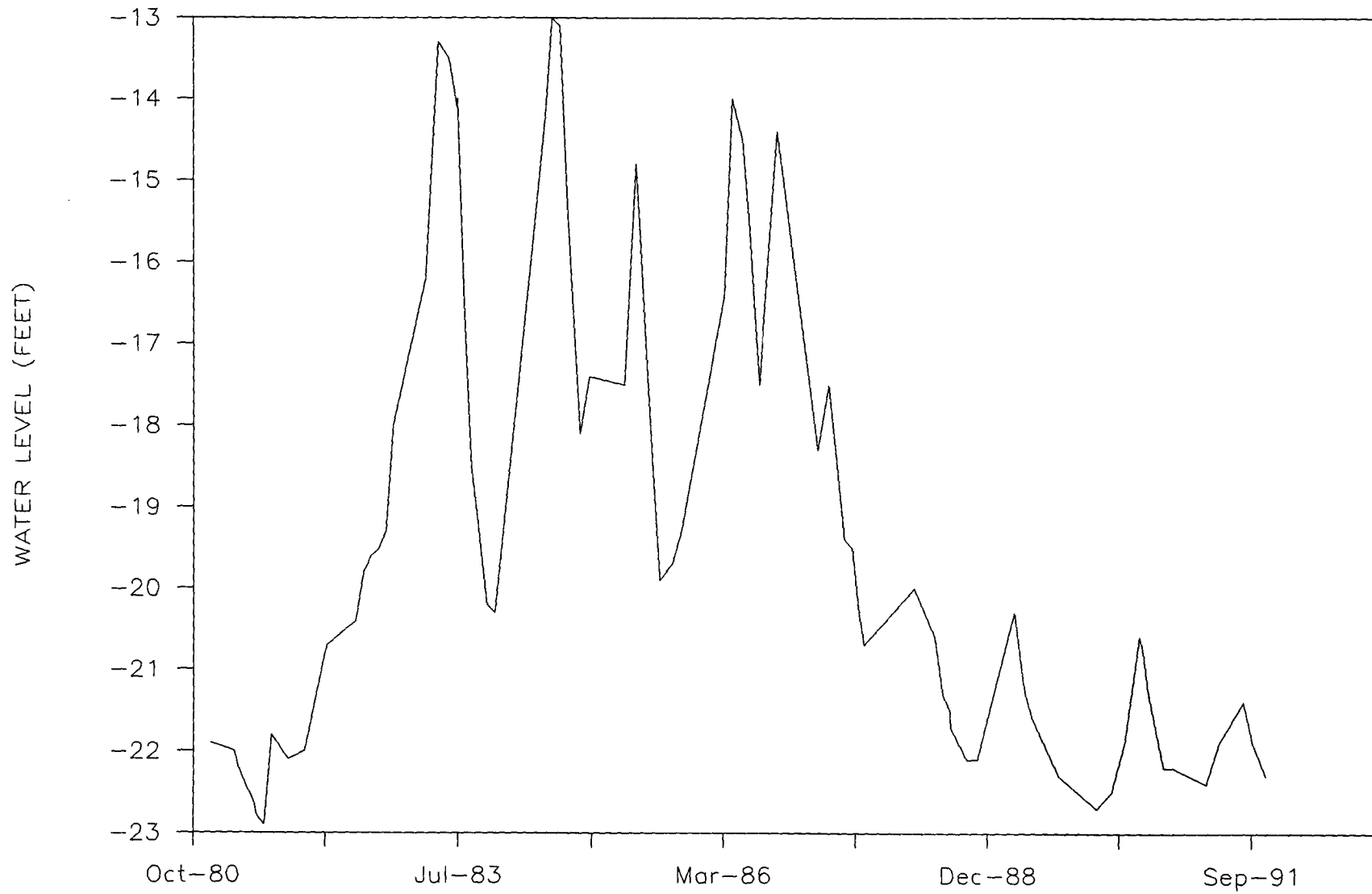
# WATER RIGHTS OBSERVATION WELL

MA-80EA



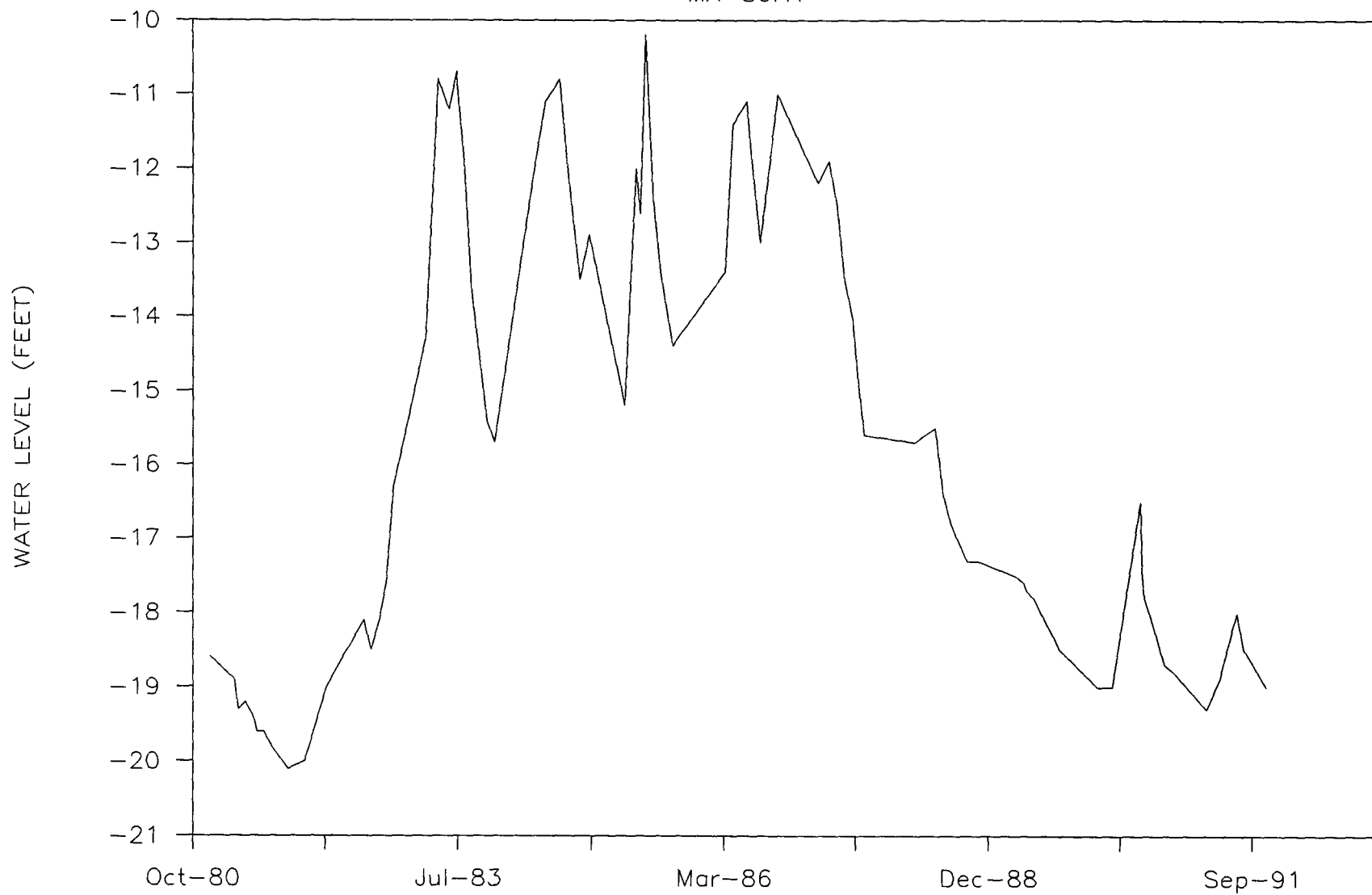
# WATER RIGHTS OBSERVATION WELL

MA-80GA



# WATER RIGHTS OBSERVATION WELL

MA-80FA



RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT  
APPLICATION NO. 5605-3, Sioux Falls Parks & Recreation Department

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Division, Department of Environment and Natural Resources concerning Water Permit Application No. 5605-3, Sioux Falls Parks & Recreation Department, City of Sioux Falls, 600 East 7th Street, Sioux Falls, SD 57105.

The Chief Engineer is recommending APPROVAL of Application No. 5605-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) in the public interest with the following qualifications:

1. The wells approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The wells authorized pursuant to this permit shall be constructed by a licensed well driller and construction shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04.
3. This permit is approved subject to the irrigation water use questionnaire being submitted each year.

See report on application for additional information.



JOHN HATCH, Chief Engineer  
March 5, 1992



**DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES**

JOE FOSS BUILDING  
523 EAST CAPITOL  
PIERRE SOUTH DAKOTA 57501-3181

NOTE: TO BE SURE OF PUBLICATION ON  
THE CORRECT DATES, CONTACT  
THE NEWSPAPER RIGHT AWAY.

March 20, 1992

Pamela Taylor  
Sioux Falls Park & Recreation Dept  
600 East 7th Street  
Sioux Falls, SD 57105

Dear Ms. Taylor:

Water Permit Application No. 5605-3 for irrigation use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice of hearing has been sent to the Publisher of The Argus Leader printed at Sioux Falls, SD and Sioux Valley News printed at Canton, SD. For your information, a copy of the notice, the recommendation of the Chief Engineer and a report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspaper to authorize publication of your Notice of Hearing and to arrange for payment. Early contact with the paper can eliminate delays. The publisher has been instructed to publish your notice once each week for two consecutive weeks with the last publication to occur twenty days before the board meeting. The newspaper has been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the application.

Sincerely,

*Eric Gronlund*  
Eric Gronlund  
Natural Resources Engineer  
605 773-3352

enclosures

NOTE: If you plan to contest any part of the Chief Engineer's recommendation, you must file a petition pursuant to the procedures outlined in the attached notice of hearing. The Water Management Board will then consider your concerns during a hearing on the application.

cc: Lowen Schuett, Park Super, SF Park & Rec Dept, 600 E 7th St, Sioux Falls, SD 57105



**DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES**

JOE FOSS BUILDING  
523 EAST CAPITOL  
PIERRE SOUTH DAKOTA 57501-3181

March 20, 1992

The Argus Leader  
PO Box 5034  
Sioux Falls, SD 57117-5034

ATTENTION: Legal Department

Enclosed is a Notice of Hearing on Application No. 5605-3 to be published twice. Please publish the first notice on March 26, 1992, with the second publication 7 days later.

The APPLICANT MUST VERIFY TO YOU THAT THE NOTICE IS TO BE PUBLISHED, before you make the first publication. Please BILL the APPLICANT for the cost of publication. The APPLICANT is the Sioux Falls Park & Recreation Department, 600 East 7th St, Sioux Falls, SD 57105.

A copy of BOTH publications must be SENT to the WATER RIGHTS DIVISION. IMMEDIATELY return the FIRST publication with the FIRST Transmittal form on the bottom of this page. The first copy is needed to check the publication for errors so any corrections can be made in the second publication. Publication errors can invalidate the public notice and cause the applicant costly delays.

Please be sure the SECOND publication is returned IMMEDIATELY with the enclosed Proof of Publication form. DO NOT WAIT until the end of the month or the billing cycle. No action may be taken on the permit application until proof of publication has been received.

Sincerely,

*Eric Gronlund*

Eric Gronlund  
Natural Resources Engineer  
605 773-3352

enclosures

-----CUT HERE-----  
FIRST TRANSMITTAL NOTICE

TO: Eric Gronlund  
Water Rights Division  
Joe Foss Building  
Pierre SD 57501-3181

No. \_\_\_\_\_

Date \_\_\_\_\_

We are in receipt of your letter of \_\_\_\_\_ enclosing Notice of Hearing to  
Appropriate Water by Application No. \_\_\_\_\_ which was first published in our issue  
of \_\_\_\_\_. ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.

\_\_\_\_\_  
Name

\_\_\_\_\_  
Newspaper



**DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES**

JOE FOSS BUILDING  
523 EAST CAPITOL  
PIERRE SOUTH DAKOTA 57501-3181

March 20, 1992

Sioux Valley News  
Box 255  
Canton, SD 57013

ATTENTION: Legal Department

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605 773-3352

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Water Rights Division  
Joe Foss Building  
Pierre SD 57501-3181

No. \_\_\_\_\_

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\_\_\_\_\_  
Name

\_\_\_\_\_  
Newspaper

Instruction to Newspaper - Publish first Notice on March 26, 1992, with the second publication 7 days later. The applicant is responsible for payment.

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NOTICE OF HEARING on Application No. 5605-3 to Appropriate Water

Notice is given that the Sioux Falls Park & Recreation Department, 600 East 7th Street, Sioux Falls, SD 57105 has filed an application for a water permit to appropriate 1.5 cubic feet of water per second from five wells (Big Sioux:South Aquifer) approximately 25 feet deep located in the S 1/2 NW 1/4 Section 33-T101N-R49W to irrigate 170 acres located in the SW 1/4, W 1/2 SE 1/4 Section 11; NW 1/4 Section 14; N 1/2 SE 1/4 Section 10; all in T100N-R50W and the S 1/2 NW 1/4 Section 33-T101N-R49W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 5605-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. Unless a petition is filed opposing the application or the applicant files a petition contesting the chief engineer's recommendation, the Water Management Board will NOT CONDUCT a HEARING to consider this application and the chief engineer will issue the permit as recommended. Petitions filed in support of the application will NOT require the Board to hear the application.

Any person interested in opposing or supporting this application must file a written petition with BOTH the applicant and Chief Engineer. The applicant must also file a petition if opposed to the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Division, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by April 13, 1992. The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained.

For purposes of publishing 1) the notice of hearing on Application No. 5605-3 and 2) the chief engineer's recommendation, a meeting at the Division of Water Rights office to hear this application is scheduled for April 22, 1992, at 9:00 am in Room 413, Joe Foss Building, 523 E Capitol, Pierre SD. If this application is opposed or the recommendation is contested, the April 22, 1992, hearing date will be rescheduled for a regularly scheduled Board meeting. Notice of the time and place of the rescheduled hearing before the Board will be given by First Class Mail to the applicant and persons filing petitions. Anyone not filing a petition, but interested in attending the hearing, may contact the Division of Water Rights to confirm a hearing date and location. The April 22, 1992, hearing date will be automatically delayed for at least 20 days upon written request to the Chief Engineer from the applicant or any interested person opposing the application. The request for an automatic delay must be filed by April 13, 1992.

If a hearing is held, the Chief Engineer's recommendation is not final or binding upon the Board. The Board is authorized to 1) approve, 2) approve with qualifications, 3) defer, or 4) deny this application based on the facts presented at the public hearing. Any hearing will be an adversary proceeding. Any person filing a petition and/or the applicant have the right to be represented by a lawyer and may present evidence or cross-examine witnesses according to SDCL 1-26. These and other due process rights will be forfeited if not exercised. Decisions of the Board may be appealed to the Circuit Court and State Supreme Court as provided by law. Contact the Water Rights Division to request copies of information pertaining to this application or to assure access to the hearing by the handicapped.

This application is made pursuant to SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-16; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17; 46-2A-1 thru 46-2A-10, 46-2A-12, 46-2A-14, 46-2A-15; 46-5-1 thru 46-5-11, 46-5-13 thru 46-5-15, 46-5-24, 46-5-25, 46-5-30.2, 46-5-30.4, 46-5-31; 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14, 46-6-26; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15.

# Affidavit of Publication

STATE OF SOUTH DAKOTA  
COUNTY OF LINCOLN

ss:

Sandra Lundstrom

being first duly sworn on her oath says: that the Sioux Valley News is a legal weekly newspaper of general circulation as required by South Dakota Code of Nineteen Hundred Thirty-Nine, and any acts amendatory thereto, printed and published by the Sioux Valley News, Inc., in Canton, in said county and State, and has been such legal newspaper during the time hereinafter mentioned; that she is and during all of said time was bookkeeper of said newspaper and has personal knowledge of the facts stated in this affidavit; that the advertisement headed:

NOTICE OF HEARING ON APPLICATION NO.  
5605-3 TO APPROPRIATE WATER

a printed copy of which is hereto attached, was printed and published in said newspaper for .....two..... successive weeks upon the following dates, to-wit:

March 26, April 2, 1992

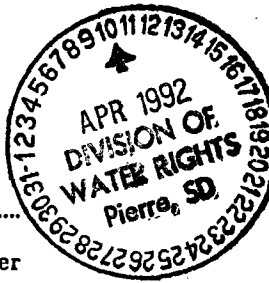
that the full amount of the fees charged for publishing the same to-wit: the sum of .....\$63.16..... inures solely to the benefit of the publishers of said newspaper; that no agreement or understanding for any division of this sum has been made with any other person; and that no part of said sum has been agreed to be paid to any person whomsoever.

*Sandra Lundstrom*

Subscribed and sworn to before me this 2nd.....  
day of .....April....., 1992

*Vernon R. Thorson*  
Notary Public, South Dakota

VERNON R. THORSON  
My commission expires  
January 20, 1995.



## NOTICE OF HEARING on Application No. 5605-3 To Appropriate Water

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# AFFIDAVIT OF PUBLICATION

STATE OF SOUTH DAKOTA,

SS.

COUNTY OF MINNEHAHA

M. DEVISH

\_\_\_\_\_ being duly sworn, says: That the Argus Leader is, and during all the times hereinafter mentioned was, a daily legal newspaper as defined by SDCL 17-2-21, as amended published at Sioux Falls, Minnehaha County, South Dakota, by Sioux Falls Newspapers, Inc.; that affiant is and during all of said times, was an employee of the publisher of such newspaper and has personal knowledge of the facts stated in this affidavit; that the notice, order or advertisement, a printed copy of which is hereto attached, was published in said newspaper upon

Thursday, the 26 day of March, 1992,

Thursday, the 2 day of April, 1992,

\_\_\_\_\_, the \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_,

\_\_\_\_\_, the \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_,

\_\_\_\_\_, the \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_,

\_\_\_\_\_, the \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_,

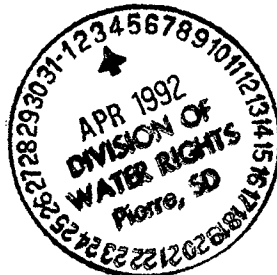
\_\_\_\_\_, the \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_,

and that \$105.91 was charged for publishing the same for display advertising.

M. Devish

Subscribed and sworn to before me April 2, 1992.

Nancy A. Buckley  
Notary Public, South Dakota



This application is made pursuant to SDCL 46-1-1 thru 46-1-12, 46-1-16; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17; 46-2A-1 thru 46-2A-10, 46-2A-12, 46-2A-14, 46-2A-15; 46-5-1 thru 46-5-11, 46-5-13 thru 46-5-15, 46-5-24, 46-5-25, 46-5-30.2, 46-5-30.4, 46-5-31; 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14, 46-6-26; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15.

2638

March 26; April 2, 1992

## NOTICE OF HEARING on Application No. 5605-3 to Appropriate Water

Notice is given that the Sioux Falls Park & Recreation Department, 600 East 7th Street, Sioux Falls, SD 57105 has filed an application for a water permit to appropriate 1.5 cubic feet of water per second from five wells (Big Sioux: South Aquifer) approximately 25 feet deep located in the S 1/2 NW 1/4 Section 33-T101N-R49W to irrigate 170 acres located in the SW 1/4, W 1/2 SE 1/4 Section 11; NW 1/4 Section 14; N 1/2 SE 1/4 Section 10; all in T100N-R50W and the S 1/2 NW 1/4 Section 33-T101N-R49W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 5605-3 because 1) unappropriated water is available, 2) existing rights will not be unduly impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. Unless a petition is filed opposing the application or the applicant files a petition contesting the chief engineer's recommendation, the Water Management Board will NOT CONDUCT a HEARING to consider this application and the chief engineer will issue the permit as recommended. Petitions filed in support of the application will NOT require the Board to hear the application.

Any person interested in opposing or supporting this application must file a written petition with BOTH the applicant and Chief Engineer. The applicant must also file a petition if opposed to the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Division, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by April 13, 1992. The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained.

For purposes of publishing 1) the notice of hearing on Application No. 5605-3 and 2) the chief engineer's recommendation, a meeting at the Division of Water Rights office to hear this application is scheduled for April 22, 1992, at 9:00 am in Room 413, Joe Foss Building, 523 E Capitol, Pierre SD. If this application is opposed or the recommendation is contested, the April 22, 1992, hearing date will be rescheduled for a regularly scheduled Board meeting. Notice of the time and place of the rescheduled hearing before the Board will be given by First Class Mail to the applicant and persons filing petitions. Anyone not filing a petition, but interested in attending the hearing, may contact the Division of Water Rights to confirm a hearing date and location. The April 22, 1992, hearing date will be automatically delayed for at least 20 days upon written request to the Chief Engineer from the applicant or any interested person opposing the application. The request for an automatic delay must be filed by April 13, 1992.

If a hearing is held, the Chief Engineer's recommendation is not final or binding upon the Board. The Board is authorized to 1) approve, 2) approve with qualifications, 3) defer, or 4) deny this application based on the facts presented at the public hearing. Any hearing will be an adversary proceeding. Any person filing a petition and/or the applicant have the right to be represented by a lawyer and may present evidence or cross-examine witnesses according to SDCL 1-26. These and other due process rights will be forfeited if not exercised. Decisions of the Board may be appealed to the Circuit Court and State Supreme Court as provided by law. Contact the Water Rights Division to request copies of information pertaining to this application or to assure access to the hearing by the handicapped.



APR 24 1992

**DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES**

JOE FOSS BUILDING  
523 EAST CAPITOL  
PIERRE SOUTH DAKOTA 57501-3181

Pamela Taylor  
Sioux Falls Park & Recreation Department  
600 East 7th Street  
Sioux Falls, SD 57105

Dear Ms. Taylor:

Enclosed is Water Permit No. 5605-3 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

Also enclosed is Form 10, Notice of Completion of Works and Application of Water to Beneficial Use, which you are to complete and submit to the Chief Engineer when you have completed the system and/or have put the water to beneficial use. An inspection can then be scheduled so that the Water License may be issued, thus completing your acquisition of a Water Right.

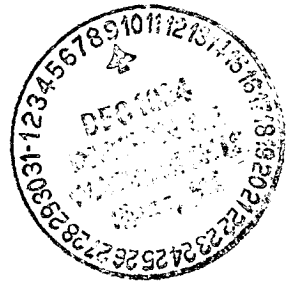
Very truly yours,

JOHN HATCH, Chief Engineer  
Water Rights Division  
605 773-3352

enclosures

**PLEASE NOTE:** Certain changes can be made in your permit within the five year construction period, usually without affecting the priority date provided an application to amend your permit is made within the five year period - i.e. changes in location or number of diversion points (wells) or location of land to be irrigated. Well locations for wells into the same aquifer can be moved up to 660 feet without application.

Applications to amend a permit after the five year construction period will be assigned a new priority date. Applications to change water sources, to add lands or increase original diversion rates, if approved will usually receive the date of the new application as a priority date regardless of the five year construction period.

**NOTICE OF COMPLETION OF WORKS AND  
APPLICATION OF WATER TO BENEFICIAL USE**Date December 1, 1994

TO: Water Rights Division, DENR  
523 E. Capitol  
Pierre, SD 57501-3181

FROM: Park and Recreation Department  
City Sioux Falls 600 East 7th Street  
(name) (address)  
Sioux Falls SD 57102 605-339-7060  
(city) (state) (zip) (phone)

I have completed the construction of the water diversion system and I have put the water to beneficial use to the maximum extent it is going to be used. I have not exceeded the amounts specified in Water Permit No. 5605-3.

Water Permit No. 5605-3 states that the diversion system is to be constructed by April 22, 1997, and that the water is put to beneficial use by April 22, 2001.  
(date) (date)

The diversion system was completed on May 25, 1993 (one well)  
(date)

Applying the water to beneficial use was completed on April 1994.  
(date)

You may schedule an inspection so that the Water License may be issued.

  
(signature)

## Conversation or File Documentation

NAME OF PERSON OR FILE: Sioux Falls Parks + Recreation Dept.ADDRESS: 600 East 7<sup>th</sup> Street COUNTY MinnehahaDATE: 7-6-95 TELEPHONE 605-339-7060

RE: \_\_\_\_\_

## COMMENTS:

I inspected water Permit No. 5605-3 on June 28, 1995 and found that none of the wells have been developed. Mr. Lowen Schuett filled out Form 10 "Notice of Completion of Works." Lowen told me they do intend to develop the permit but need to budget it for next year. The Diversion System is to be completed by November 4, 1997 and the water to beneficial use by November 4, 2001. This permit should be re-inspected at the time the diversion system is completed or construction period has ended, whichever comes first.

Barry A. McFarland  
Water Rights Division

File in Permit or other file as necessary. Use to document conversations and what the other party was told; why action or decision was made.

NAME: \_\_\_\_\_



**DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES**

JOE FOSS BUILDING  
523 EAST CAPITOL  
PIERRE, SOUTH DAKOTA 57501-3182  
[www.state.sd.us/denr](http://www.state.sd.us/denr)

JUN 20 2003

City of Sioux Falls  
Diane Gildemaster  
Parks and Recreation Department  
600 East 7<sup>th</sup> St  
Sioux Falls SD 57103

Dear Ms. Gildemaster:

Enclosed are Water License Nos. 5416-3, 5512-3, 5698-3 and 5775-3 for the Parks and Recreation Department. A map prepared by Lynn Beck is also included for each permit as well as receipts for payment of the license fees.

These are the final water right documents completing the city's process of obtaining Water Rights.

As long as the Parks and Recreation Department uses the water beneficially, as stated in the Water Licenses, State Water Laws provide a continuing right to use the water.

Sincerely,

Garland Erbele, Chief Engineer  
Water Rights Program  
(605) 773-3352

NOTE: The applicable portions of No. 5605-3 are incorporated into Water License No. 5698-3.

enclosures