

Water Right Number 3948-3

1. Considered 5-25, 19 77
2. Name of Applicant CLARE KNUTSON
3. Post Office Address WAKONDA
4. Amount of water claimed 2.0
5. Source of water supply 40' DEEP WELL
6. Water to be used for IRRIGATION
- Acres to be irrigated 138
7. Water to be diverted and used in CLAY County
about 3S, 4W Miles of CENTERVILLE
8. Proof of Publication Received 5-24-77
Not received
9. Application Approved
Subject to
Not approved
Action deferred

10. Remarks:

Map No. 3199-3 Water Division No. 3 VERMILLION RIVER District
(Blanks to be filled by the Engineer for the W. R. C.)

APPLICATION FOR PERMIT

To Appropriate Water within the State of South Dakota

(NOTE--Draw a line through item, if not applicable)

1. Name of Applicant Clare Knutson
Postoffice address W. Kan. 657073 State South Dakota
If a corporation show date and place of incorporation _____
2. Method of accomplishing work (contract, employment of others, or by direct labor) Contract & Direct Labor
3. Name of diversion work Clare Knutson Irrigation Project #1
4. Amount of water claimed (cubic feet per second) 2.0
5. Source of water supply well
6. Location of point of diversion 1910' N 46° E of SW corner of
Sec 6 - 95-52
County Clay
7. Annual period or periods during which water is to be used April through October
8. Use to be made of water, (irrigation, industrial, municipal, commercial, recreation, etc.) Irrigation
9. For irrigation use, _____ Total number of acres to be irrigated 138

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.	Land Description	No. Acres Irr.
NW 1/4 Sec 6 - 95-52	39		
NE 1/4 " " " "	40		
SW 1/4 " " " "	39		
SE 1/4 " " " "	21		

Attach sheet if more space is needed

10. Time required to complete construction of water supply system Four years. Additional time required to complete application of water to the proposed beneficial use three years.
11. Choice of newspaper for Notice of Intent to Appropriate Water publication Coxsack Journal
12. Principal Features of the Proposed Water Supply System:

A. Works proposed to divert water from its natural source. well with deep well turbineB. Works proposed to transport water to place of use. closed conduitC. Works proposed to apply water to beneficial use. center pivot irrigation machineEstimated Total Cost \$ 90,000

Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed. Attach map.
(See instructions concerning preparation.)

STATE OF SOUTH DAKOTA

County of Brockings

I Clare Knutson the applicant, certify that I have read the foregoing application and have examined the attached map and that the matters therein stated are true and that I intend, and am able to complete the necessary construction

Signed Clare KnutsonSubscribed and sworn to before me this 3 day of June 1976

Notary Public (or other qualified officer)

P. E. # 1916



WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 3948-3CLARE KNUTSON
(Applicant)WAKONDA

(Post Office Address)

SOUTH DAKOTA 57073
(State)

With the following modifications:

The irrigation well approved under this Permit will be located near domestic wells and other irrigation wells which may obtain water from the same aquifer. The irrigation well owner, under this Permit, shall control his irrigation withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in irrigation wells having prior water rights.

Date of first receipt of application JUNE 22, 19 76Date of return to applicant for correction, amendments or changes required —, 19 —Date of receipt of corrected application APRIL 19, 19 77Approved MAY 25, 19 77, Recorded in Book 18 Page 332WATER RIGHT PERMIT NO. 3948-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 3948-3 authorizing the construction of the water use system and the putting of water to beneficial use as stated in the Application and as modified in the Water Right Application approval, subject, however, to the following limitations and conditions:

1. The date from which applicant may claim right is APRIL 19, 19 77
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before NOVEMBER 25, 19 79
3. The whole of said work is to be completed on or before MAY 25, 19 82
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is MAY 25, 19 85
5. The water appropriated shall be used for the purpose of IRRIGATION

6. The prior right of all persons who, by compliance with the laws of the State of South Dakota, have acquired a right to the use of water must not be injuriously affected by this appropriation.

7. The amount of the appropriation herein granted shall not exceed 2.0 cubic feet per second; neither shall it exceed the capacity of the above described water supply system, nor shall it exceed the amount of water needed for beneficial uses served, and if for the irrigation purposes said appropriation must be limited to not more than 3 acre feet per acre per year and be limited to not more than one-seventieth (1/70) of one cubic foot of water per second of time for each acre of land to which water is actually and beneficially applied for irrigation on or before MAY 25, 19 85; said water to be used during the following described annual period: APRIL THRU OCTOBER

Witness my hand this 2ND day of AUGUST, 19 77

WATER RIGHTS COMMISSION

By:

John Hatch
Chief Engineer, Executive OfficerCertificate of Construction Issued June 23, 19 77Water License Issued June 23, 19 77

12. Principal Features of the Proposed Water Supply System (continued.)

D. Well Information or Estimates

- (1) Drill Hole, Diameter 16", Depth 146'
 (2) Casing, Type Steel (wood, concrete, steel, etc) Diameter 16" Thickness 3/16"
 (3) Perforated Screen, Type Johnson Irregular, Diameter 16", Length 15"
 (4) Gravel Pack, Thickness 8", Length of gravel pack 30'

E. Dugout Information or Estimates

- (1) Surface dimensions _____, Depth _____

F. Fill cut for Either a Well or a Dugout.

- (1) Water Bearing Materials. (Please attach a copy to test well log if available.)

Character of Water bearing materials 0' to 50' clay, 50' to 70' blue
clay, 70' to 80' fine sand, 80' to 140' medium
to coarse gravel

Depth to top of water bearing material 80'

Depth to bottom of water bearing material 140'

Thickness of water bearing material 60'

Depth to water (ground surface to water level) 85'

- (2) Distance to nearest existing household or livestock watering wells.

On same owner's property 60 rds. On property owned by others 70 rds.

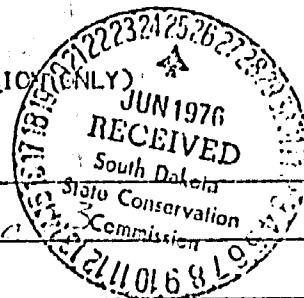
G. Water Storage Dams.

If the proposed water use system contains one or more water storage dams, please show in the space below, the height, maximum water depth, surface area and storage capacity of each storage dam. The location of each water storage dam should be shown on the water right map.

Clara Southern
 Signature of Applicant

Conditional
Firm attached

STATE CONSERVATION COMMISSION
SUPPORTING INFORMATION
FOR APPROPRIATION OF GROUND WATER IN ACCORDANCE
WITH SDCL 46-6-3 AS AMENDED
(THIS FORM REQUIRED FOR PROPOSED GROUND WATER IRRIGATION)



NAME Clare Knudson
ADDRESS Wakanda South Dakota - 570
COUNTY Chey

LEGAL DESCRIPTION

1. WELL LOCATION Nearly center of Sec 6 - 95 - 52
2. LOCATION OF AREA TO BE IRRIGATED SW 1/4 of Sec 6 - 95 - 52

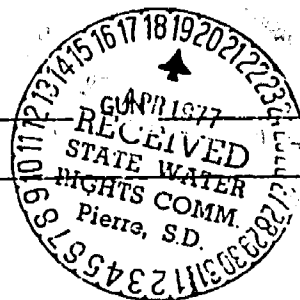
TYPE OF IRRIGATION

3. GRAVITY _____ TOWLINE _____ CENTER PIVOT C
4. CROPS TO BE IRRIGATED _____

Rec'd info via phone on
Mar. 24, 77 from Dr. Fink BLUE INIC - New ANALYSIS

WATER QUALITY

5. SAMPLE NUMBER 76-580 (77-115)
6. SALINITY (EC X 10⁶) 2333 (very high) 2262
7. SODIUM (SAR) 0.45 (low) 0.42
8. RESIDUAL SODIUM CARBONATE (meq/l.) 0 0 152-6307



I do hereby certify that a chemical analysis of the ground water representative of that used to irrigate shall be acquired from South Dakota State University and:
the soils information has been acquired from _____ Conservation District,
County Extension office or Soil Conservation Service.
and:
that the legal description for the location of the well and land to be irrigated is true and correct.

Clare Knudson
APPLICANT'S SIGNATURE

SUBSCRIBED AND SWORN BEFORE ME THIS
DAY OF _____ 19 76.

[Signature]
(TITLE OR SEAL)

approved
[Signature]

[Signature]
APPROVED/NOT APPROVED

(SOILS INFORMATION ON REVERSE SIDE)

Signed

REPORT OF ANALYSIS
 Water Quality Laboratory
 Water Resources Research Institute
 South Dakota State University
 Brookings, South Dakota 57006

Submitted by: Clare Knutson Date Rec'd January 21, 1977
 Address: Wakonda, SD 57073 Sample No. 77-115
 Identification Well-140'
S.W. 1/4, Sec. 6, T. 25N, R. 52E

WATER ANALYSIS

Calcium (Ca)	389	ppm*	19.45	me/l**
Magnesium (Mg)	134	ppm	10.99	me/l
Sodium (Na)	38	ppm	1.65	me/l
Potassium (K)	20	ppm	0.52	me/l
Sulfate (SO ₄)	1035	ppm	21.53	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	2	ppm	0.06	me/l
Bicarbonate (HCO ₃)	451	ppm	7.40	me/l
Carbonate (CO ₃)		ppm		me/l
Iron (Fe)		ppm		me/l
Fluoride (F)		ppm		g.p.g.***
Hardness (EDTA as CaCO ₃)		ppm		
Alkalinity (Methyl Orange)	370	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	2262	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.42			
Sodium	5.05	% of cations		
Residual sodium carbonate	0.0	me/l		
pH	7.31			

*ppm=parts per million

**me/l=millequivalents per liter

***g.p.g.=grains per gallon

COMMENTS: Total cations 32.61 me/l
 Total anions 28.99 me/l

By: Shirley Mitten

Service Performed	Amount Due
Irrigation analysis	\$15.00 PAID

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 77-115

Amount Enclosed \$

Signed Neely Sample

June 22, 1976

Mr. Clare Knutson
Wakonda, SD 57073

Dear Mr. Knutson:

We have completed the analysis of your water sample #76-580 submitted here June 3. I am enclosing the original copy for your to keep. This report shows a very high salinity level in the water, but low sodium content.

Accordingly, this water carries a considerable tonage of salt, almost 2 tons of total salt for each acre foot of water you add to the land. You should therefore use it with the knowledge that on poorly drained or slowly drained soils, this salt is going to have a tendency to be retained in the surface portion, that part of the soil which is being dried out by evaporation and by root growth and plant use. Thus, it is not suitable for application in frequent, light amounts because of the accelerated tendency with this technique of application. The accelerated tendency I refer to is the speed-up of salt accumulation. Some application devices allow you to put on sufficient quantities so the salt is well distributed through the root zone; some do not. With a center pivot system, and the silty clay loams which you have in part of this land, you would encounter serious difficulties putting on 3 inches or more. Thus, if you develop this water supply and proceed to irrigate, you should do so with full awareness of the hazard which exists for salt accumulation. I would not use the water on valuable land, myself, unless I was absolutely sure I could apply the water in such a fashion as to cause leaching about once every 3 or 4 years.

However, this is only a recommendation and I am sending the materials on to the State Conservation Commission for their formal action. You will be hearing from them as to their decision. I have plotted the quality of this water for irrigation uses in the diagram on the outside back cover of AES publication #13. I think you will find it worthwhile to read this publication.

A description for the location of the well and land to be irrigated.
Sincerely yours,

L. O. Pine

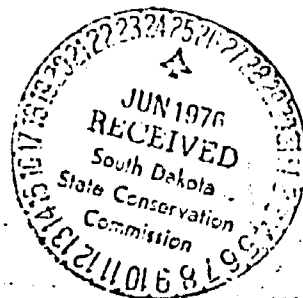
L. O. Pine
Water Quality Lab
LOF:ckb

Enclosures

cc: State Conservation Commission

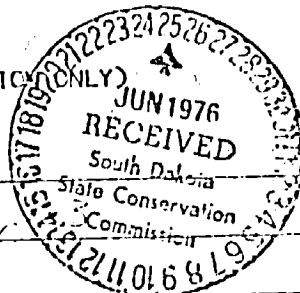
D. Pahl

Robert Schurrer, County Extension Agent



ERVATION
MISSION
M W1 #1

STATE CONSERVATION COMMISSION
SUPPORTING INFORMATION
FOR APPROPRIATION OF GROUND WATER IN ACCORDANCE
WITH SDCL 46-6-3 AS AMENDED
(THIS FORM REQUIRED FOR PROPOSED GROUND WATER IRRIGATION ONLY)



NAME Clare Knutson
ADDRESS Wakarusa South Dakota - 570
COUNTY Craig

LEGAL DESCRIPTION

1. WELL LOCATION Nearly center of SW 1/4 of Sec 6 - 95 - 52
2. LOCATION OF AREA TO BE IRRIGATED SW 1/4 of Sec 6 - 95 - 52

TYPE OF IRRIGATION

3. GRAVITY _____ TOWLINE _____ CENTER PIVOT ✓ GUN _____
4. CROPS TO BE IRRIGATED _____

WATER QUALITY

5. SAMPLE NUMBER 76-580
6. SALINITY (EC X 10⁶) 2333 (very high)
7. SODIUM (SAR) 0.45 (low)
8. RESIDUAL SODIUM CARBONATE (meq/l.) 0

I do hereby certify that a chemical analysis of the ground water representative of that used to irrigate shall be acquired from South Dakota State University and: the soils information has been acquired from _____ Conservation District, County Extension office or Soil Conservation Service. and: that the legal description for the location of the well and land to be irrigated is true and correct.

Clare Knutson
APPLICANT'S SIGNATURE

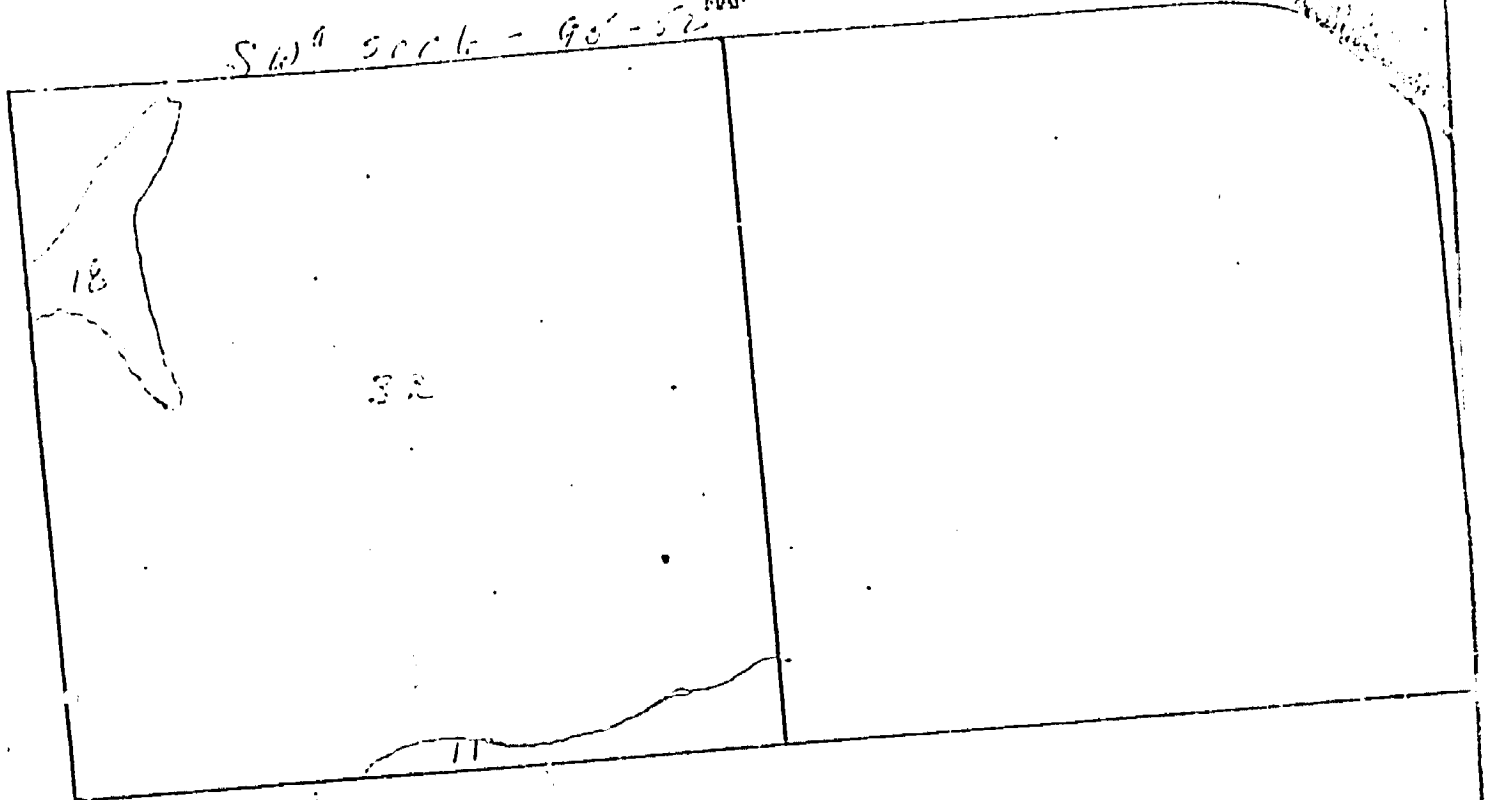
SUBSCRIBED AND SWORN BEFORE ME THIS
3 DAY OF July 19 76.

John J. Williams
(TITLE OR SEAL)

APPROVED
APPROVED/DISAPPROVED

(SOILS INFORMATION ON REVERSE SIDE)

SW^{1/4} sec 6 - 90'-52" MAP

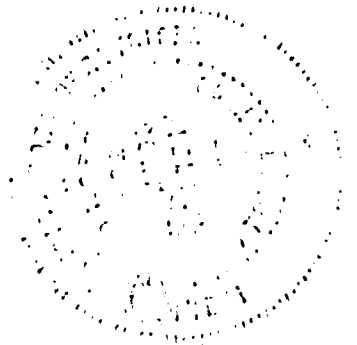


NARRATIVE

11 - Barnes loam - 3% to 5% slope

18 - Patnell silty clay loam nearly level

32 - Trent silty clay loam - Barnes loam nearly level



REPORT OF ANALYSIS
Water Quality Laboratory,
Water Resources Research Institute
South Dakota State University
Brookings, South Dakota 57006

Submitted by: Olaf Krutson

Date Rec'd June 3, 1976

Address Wakarusa, SD 57073

Sample No. 76-580

Identification 111-140

SW2, Sec. 6, T. 95N, R. 52W

WATER ANALYSIS

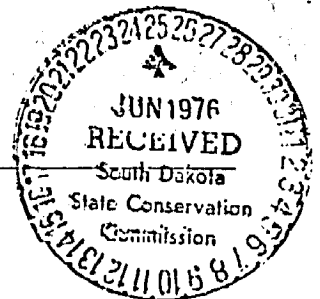
Calcium (Ca)	480	ppm*	24.00	me/l**
Magnesium (Mg)	170	ppm	13.94	me/l
Sodium (Na)	45	ppm	1.96	me/l
Potassium (K)	19	ppm	0.49	me/l
Sulfate (SO ₄)	1490	ppm	30.99	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	3	ppm	0.08	me/l
Bicarbonate (HCO ₃)	215	ppm	3.52	me/l
Carbonate (CO ₃)		ppm		me/l
Iron (Fe)		ppm		me/l
Fluoride (F)		ppm		me/l
Hardness (EDTA as CaCO ₃)		ppm		g.p.g.***
Alkalinity (Methyl Orange)	176	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	2333	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.45			
Sodium	4.85	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.87			

*ppm=parts per million

**me/l=millequivalents per liter

***g.p.g.=grains per gallon

COMMENTS: Total cations 40.39 me/l
Total anions 34.59 me/l



By: Shirley Litten

Service Performed

Amount Due

Irrigation analysis

\$8.00 PAID

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 76-580

Amount Enclosed \$

Signed

WATER LICENSE NO 3948-3

(1) WHEREAS, On the 19th day of April A. D. 77
Clare Knutson

made Water Right Application No. 3948-3 for a permit to use 2.0 cubic feet per second of the waters of ground water (one well)

County of Clay, State of South Dakota, for Irrigation

purpose; and

(2) WHEREAS, On the 25th day of May A. D. 77
 Permit No. 3948-3, with a date of priority of April 19, 1977

was issued to said applicant for the diversion of said water, and provided for the completion of construction of the water supply system therein described on or before the 25th day of May A. D. 82 and for the application to beneficial use of said water on or before the 25th day of May A. D. 85

and:

(3) WHEREAS, It is hereby certified that the applicant has complied with the provisions of the laws of the State of South Dakota relating to completion of the construction of the water supply system and is entitled to divert 1.88 cubic feet per second of water for beneficial use and,

(4) WHEREAS, It is hereby certified that the applicant has complied with the provisions of the laws of the State of South Dakota relating to the application of water to beneficial use of the following extent.

for irrigating a 135 acre circle in the SW $\frac{1}{4}$ Section 6, T95N, R52W

Clare Knutson

Wakonda

(5) NOW, THEREFORE, By the virtue of the authority vested in us by the laws of the State of South Dakota, We hereby grant and confirm to _____
3948-3 April 19, 1977

1.88

_____ of _____
ground water (one well)
the holder _____ and owner _____ of said permit No. _____ a water right, dating from _____
to use of _____ cubic feet per second of the waters
of _____
T95N, R52W

in the County of _____ and State of South Dakota, or so much thereof as may be necessary for the purposes hereinbelow mentioned, to be diverted at _____

a 135 acre circle in the SW 1/4 Section 6, T95N, R52W

and conducted to and upon _____

irrigation

for the purpose of _____
3948-3

Subject to any limitations listed in Water Right Permit No. _____ and subject to the laws of the State of South Dakota.

Eighty
WITNESS, My hand and seal of our office at Pierre, South Dakota
this _____ day of _____ A. D.
Nineteen Hundred and _____

WATER MANAGEMENT BOARD JOHN HATCH

By:

John Hatch
Chief Engineer, Executive Officer

Permit No. 3948-3

Water Diversion No. 3 Vermillion River Water District

CERTIFICATE OF CONSTRUCTION

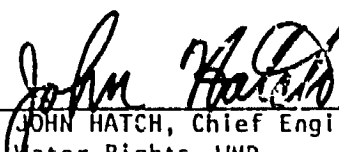
This is to Certify, That Clare Knutson

_____ the holder _____ of
Permit No. 3948-3, issued upon Application No. 3948-3, bearing date of priority of _____
April 19, 1977 authorizing the diversion of 2.0 cu. ft. per second of the waters of _____
ground water (one well) County of Clay, State of South Dakota at _____
a point 75'E of the center of the SW $\frac{1}{4}$ Section 6, T95N, R52W

_____, for Irrigation

purposes, has _____ complied with the provisions of the laws of the State of South Dakota relating to proof of completion of the works of diversion set out and described in said Permit; that said works are found in satisfactory condition for diverting and conveying to the place of intended use 1.88 cu. ft. per second of water.

Date June 23, 1980


JOHN HATCH, Chief Engineer
Water Rights, WMD

June 22, 1976

Mr. Clarence Knutson
Wakarusa, SD 57873

Dear Mr. Knutson:

We have completed the analysis of your water sample #76-500 submitted here June 9. I am enclosing the original copy for your to keep. This report shows a very high salinity level in the water, but low sodium content.

Accordingly, this water carries a considerable tonnage of salt, almost 2 tons of total salt for each acre foot of water you add to the land. You should therefore use it with the knowledge that on poorly drained or slowly drained soils, this salt is going to have a tendency to be retained in the surface portion, that part of the soil which is being dried out by evaporation and by root growth and plant use. Thus, it is not suitable for application in frequent, light amounts because of the accelerated tendency with this technique of application. The accelerated tendency I refer to is the speed-up of salt accumulation. Some application devices allow you to put on sufficient quantities so the salt is well distributed through the root zone; some do not. With a center pivot system, and the silty clay loams which you have in part of this land, you would encounter serious difficulties putting on 3 inches or more. Thus, if you develop this water supply and proceed to irrigate, you should do so with full awareness of the hazard which exists for salt accumulation. I would not use the water on valuable land, myself, unless I was absolutely sure I could apply the water in such a fashion as to cause leaching about once every 3 or 4 years.

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Sincerely yours,

L. O. Fine

L. O. Fine
Water Quality Lab
LON:ckb

Enclosures

cc: State Conservation Commission

D. Pahl

Robert Schurrer, County Extension Agent



4-14-71

SOUTH DAKOTA DEPARTMENT OF AGRICULTURE
DIVISION OF CONSERVATION

NAME OF APPLICANT Clare Knutson, Wakonda, South Dakota

LEGAL DESCRIPTION OF LAND SW 1/4 of Section 6-95-52

☐ Application is incomplete!

☐ Application approved and forwarded to DIVISION OF WATER RIGHTS FOR FURTHER ACTION.

☐ Application disapproved due to marginal condition of soil and/or water.
(Please see below for appeal procedure)

Reason for Disapproval:

- 1.) Salinity
- 2.) Sodium (Sodium Absorption Ratio)
- 3.) Sodium (Residual Sodium Carbonate)
- 4.) Soils
- 5.) Other _____

☒ Application conditionally approved and forwarded to State Conservation Commission, after review by Commission, application will be forwarded to Division of Water Rights for further action.

CONDITIONS

- 1.) Water shall not be applied more than 1, 2, 3, 4 (5) times during the irrigation season.
- 2.) Each uninterrupted application (one rotation of center pivot) shall be of at least 1, (2, 3) 4, inches of water.
- 3.) ☐ Yes ☒ No Surface drainage required
- 4.) ☐ Yes ☒ No Subsurface drainage required
- 5.) ☐ Yes ☒ No Specific land areas excluded from application

6.) ☐ Deep tillage (For the purpose of aiding movement of water through dense subsoils)

7.) ☒ Heavy full application of irrigation water

APPEAL PROCEDURES

If any applicant wishes to contest the decision of this office, they may do so by notifying this office within 90 days of receipt of this notice.

All conditioned permits and contested decisions will be taken before the State Conservation Commission for their review. Each application contesting the decision of the Department of Agriculture is entitled to appear before the Commission.

Copy to Applicant -1
Copies to Water Rights -2
Copy to File -1

Albert J. [Signature]

4-14-71

SOUTH DAKOTA DEPARTMENT OF AGRICULTURE
DIVISION OF CONSERVATION

NAME OF APPLICANT Clare Knutson, Wakonda, South Dakota

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 - 5.) ☐ Yes ☒ No Specific land areas excluded from application
- _____
- _____
- _____

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Copy to Applicant -1
Copies to Water Rights -2
Copy to File -1

Albert J. Hoff

No. 3948-3

Publish first publication, on or before May 12, 1977

NOTICE
INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

May 6, 1977

Notice is hereby given that Clare Knutson

whose post office address is Wakonda, South Dakota, has made an application in accordance with the provisions of the water laws of South Dakota for a permit to appropriate for beneficial use

2.0 cubic feet of water per second of time from the ground water through the

Clare Knutson #1, the point of diversion of which is to be located in the

SE $\frac{1}{4}$ SW $\frac{1}{4}$

of Section 6, Twp. 95N, Range 52W. Said water to be used for the purpose of providing irrigation on the following described land:

SW $\frac{1}{4}$, Section 6, T95N, R52W

This application No. 3948-3 will be considered by the Water Rights Commission at their office at Pierre upon the 25th day of May, 1977, at 10:00 A. .M. All interested persons may appear and be heard.

WATER RIGHTS COMMISSION

By:

~~XXXXXXXXXXXXXXXXXXXX~~ JAMES WINTERTON

Water Rights Specialist

BFJ/bw

cc: Clare Knutson, Wakonda, S.D. 57073

*View
138
copy*

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Turner) ss.

I, Waldemar Weverstad hereby
certify that the annexed printed copy of Notice of Intent to Appropriate
Water was taken from the Centerville Journal

A newspaper which during the whole time of publication of said notice
herein after stated, has been and is printed and published in the _____

City Centerville of _____

County of Turner and State of South Dakota;
that the said notice was published in said newspaper on the following
two dates:

May 12, 1977

May 19, 1977

Waldemar Weverstad
(Signature)
Publisher
(Title)

MAY 21, 1977
(Date Signed)

NOTICE
INTENT TO
APPROPRIATE WATER

No. 3948-3
Pierre, South Dakota 57501
May 6, 1977
Notice is hereby given that
Clare Knutson whose post
office address is Wakonda,
South Dakota, has made an
application in accordance with
the provisions of the water
laws of South Dakota for a
permit to appropriate for bene-
ficial use 2.0 cubic feet of
water per second of time from
ground water through the Clare
Knutson No. 1, the point of
diversion of which is to be
located in the SE 1/4 SW 1/4 of
Section 8, Twp. 95N, Range
57W. Said water to be used
for the purpose of providing
irrigation on portions of the
following described land: SW 1/4,
Section 8, T95N, R53W.
This application No. 3948-3
will be considered by the Water
Rights Commission at their
office at Pierre upon the 25th
day of May, 1977, at 10:00 A.M.
All interested persons may ap-
pear and be heard.
WATER RIGHTS COMMISSION
By: BURTON F. JONES
Water Rights Specialist
(Publish May 12, 19, 1977)



RECEIPT

WATER RIGHTS COMMISSION

State of South Dakota

No 4 7520

PIERRE, May 29, 1930

RECEIVED OF Clare Knutson, RR 1, Box 92, Wakonda, SD 57073

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

Fee for Application for Permit to Appropriate Water No. (examination, processing, recording and filing)		
Fee for Inspecting Construction, and issuing Cert. of Construction No. 3948-3	50.00	
Fee for Inspecting Beneficial Use, and issuing Water License No. 3948-3		
Fee for issuing Location Certificate-Dry Draw, No.		
Fee for filing		
Fee for certified copy of		
Fee for Print copy of map		
Fee for Certifying		
Fee for (any other work as provided by law)		
TOTAL	50.00	

WATER RIGHTS COMMISSION

By *(Signature)*
Chief Engineer, Executive Officer
JOHN HUTCH /bt

Permit No. 3948-3Water Division 3 VERMILLION RIVER Water District

**REPORT OF EXAMINATION OF WORKS
AND/OR APPLICATION OF WATER TO BENEFICIAL USE**

TO: WATER RIGHTS, WATER MANAGEMENT BOARD / FOSS BLDG., PIERRE, SOUTH DAKOTA 57501

I have this day made a thorough examination of the water use system constructed by CLARE
KNUTSON of WAKONDA holder
of Permit No. 3948-3, bearing date of priority of APRIL 19, 1977
authorizing the diversion of 2.0 cu. ft. per second of the waters of GROUNDWATER
for IRRIGATION purposes, in CLAY County.

I have to report on the condition of the same as follows:

The Water Use System consists of,

A. Works used to divert the water:

125' DEEP WELL w/ 16" STEEL CASING - 25' OF SS SCREEN
NATIONAL 8" PUMP, POWERED BY 100 HP US ELECTRIC
MOTOR

B. Works used to transport water to place of use,

75' OF 10" ALUMINUM MAINLINE TO PIVOT

C. Works used to apply water to beneficial use.

BUTLER HYDROMATIC CENTER PIVOT # B678EON 79TP
7 TOWER WITH ±100 END GUN

The system is in the following condition: GOOD

The point of diversion is located 75' E OF THE CENTER OF THE SW⁴
SECTION 6, T95N, R52W

The works are capable of diverting and conveying to the place of use 1.88 (850 GPM)
cu. ft. per second of water which is to be used for IRRIGATION

Water has been put to beneficial use to the maximum extent as follows:

FOR IRRIGATING A 135 ACRE CIRCLE IN THE SW⁴
SECTION 6, T95N, R52W

comprising a total of 135 acres of land.

Date

MAY 8, 1989
Clare Knutson
(Signature)



CLARE KNUTSON
RR #1, BOX 92
WAKONDA SD 57073

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3181

NOTICE

RE: Violation of Requirement to Submit 1991 Irrigation Questionnaire

Our records indicate that the 1991 Irrigation Questionnaire has not been submitted for Permit No(s) 3948-3. The request for the Questionnaire was dated October 18, 1991. The Water Management Board has directed that owners of water permits who have not submitted the 1991 Irrigation Questionnaire be given notice of hearing to determine if any Board action is to be taken concerning the violation.

The hearing will be held at 9:15 am, March 4, 1992, in the Floyd Matthew Training Center, Joe Foss Building, 523 E Capitol, Pierre SD, and will be conducted pursuant to SDCL 46-1-12, 46-1-14, 46-2-9, 46-2-11 and 46-2-17. These are contested case hearings pursuant to SDCL 1-26. Following the hearing, the Water Management Board can:

1. Amend Permit No(s) 3948-3 to require the Irrigation Water Use Questionnaire to be submitted each year;
2. Postpone any action; or
3. Take no action.

The hearing is an adversary proceeding. The permit owner has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised. Decisions of the Board may be appealed to the Circuit Court and the State Supreme Court as provided by law.

If the questionnaire(s) is(are) received in this office before the March 4th hearing date, your name will be deleted from the Board agenda.

Very truly yours,

A handwritten signature in dark ink, appearing to read "Ron Duvall", is written over a circular stamp.

Ron Duvall, Natural Resources Engineer IV
Water Rights Division
605 773-3352



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

February 5, 1992

3948-3

Clare Knutson
RR #1 Box 92
Wakonda, SD 57073

Dear Mr. Knutson:

I am writing to acknowledge receipt of your 1991 irrigation questionnaire for Water Right No. 3948-3. You may disregard the January 27, 1992, Notice of failure to submit the 1991 irrigation questionnaire. The questionnaire was received prior to the Water Management Board meeting and your name was deleted from the agenda.

If you have any questions, please contact me at (605) 773-3352.

Sincerely,

Genny McMath
Natural Resources Analyst
Water Rights Division

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b
- Print your name and address on the reverse of this form so that we can return this card to you
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt Fee will provide you the signature of the person delivered to and the date of delivery.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address

2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

CLARE KNUTSON
RR #1, BOX 92
WAKONDA, SD 57073

4a. Article Number

P906 557 614

4b. Service Type

☐ Registered ☐ Insured

☒ Certified ☐ COD

☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery

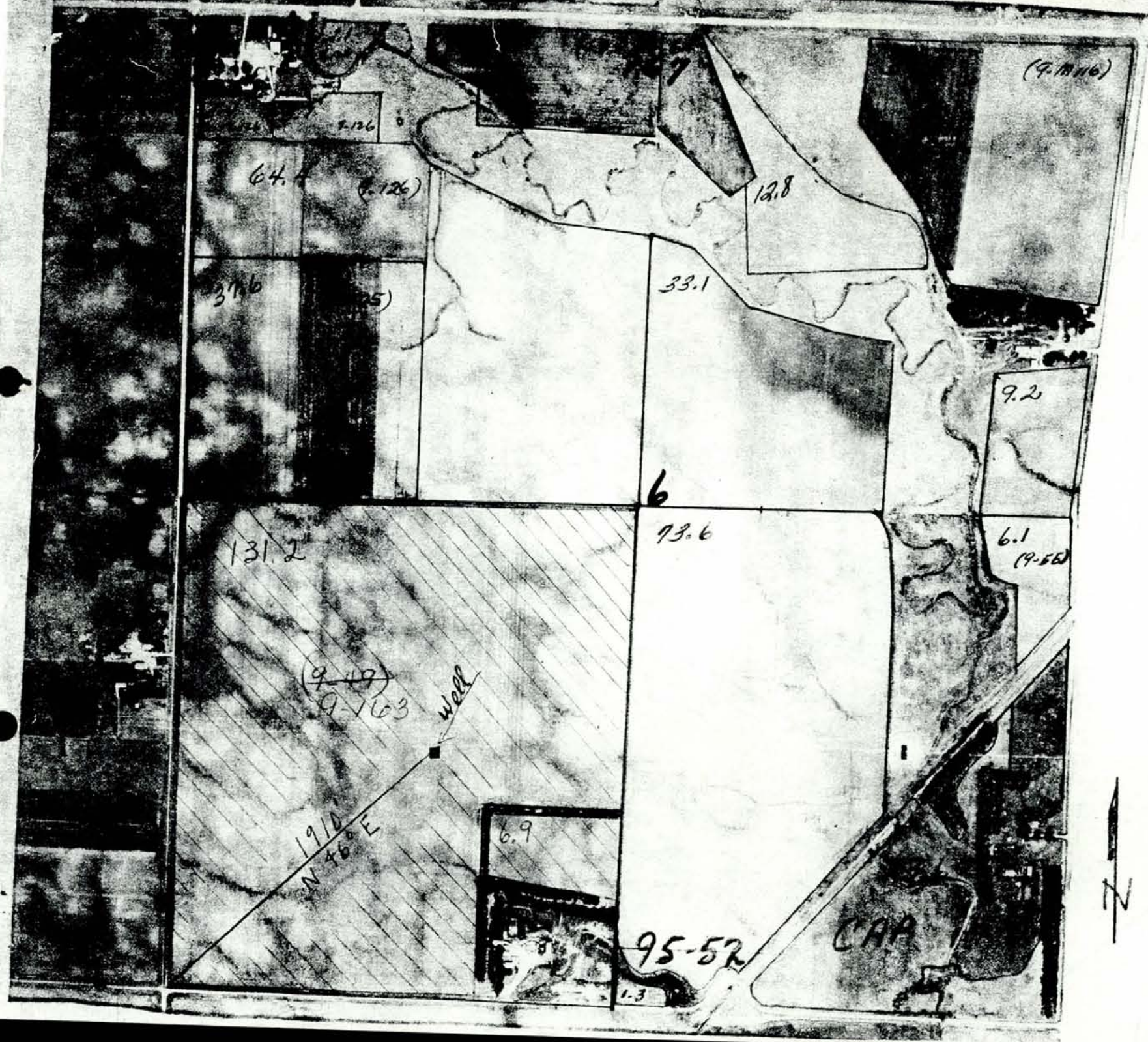
1-29-92

5. Signature (Addressee)

Clare Knutson

6. Signature (Agent)

8. Addressee's Address (Only if requested and fee is paid)



CLARE KNUTSON

Irrigation Project # 1

Sw⁴ Sec 6 - 95-52

Wakonda

S.D. & Co.

Acres Irrigated 138

water claimed 2.0 cfs

Point of Diversion - 1910' N 46° E

SW corner Sec 6 - 95-52

Scale 8" = 1 mile

Surveyor's Certificate

I, John L. Wiersma, do hereby certify that this map identifies a reasonably accurate record of the land of:

Clare Knutson

Wakonda

57073

S.D. & Co.

Clay County

6-3-76

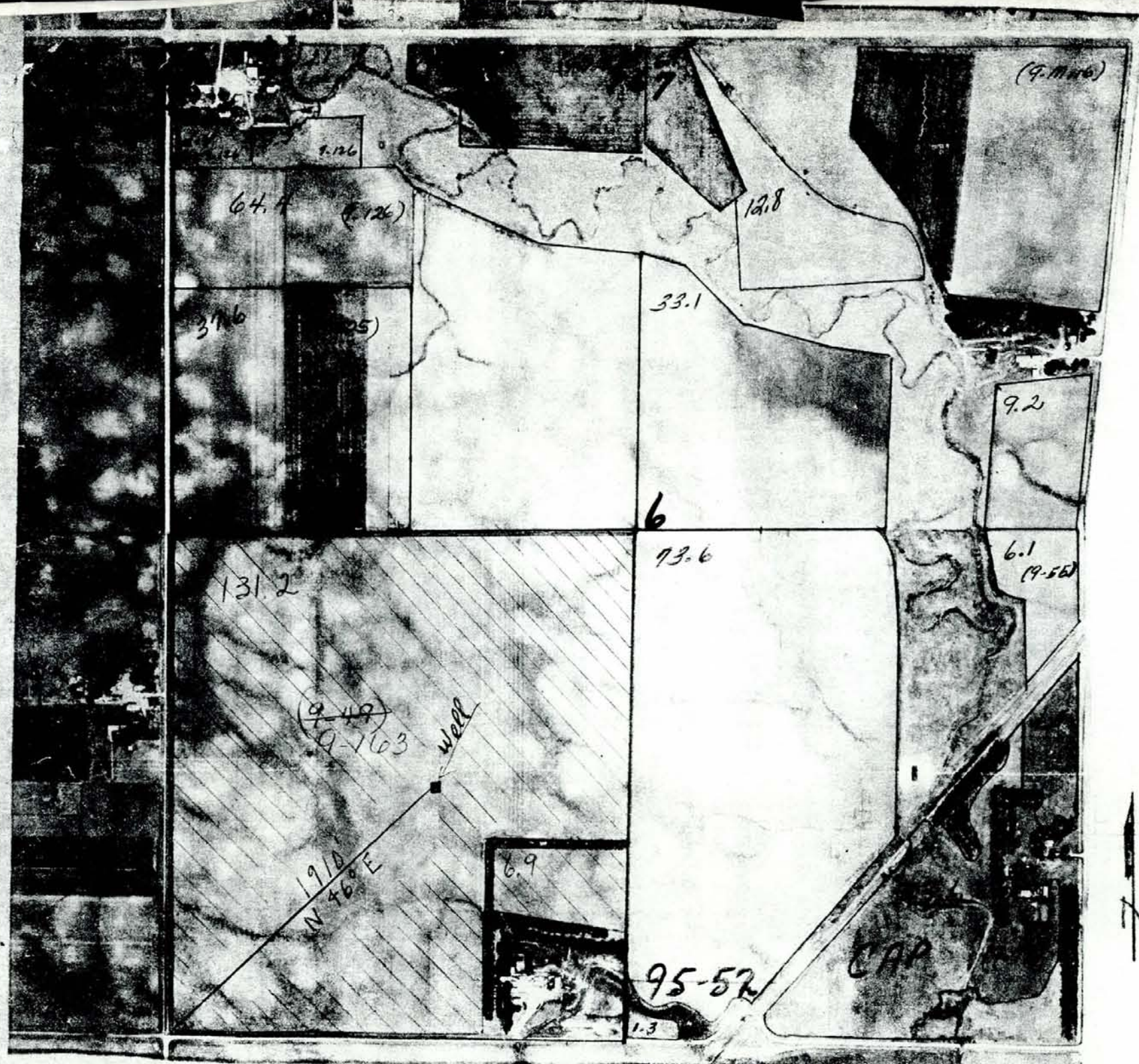
Drawn by J.L.

P.E. #1916

John L. Wiersma

Brookings S.D.

~~APPL NO 3948-3~~ APPL NO 3948-3



CLARE KNUTSON

Irrigation Project # 1

Sw⁴ Sec 6 - 95-52

Wakonda

S.D. 4th

Acres Irrigated 138

Water claimed 20 cfs

Point of Diversion - 1910' N 46° E at

SW corner Sec 6 - 95-52

Scale 8" = 1 mile

Surveyor's Certificate

I, John L. Wiersma, do hereby certify that this map identifies a reasonably accurate record of the land of:

Clare Knutson

Wakonda

57073

S.D. 4th

Clay County

6-3-76

Drawn by J.L.

P.E. #1916

John L. Wiersma

Brookings S.D.

57006

APR NO 3948-3



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
PMB 2020
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
www.denr.sd.gov

January 6, 2014

3948-3

Jason Knutson
45935 292nd St
Centerville SD 57014

Dear Mr. Knutson:

I am writing in regard to ownership of land described in Water Right No. 3948-3. It is my understanding from the notation made on the 2013 irrigation questionnaire that ownership has changed and the water right should be transferred.

Enclosed is a partially completed Notice of Transfer of Ownership form for filing an ownership change. Please review the form and make any necessary corrections. Upon completion, please sign the form and return it to our office with a required filing fee of \$50.00. The check or money order for the fee can be made payable to the Water Rights Program.

As soon as we receive the completed form and filing fee in our office, the water right will be transferred to your name. If I misunderstood the notation on the form, please give me a call.

Sincerely,

A handwritten signature in black ink that reads "Genny McMath". The signature is written in a cursive, flowing style.

Genny McMath
Water Rights Program
(605) 773-3352
email: genny.mcmath@state.sd.us

enclosure

RECEIVED

FEB - 5 2014

WATER RIGHTS
PROGRAM

NOTICE OF TRANSFER OF OWNERSHIP

To: Chief Engineer
Water Rights Program, DENR
523 E. Capitol
Pierre, SD 57501-3181

No. 3948-3

Date: 2-3-14

I/We request that Water Right No. 3948-3

formerly owned by: Clare Knutson

be transferred to: (name & address) Jason Knutson
45935 292nd St.
Centerville, SD 57014 Telephone No. 605-530-1723

Title to the following described land(s)/property has been transferred as described above:

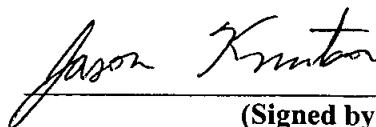
135 acres - SW 1/4 Section 6, T95N, R52W

I/We understand that the validity of Water Right No. 3948-3 has not been determined by this transfer action. If I/We have any questions on validity, I/We understand that only the Water Management Board has the authority to determine if a water permit/right is valid (see note).

You are requested to file this "Notice of Transfer" in the appropriate file with the Water Rights Program, as evidence of the change of ownership.

A fee of Fifty Dollars (\$50.00) is required to cover the filing fees as required under SDCL 46-2-13. This form must be signed by the new owner.

I/We Jason Knutson, the new owner, certify that the above information is true and correct.



(Signed by new owner)

NOTE: Water permits may be cancelled for nonconstruction after the five year construction period has expired. Once a water permit is developed and the water used, the permit becomes a right. A water right may be lost for three reasons:

1. Abandonment - no intent to use water and use is abandoned.
2. Forfeiture - no use of water for three year period without legal excuse.
3. For a third violation of a condition of a water permit/right.

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 2/5, 20 14

RECEIVED OF Jason R Knutson 45935 292nd St Centerville SD 57014

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

Fee for Application for Permit No. _____ to Appropriate Water, to construct and to put water to beneficial use	50	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 <u>3948-3</u>		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	50 00

No. **06728**

By *Joanna Dacuman*
Chief Engineer



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
PMB 2020
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
www.denr.sd.gov

February 5, 2014

3948-3

Jason Knutson
45935 292nd St
Centerville SD 57014

Dear Mr. Knutson:

I am writing to acknowledge receipt of the transfer form and filing fee you submitted for changing ownership on Water Right No. 3948-3.

The ownership change has been completed. Water Right No. 3948-3 formerly held by Clare Knutson is now listed in your name.

Enclosed for your records is Receipt No. 06728 in the amount of \$50. If you have any questions, please contact me.

Sincerely,

A handwritten signature in black ink that reads "Genny McMath".

Genny McMath
Water Rights Program
(605) 773-3352
email: genny.mcmath@state.sd.us

enclosure



3948-3
DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
PMB 2020
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

January 16, 2015

NOTICE

TO: JASON OR ALICIA KNUTSON, 45935 292ND ST, CENTERVILLE, SD 57014

FROM: Ron Duvall, Natural Resources Engineer
for Garland Erbele, Chief Engineer
Water Rights Program

SUBJECT: Reporting Requirement for 2014 Irrigation Questionnaires

Our records indicate your 2014 Irrigation Questionnaires have not been submitted. The request for the Questionnaires was dated October 17, 2014. The Water Management Board has directed that owners of water permits who have not submitted the 2014 Irrigation Questionnaires be given notice of permit violation and a hearing to be held by the Board. The hearing is to determine if Permit No(s) 3948-3 should be amended to require the Questionnaire to be submitted each year and to determine action to be taken for violation of Water Permit No(s) 7441-3 qualification:

"This permit is approved subject to the Irrigation Water Use Questionnaire being submitted each year."

The hearing will be held at **10:00 am, March 4, 2015** in the Floyd Matthew Training Center, Joe Foss Building, 523 E Capitol Avenue, Pierre, SD, and will be conducted pursuant to SDCL 46-1-12, 46-1-14, 46-2-9, 46-2-11 and 46-2-17. These are contested case hearings pursuant to Chapter 1-26. According to SDCL 46-1-12, the Board may suspend a permit for a period of up to one year for the first violation of a permit qualification or up to three years for a second violation, or cancel a permit for a third violation. Following the hearing, the Water Management Board can:

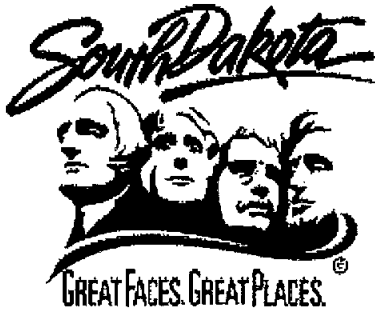
1. Suspend or cancel Permit No(s) 7441-3 in accordance with applicable provisions of SDCL 46-1-12;
2. Amend Permit No(s) 3948-3 to require the Irrigation Water Use Questionnaire to be submitted each year;
3. Postpone any action or take no action.

The hearing is an adversary proceeding. The permit owner has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised. Decisions of the Board may be appealed to the Circuit Court and the State Supreme Court as provided by law.

If the questionnaire(s) is (are) received in this office before the **March 4, 2015** hearing you will no longer be in violation of your permit and your name will be removed from the Board agenda. Enclosed are additional questionnaire(s) for your use. If you have questions or need assistance, please contact Genny McMath at (605) 773-3352 or email at genny.mcmath@state.sd.us. If you prefer, you can complete the questionnaire online at the following link: <http://denr.sd.gov/iq.aspx>

Note: Please contact the Water Rights Program, Joe Foss Building, 523 E Capitol, Pierre, SD (605-773-3352) to assure access to the meeting room for the handicapped or to obtain an interpreter for the hearing impaired.

3948-3



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
PMB 2020
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182

January 23, 2015

3948-3
7441-3

Jason & Alicia Knutson
45935 292nd St
Centerville SD 57014

Dear Mr. & Mrs. Knutson:

I am writing to acknowledge receipt of your 2014 irrigation questionnaires.

You may disregard the January 16, 2015, "Notice" concerning reporting requirements for Water Right No. 3948-3 and Water Permit No. 7441-3. The information was received in our office prior to the Water Management Board meeting and your name has been deleted from the agenda.

If you have any questions, please contact me.

Sincerely,

A handwritten signature in cursive script that reads "Genny McMath".

Genny McMath
Water Rights Program
(605) 773-3352
email: genny.mcmath@state.sd.us



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
PMB 2020
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

January 20, 2017

NOTICE

TO: JASON OR ALICIA KNUTSON, 45935 292ND ST, CENTERVILLE, SD 57014

FROM: Ron Duvall, Natural Resources Engineer
for Jeanne Goodman, Chief Engineer
Water Rights Program

SUBJECT: Reporting Requirement for 2016 Irrigation Questionnaires

Our records indicate your 2016 Irrigation Questionnaires have not been submitted. The request for the Questionnaires was dated October 21, 2016. The Water Management Board has directed that owners of water permits who have not submitted the 2016 Irrigation Questionnaires be given notice of permit violation and a hearing to be held by the Board. The hearing is to determine if Permit No(s) 3948-3 should be amended to require the Questionnaire to be submitted each year and to determine action to be taken for violation of Water Permit No(s) 7441-3 qualification:

"This permit is approved subject to the Irrigation Water Use Questionnaire being submitted each year."

The hearing will be held at **Wednesday, March 1, 2017 at 11:00 am (Central Time)** in the Floyd Matthew Training Center, Joe Foss Building, 523 E Capitol Avenue, Pierre, SD, and will be conducted pursuant to SDCL 46-1-12, 46-1-14, 46-2-9, 46-2-11 and 46-2-17. These are contested case hearings pursuant to Chapter 1-26. According to SDCL 46-1-12, the Board may suspend a permit for a period of up to one year for the first violation of a permit qualification or up to three years for a second violation, or cancel a permit for a third violation. Following the hearing, the Water Management Board can:

1. Suspend or cancel Permit No(s) 7441-3 in accordance with applicable provisions of SDCL 46-1-12;
2. Amend Permit No(s) 3948-3 to require the Irrigation Water Use Questionnaire to be submitted each year;
3. Postpone any action or take no action.

The hearing is an adversary proceeding. The permit owner has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised. Decisions of the Board may be appealed to the Circuit Court and the State Supreme Court as provided by law.

If the questionnaires are received in this office before the **March 1, 2017** hearing you will no longer be in violation of your permit and your name will be removed from the Board agenda. Enclosed are additional questionnaires for your use. If you have questions or need assistance, please contact Genny McMath at (605) 773-3352 or email at genny.mcmath@state.sd.us. If you prefer, you can complete the questionnaire online at the following link: <http://denr.sd.gov/iq.aspx>

Note: Please contact the Water Rights Program, Joe Foss Building, 523 E Capitol, Pierre, SD (605-773-3352) to assure access to the meeting room for the handicapped or to obtain an interpreter for the hearing impaired.



3948-3
DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182

denr.sd.gov

February 10, 2017

3948-3
7441-3

Jason & Alicia Knutson
45935 292nd St
Centerville SD 57014

Dear Mr. & Mrs. Knutson:

I am writing to acknowledge receipt of your 2016 irrigation questionnaires.

You may disregard the January 20, 2017, "Notice" concerning reporting requirements for Water Right No. 3948-3 and Water Permit No. 7441-3. The information was received in our office prior to the Water Management Board meeting and your name has been deleted from the agenda.

If you have any questions, please contact me.

Sincerely,

Genny McMath
Water Rights Program
(605) 773-3352
email: genny.mcmath@state.sd.us

3994-3, 4204-3, 5319-3, 117-3A, 2268-3, 2372-3, 2941-3
5352-3, 5425-3, 5886-3, 2950-3, 3328-3, 3409-3, 3507-3
5898-3, 6810-3, 6922-3, 3646-3, 3737-3, 3918-3, 3948-3
7002-3, 7191-3, 7384-3, 6754-3, 7128-3

Page 1 of 4

Water Rights Program File Documentation

Date: June 16, 2025

Counties: Clay and Turner

Re: Aquifer management unit redesignation for selected water rights/permits on Clay and Turner Counties

COMMENTS:

Review of a request to change diversion point for Water Permit No. 8790-3, authorized to withdraw water from the Upper Vermillion Missouri: South aquifer (UVM:S), determined the well they wished to use is authorized under authorized by Water Right No. 7384-3 Water Right No. 7384-3 does not currently have a management unit designated for withdrawal from the Upper Vermillion Missouri aquifer (Water Rights, 2025). In reviewing the best information currently available for aquifer and management unit naming conventions, the best aquifer and management unit designation for Water Right No. 7384-3 is the Southern management unit of the Upper Vermillion Missouri aquifer (UVM:S) as shown in Figure 1. Furthermore, there are an additional 25 other water rights/permits, see Table 1, which should have the UVM:S management unit assigned (Water Rights, 2025).

This addition of the management unit designation, to the Southern management unit of the Upper Vermillion Missouri aquifer, does not represent a physical change in the water source. It is an update to the naming convention to reflect the currently best available information for aquifer and management unit extents. This update to the aquifer management unit name does not authorize any increase in the amount of water appropriated by any of these water rights/permits, change in diversion rate, relocation of existing wells, completion of additional wells into the aquifer, or change of acres permitted for irrigation. Going forward, issuance of any pertinent documents will reflect the updated aquifer and management unit designation.

Table 1- Water rights/permits requiring an aquifer management unit designation to the Upper Vermillion Missouri: South (Water Rights, 2025)

Water Rights							
PERMIT NO	NAME	COUNTY	PRIORITY DATE	STATUS	USE	CFS	ACRES
117-3A	GLYNDON KNUTSON	CL	04/14/1955	LC	IRR	0.95	66
2268-3	WILLIAM KNUTSON	CL	08/07/1975	LC	IRR	2	206
2372-3	LARRY ERICKSON	CL	10/07/1975	LC	IRR	1.76	123
2941-3	RUSSELL D AUSTIN	TU	08/16/1976	LC	IRR	1.11	140
2950-3	TERRY & ALBERTA SURPRENANT	CL	08/13/1976	LC	IRR	1.57	110
3328-3	TOM AUSTIN	CL	11/12/1976	LC	IRR	1.33	121
3409-3	STEVEN R NULL	TU	12/07/1976	LC	IRR	1.88	136
3507-3	W JERALD HANSEN	TU	12/28/1976	LC	IRR	0.99	69
3646-3	STEVEN R NULL	TU	02/04/1977	LC	IRR	2	144
3737-3	WILLIAM M JENTER	TU	09/16/1976	LC	IRR	4.57	320
3918-3	JBS HANSEN FARMS	TU	04/18/1977	LC	IRR	2.66	295.3
3948-3	JASON KNUTSON	CL	04/19/1977	LC	IRR	1.88	135
3994-3	GLYNDON KNUTSON	CL	07/07/1956	LC	IRR	4.94	332
4204-3	CITY OF CENTERVILLE	TU	01/01/1900	LC	MUN	0.22	n/a
5319-3	LARRY ERICKSON	CL	04/13/1989	LC	IRR	1.89	132
5352-3	BILL & SCOTT HANSEN	TU	09/13/1989	LC	IRR	2.15	151
5425-3	JOHNKE LAND TRUST	TU	03/23/1990	LC	IRR	1.88	132
5886-3	TIM OSTREM	CL	09/28/1995	LC	IRR	1.78	134
5898-3	CITY OF CENTERVILLE	TU	01/09/1996	LC	MUN	0.89	n/a
6810-3	JESSE & TANYA VANDESTROET	CL	02/20/2007	LC	IRR	1.56	65
6922-3	JOHN SHUBECK	CL	12/13/2007	LC	IRR	1.78	122
7002-3	JESSE & TANYA VANDESTROET	CL	03/14/2008	LC	IRR	1.39	123
7191-3	ROGER BLAKE	CL	02/01/2008	LC	IRR	1.56	255
7384-3	NICHOLAS & COURTNEY BLAKE	CL	07/20/2012	LC	IRR	1.67	67
Water Permits							
PERMIT NO	NAME	COUNTY	PRIORITY DATE	STATUS	USE	CFS	ACRES
6754-3	JBS HANSEN FARMS	TU	09/05/2006	PE	IRR	0	35
7128-3	JOHN SHUBECK	TU	04/13/2009	PE	IRR	1.78	207

CL= Clay; TU= Turner; LC= Water Right, PE= Water Permit; IRR= Irrigation; MUN= Municipal

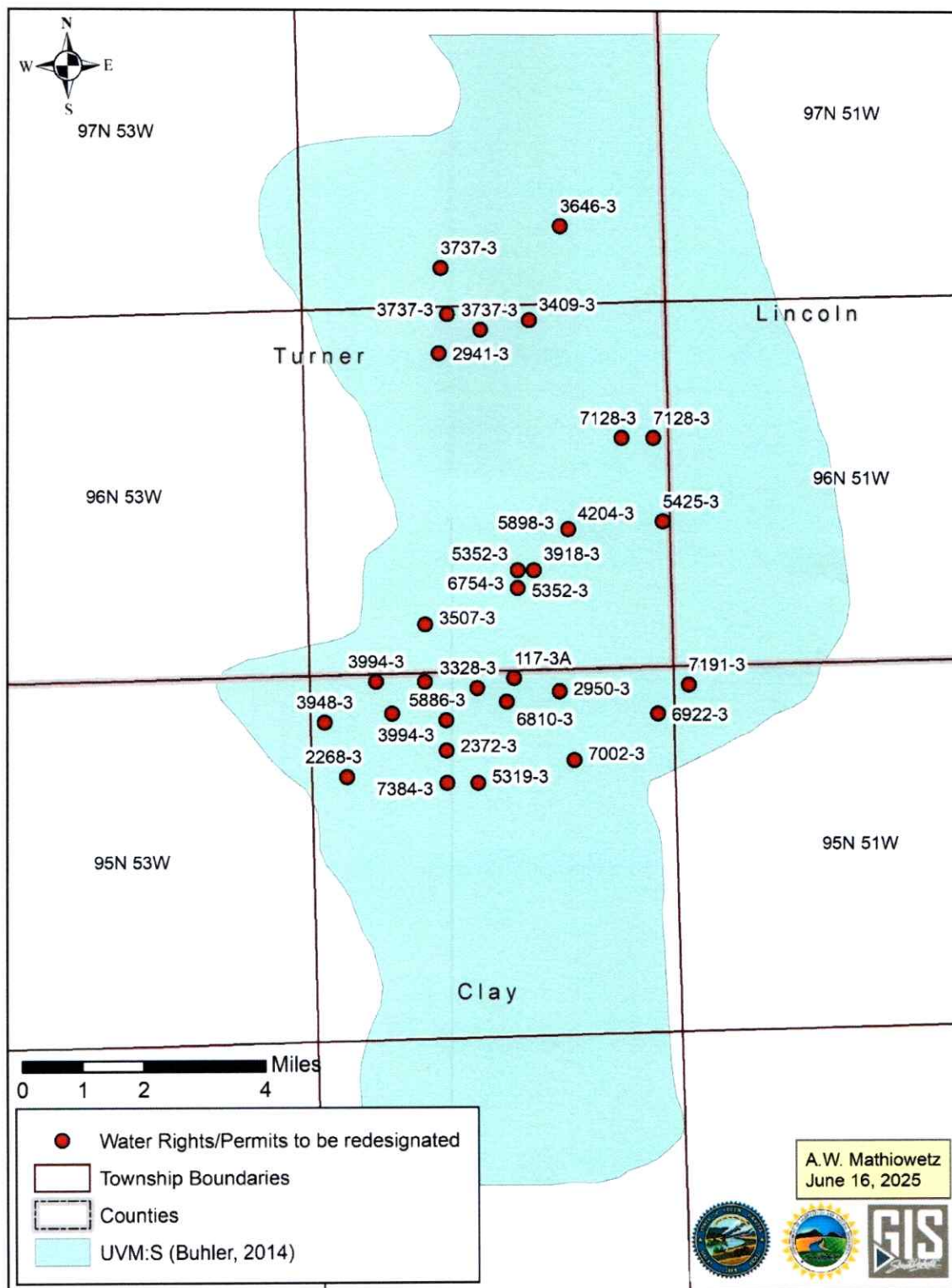


Figure 1- Map of approximate areal extent of the Upper Vermillion Missouri: South aquifer (Buhler, 2014) and water right/permits to be redesignated to include the South management unit designation (Water Rights, 2025)



Adam Mathiowetz
Natural Resources Engineer IV



Mark Mayer
Director of Office of Water

REFERENCES

Buhler, K. A. 2014. Report to the Chief Engineer on 21 Water Permit Applications from the Upper Vermillion Missouri Aquifer. SD DANR – Water Rights Program, Joe Foss Bldg. Pierre, SD.

Water Rights. 2025 Water Right/Permits Database. SD DANR-Water Rights Program. Pierre, South Dakota