

Considered: _____

WATER PERMIT NO. 5222-3

HAP No. same 425-2073

Name of Applicant McCook Country Club

Post Office Address Box 129, Salem, SD 57058

Amount of Water Claimed 82 ac-ft Source: 300 ac-ft Total Acres 30

Source of Water Supply runoff - 2 dams (80 ac-ft) & (2 ac-ft)

Water to be used for irrigation - golf course County McCook

About 1/2 mile SW of Salem, SD

PROOF OF PUBLICATION: Received _____ Not Received _____

APPLICATION: Approved 3/2/89 Subject to _____

F.F. & C.L. Adopted _____ Not Approved _____ Deferred _____

PRIORITY _____ Date Received July 15, 1988 Fee 150⁰⁰ Remarks _____

7/15/88

Corrected Application Received August 16, 1988 Period of Annual Use Apr 1 - Oct. 1

WATER QUALITY APPROVAL RECEIVED _____ (APPROVED) CONDITIONAL (Circle one)

WI-1 Description same as Application YES ☒ NO _____ REMARKS _____

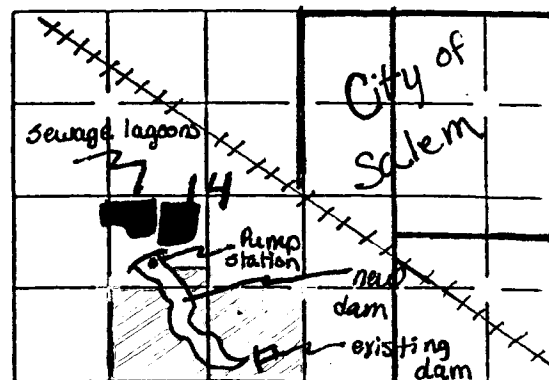
Diversion Point NE 1/4 SW 1/4, Sect. 14, T103N, R55W

Land to be Irrigated _____

NE 1/4 SW 1/4, Sect. 14, T103N, R55W (4 acres)

SE 1/4 SW 1/4, Sect. 14, T103N, R55W (13 acres)

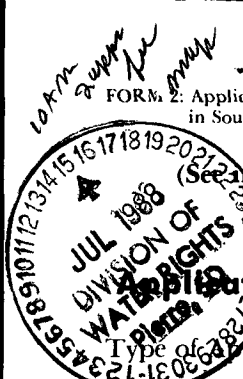
SW 1/4 SE 1/4, Sect. 14, T103N, R55W (13 acres)



Well Log: Driller NA Licensed YES _____ NO _____

Depth of Well _____ REMARKS _____

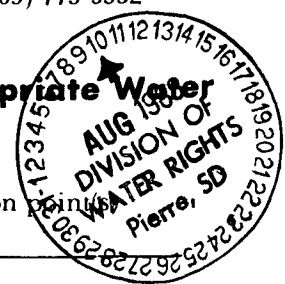
Type of Map aerial photo PREPARED BY Thomas G. Quinn Reviewed and the Number assigned on August 16, 1988 By Susan A. Bowar



FORM 2: Application for irrigation (type or print)
in South Dakota

Mail to: Water Rights Div.
DWNR, Foss Bldg.
Pierre, SD 57501
(605) 773-3352

No. 5222-3 Hydrologic Unit 10170102
Basin Vernillion River
Newspaper Salem Special, 135 So. Main, 57058 (Wed)



Application For Soil/Water Compatibility Permit and Permit To Appropriate Water

- Type of application: ☒ New ☐ Vested Right ☐ Amend Permit No. _____
☐ Change Acreage ☐ Change diversion point(s) ☐ Add diversion point(s)
☐ Add Acreage ☐ Increase diversion rate ☐ Other _____
1. Name of Applicant McCook Country Club Phone No. 425-2073
Post Office Address Box 129 Salem State S. D. 57058
(Street, RR or Box) (City) Zip Code
2. Amount of water claimed (c.f.s.) 0.67 cfs Total acres irrigated 30
3. Source of Water supply Run-off water from City of Salem 2 dams
4. Location of point of diversion NE 1/4 SW 1/4, Section 14, T103N, R55W (80 acre-feet storage)
SW 1/4 SE 1/4, Section 14, T103N, R55W (2 acre-feet storage)
County McCook
5. Counties where water will be used McCook
6. Annual period during which water is to be used April 1 to October 1
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.
<u>SW 1/4 - SW 1/4 - 14-103-55</u>	<u>30</u>
<u>SW 1/4 SE 1/4 - 14-103-55</u>	

Land Description	No. Acres Irr.
<u>NE 1/4 SW 1/4 Sec 14-T103N-R55W</u>	<u>4</u>
<u>SE 1/4 SW 1/4 Sec 14-T103N-R55W</u>	<u>13</u>
<u>SW 1/4 SE 1/4 Sec 14-T103N-R55W</u>	<u>13</u>

Attach sheet if more space is needed

8. Type of Irrigation: Gravity: _____ Towline: _____ Center Pivot: _____ Gun: _____ Other: _____ (Specify) Pop-up
9. Crops to be Irrigated: Grass land - Fairways for golf course
10. Give a description of proposed project. (Attach sheet if more-space is needed)

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 McCook)^{ss}

I, McCook Country Club, 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 McCook Country Club
Ed Tran

Subscribed and sworn to before me this 14 day of July 1988

Notary Public

**SOUTH DAKOTA
WATER PERMIT No. 5222-3 FOR IRRIGATION**

Date of first receipt of application July 15, 1988.

Date Soil/Water Compatibility Permit received August 16, 1988.

Date of return of applicant for correction, amendments or changes required July 22, 1988.

Date of receipt of corrected application August 10, 1988.

The Water Management Board approved Water Permit Application No. 5222-3 on March 2, 1989 for the McCook Country Club, P.O. Box 129, Salem, SD 57058 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. 5222-3 authorizes impoundment of 80 acre-feet and 2 acre-feet of water in 2 storage dams located in the NE1/4 SW1/4 and in the SW1/4 SE1/4 Section 14-T103N-R55W. Water is to be diverted from the dams at a rate of 0.67 cfs and will be used to irrigate 30 acres of the golf course located in the E1/2 SW1/4, SW1/4 SE1/4 Section 14-T103N-R55W.
2. The amount of the appropriation may not exceed 2 acre feet per acre per year or one-seventieth (1/70) cubic feet of water per second 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 1.
3. The date from which applicant may claim right is July 15, 1988.
4. One-fifth of the construction is completed.
5. All construction is completed.
6. Water is put to beneficial.
7. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. Approval of this Permit authorizes storage of up to 82 acre-feet storage annually.
2. Low flows as needed for downstream domestic use, including livestock water and prior water rights must be by-passed.
3. This permit is approved subject to the irrigation water use questionnaire being submitted each year.
4. That the statutory limit of 1.0 cubic foot per second per 70 acres may not be exceeded when pumping pursuant to Permit No. 5222-3, unless the time of each water application is reduced to a corresponding equivalent time period and the total amount of water applied does not exceed 24 inches per year.

WATER MANAGEMENT BOARD

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

JUN 13 1989

(date)

Supplemental Information

(type or print in ink)

1. Well Information - Proposed construction

- a) Drill Hole Diameter _____ Depth _____
- b) Casing Type _____ Diameter _____ Thickness _____
- c) Screen Type _____ Diameter _____ Thickness _____
- d) Gravel Pack Thickness _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material _____
- f) Depth to Water (ground surface to water level) _____
- g) Distance to nearest existing domestic well:
- On applicants property _____ On property owned by others _____

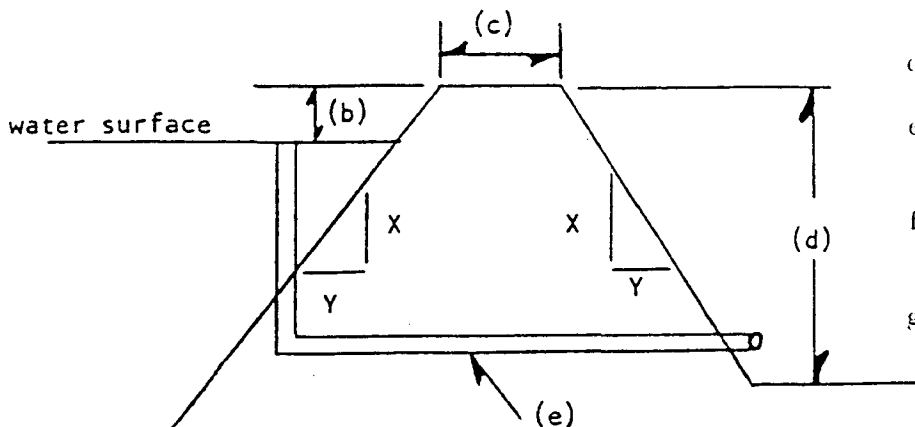
2. Dugout Information Estimates

- 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 4'
- c) Crest Width 16'
- Crest Length 440'
- d) Height 15'
- e) Primary Outlet Capacity _____
If Pipe, diameter 36"
- f) Secondary Spillway Capacity _____
Spillway width 70'
- g) X & Y Slope
Upstream 3:1
Downstream 3:1

Surface Area of Impoundment 13.8Ac.

Storage 100 acre feet

Drainage area above dam 1300 Ac.

Signature of Applicant

Supplemental Information

(type or print in ink)

1. Well Information - Proposed construction

- a) Drill Hole Diameter _____ Depth _____
- b) Casing Type _____ Diameter _____ Thickness _____
- c) Screen Type _____ Diameter _____ Thickness _____
- d) Gravel Pack Thickness _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material _____
- f) Depth to Water (ground surface to water level) _____
- g) Distance to nearest existing domestic well:
- On applicants property _____ On property owned by others _____

2. Dugout Information Estimates

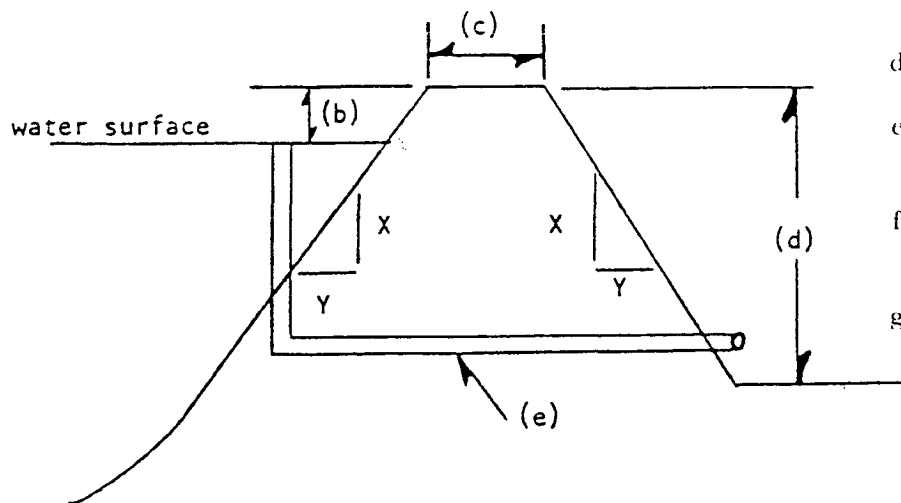
- a) Surface Dimensions _____ Depth _____
- b) Depth to water (ground surface to water level) _____

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

- | | New Dam | Old Dam (existing) |
|--------------------------------|---------|--------------------|
| b) Freeboard | 4' | 3' |
| c) Crest Width | 16' | 6' |
| Crest Length | 400' | 42' |
| d) Height | 15' | 6' |
| e) Primary Outlet Capacity | | |
| If Pipe, diameter | 36" | 8" |
| f) Secondary Spillway Capacity | | |
| Spillway width | 60' | 20' |
| g) X & Y Slope | | |
| Upstream | 3:1 | 2:1 |
| Downstream | 3:1 | 2:1 |



Surface Area of Impoundment 12.0 Ac. 0.3 Ac.

Storage 80 acre feet 2 Ac.Ft.

Drainage area above dam 1300 Ac. 1300 Ac.

Signature of Applicant _____

Item 5.

The hazard classification of the proposed irrigation dam is Category 3. There is no potential for loss of life, and economic loss potential is minimal.

The size classification of the proposed irrigation dam is Small. The dam will store approximately 80 acre feet. The height of the dam is 15 feet.

Thomas G. Quinn
District Conservationist
SCS, Salem, S.D.

Item 1-2-4

NOT TO SCALE



RECEIPT

Division of Water Rights

South Dakota Department of Water and Natural Resources

411317

Pierre, July 18, 1988

RECEIVED OF McCook Country Club, PO Box 129, Salem, SD 57058

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

Fee for Application for Permit No. <u>5222-3</u> to Appropriate Water, to construct works and to put water to beneficial use	150	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	150 00

By

Chief Engineer

JOHN HATCH

ms

TO:

Water Right Division

FROM:

SALEM LUMBER COMPANY

120 North Dakota

SALEM, SOUTH DAKOTA 57058

Phone 425-2221

SUBJECT:

McCook C. Club

DATE

7-14

No water sample available until Dam is
Built

any questions please call

REPLY TO

DATE

BY

Ed Krantz



ORIGINATOR KEEP PART 2 FOR FILE COPY

BY



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

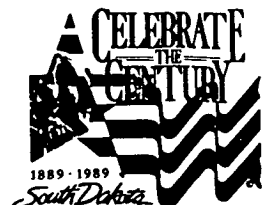
July 22, 1988

Ed Kranz
McCook Country Club
Box 129
Salem SD 57078

Dear Mr. Kranz:

This letter is in response to the water permit application submitted by McCook Country Club on July 15, 1988. The following information is needed to complete the application:

- 1) The area to be irrigated needs to be outlined on the enclosed aerial photo and the proposed pumping point needs to be shown on the map.
- 2) The acreage to be irrigated needs to be described by the number of acres in each 40 acre subdivision (NE1/4SW1/4, SE1/4SW1/4 and SW1/4SE1/4) as specified in question No. 7 on the enclosed permit application.
- 3) The maximum pumping capacity also needs to be specified in question No. 2 for irrigation of the 30 acres. Pursuant to SDCL 46-5-6, the pumping capacity for 30 acres can not exceed 0.42 cubic feet of water per second (192 gallons per minute). However, the Water Management Board can consider allowing a greater diversion rate if your method of irrigation requires exceeding 192 gpm.
- 4) Currently, the country club does not have any existing water rights for irrigation of the course. The country club should also include any existing water sources used for irrigation of the golf course and/or supplying the club house, unless water is being supplied by the City of Salem. For example, the existing dam/dugout in the SW1/4SE1/4 section 14-T103N-R55W also needs to be included on this application. Enclosed is another Form 2A for the existing dam and the dam location needs to be marked on the enclosed aerial photo.
- 5) A written preliminary risk assessment of the downstream hazard potential needs to be provided to aid in determining the hazard classification of the dam (see enclosed Safety of Dams Rules Section 74:02:08:05). The hazard classification of the dam (Category 1, 2 or 3) is needed to determine what provisions of the Safety of Dams Rules will apply to this proposed dam. The SCS office or some other consultant can assist you with the risk assessment.



July 22, 1988

Ed Kranz

Page 2

The Water Management Board cannot consider a water permit application until the application is complete. Complete the enclosed application, Form 2A, map and a preliminary risk assessment to begin processing of the application. Plans and specifications for the proposed dam will also need to be submitted prior to the actual construction of the dam as described in Safety of Dams Rules Section 74:02:08:09.

Please contact me if you have any questions.

Sincerely,

A handwritten signature in cursive script that reads "Ron Duvall".

Ron Duvall
Natural Resources Engineer
605 773-3352

enc.

TO: *Water & Natural Resources*

FROM:

SALEM LUMBER COMPANY

120 North Dakota

SALEM, SOUTH DAKOTA 57858

SUBJECT:

ITEM No 9

DATE

IRRIGATION Demand 230 Gpm

REPLY TO

DATE

BY

Ed Krang



ORIGINATOR KEEP PART 2 FOR FILE COPY

BY



**STATE CONSERVATION COMMISSION
SUPPORTING INFORMATION
FOR APPROPRIATION OF GROUND WATER IN ACCORDANCE
WITH SDCL 46-6-3 AS AMENDED
(This Form Required for Proposed Well Irrigation Only)**

Irrigation System: _____

Water Quality: _____

Soils Capability: _____

Approved: [Signature]

Disapproved: _____

Approval does not imply that this project can be carried out without regard to the relative merits of the project. Individual responsibility for determining the relative merits of the project remains with the applicant.

Approved only for sample
76-1718

NAME: McCook Country ClubADDRESS: Salem, South DakotaCOUNTY: McCookLEGAL DESCRIPTION

1. WELL LOCATION: SOUTHEAST $\frac{1}{4}$ OF SOUTHEAST $\frac{1}{4}$ OF SECTION 14, TWP 103, RANGE 55
MCCOOK COUNTY, SOUTH DAKOTA
2. AREA TO BE IRRIGATED: See Exhibit A

TYPE OF IRRIGATION

3. GRAVITY SPRINKLER (Indicate Type): SPRINKLER
4. CROPS TO BE IRRIGATED: Recreational Area (Golf Course)

LAND CAPABILITY FOR IRRIGATION

5. PERCENTAGE OF SLOPE: See Exhibit B
6. PHYSICAL SOILS CLASSIFICATION FOR IRRIGATION: See Exhibit B

WATER QUALITY (TO BE COMPLETED BY COMMISSION)

7. SAMPLE NO.: _____

8. SALINITY: LC9. SODIUM: AKA(76-1718)B(76-1718)2000 μ mho/cm4005 μ mho/cm3.71 (low)7.50 (medium)borderline

I do hereby certify that a chemical analysis of the ground water to be acquired for irrigation from South Dakota State University and:

the land capability for irrigation information has been acquired from
Lee Stroup, ASCS Office, Salem, South Dakota 57058.

and:

that the legal description for the location of the well and land to be irrigated is true and correct.

Jerome F. Hesthoff

Subscribed and sworn before me this

27th day of Oct 1976.

William A. Matheson

Notary Public

(Title)

10-20-80

ORIGINAL RECORD AND MAP
LAW 1-27-4. IT IS
AND ON RECORD WITH
RECORDS, RECORDS

EXHIBIT A

BLOCKS TEN (10), ELEVEN (11), TWELVE (12), THIRTEEN (13), FOURTEEN (14) AND FIFTEEN (15), EXCEPTING THE SOUTH 100 FEET OF THE NORTH 127 FEET OF THE EAST 100 FEET OF SAID BLOCK FIFTEEN (15), ALL IN SOUTH SALEM, SALEM, MCCOOK COUNTY, SOUTH DAKOTA; ALSO THE FOLLOWING DESCRIBED REAL PROPERTY: COMMENCING AT THE SOUTHWEST CORNER OF THE SOUTHEAST QUARTER ($SE\frac{1}{4}$) OF SECTION FOURTEEN (14), TOWNSHIP ONE HUNDRED THREE (103) NORTH, RANGE FIFTY-FIVE (55), WEST OF THE 5TH P.M., THENCE EAST 1320 FEET, THENCE NORTH 330 FEET, THENCE WEST 660 FEET, THENCE NORTH 660 FEET, THENCE WEST 330 FEET, THENCE NORTH 330 FEET, THENCE WEST 330 FEET, THENCE SOUTH 1320 FEET TO THE PLACE OF BEGINNING, TOGETHER WITH THE VACATED STREETS AND AVENUES ADJOINING ALL OF THE ABOVE DESCRIBED REAL PROPERTY, EXCEPTING LAND CONVEYED FOR HIGHWAY PURPOSES, SAID PROPERTY BEING LOCATED WITHIN THE CORPORATE LIMITS OF THE CITY OF SALEM, MCCOOK COUNTY, SOUTH DAKOTA.

THAT PART OF THE EAST 1,100 FEET OF THE EAST HALF OF THE SOUTHWEST QUARTER ($E\frac{1}{2}SW\frac{1}{4}$) OF SECTION 14, TOWNSHIP 103 NORTH, RANGE 55, WEST OF THE 5TH P.M., MCCOOK COUNTY, SOUTH DAKOTA, LYING SOUTH OF THE SOUTH LINE OF LOT 2 OF THE $NE\frac{1}{4}SW\frac{1}{4}$ AND LOT 4S OF $N\frac{1}{2}$ OF $SW\frac{1}{4}$ OF SAID SECTION 14, CONTAINING 44.5 ACRES, MORE OR LESS, EXCEPT LOT H-1, SUBJECT TO EASEMENTS OF RECORD.

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

Submitted by: McCook Country Club
 Address: Salem, SD 57058

Date Rec'd October 29, 1976
 Sample No. 76-1718
 Identification A

WATER ANALYSIS

Calcium (Ca)	212	ppm*	10.60	me/l**
Magnesium (Mg)	54	ppm	4.43	me/l
Sodium (Na)	234	ppm	10.18	me/l
Potassium (K)	18	ppm	0.47	me/l
Sulfate (SO ₄)	844	ppm	17.56	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	12	ppm	0.34	me/l
Bicarbonate (HCO ₃)	506	ppm	8.30	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)	415	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	2004	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	3.71			
Sodium	39.64	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.31			

*ppm=parts per million

**me/l=millequivalents per liter

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

COMMENTS: Total cations 25.68 me/l
 Total anions 26.20 me/l



By: Shirley Mitten

Service Performed

Amount Due

\$8.00 PAID

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

Submitted by: McCook Country Club
 Address: Salem, SD 57058

Date Rec'd: October 29, 1976
 Sample No. 76-1719
 Identification B

WATER ANALYSIS

Calcium (Ca)	286	ppm*	14.30	me/l**
Magnesium (Mg)	139	ppm	11.40	me/l
Sodium (Na)	618	ppm	26.88	me/l
Potassium (K)	36	ppm	0.94	me/l
Sulfate (SO ₄)	1750	ppm	36.40	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	440	ppm	12.32	me/l
Bicarbonate (HCO ₃)	634	ppm	10.40	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)	520	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	4008	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	7.50			
Sodium	50.22	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.62			
Others:				

*ppm=parts per million
 **me/l=millequivalents per liter
 ***g-p-g=grains per gallon

COMMENTS: Total cations 53.52 me/l
 Total anions 59.12 me/l



By: Shirley Mitten

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. 76-1719

Amount Enclosed \$



November 12, 1976

McCook Country Club
Salem, SD 57058

Dear Sir:

Enclosed you will find the reports of analysis on your water samples A and B submitted here recently. Also enclosed is a copy of AES pamphlet #13 with the quality of these waters designated approximately for irrigation use by means of the red cross in the chart on the outside back cover. Sample B is absolutely unsuited and should not be used for grasses such as those on a golf course. Sample A is a high salt water that could be used if it is not used frequently and in small amounts. This is not very well suited to irrigation or short grasses such as bluegrass and bentgrass, and probably the water should never be used at all on bentgrass. If you do use it, you should use it only 2 or 3 times a season. The blue grass and other grasses in the fairways probably could stand this water to be used 5 or 6 times a year but it should never be used more than 6 times. Every season you should irrigate thoroughly in the very later fall, just before freeze-up, in order to encourage maximum possible natural leaching as a result of winter and spring precipitation. Otherwise, the salts will eventually kill the grasses even in the fairway. This is not a good set-up but if it is the best water you can get hold of, I guess this is what you have to use.

A copy of this letter, and a copy of the analyses, and application materials are being sent to the State Conservation Commission for their action.

Sincerely yours,

L. O. Fine
L. O. Fine
Water Quality Lab

LOF:ckb
Enclosures
cc: State Conservation Commission

DATE MICROFILMED

CAMERA OPERATION



I2
3A
0-3

Bridgewater Crossplain complex (0 to 3 percent slopes). These deep, somewhat poorly and moderately drained, nearly level soils are on uplands that are broken by many small depressions and narrow swales.
Range Site: Silty Pasture Gr. F Windbreak Gr. 3 Bridgewater Crossplain

Ile2
5B
2-6

Deep, loamy, well drained soils on gently undulating (2 to 6%) slopes. They have a moderate water erosion hazard.
Range Site: Silty Pasture Gr. F Windbreak Gr. 3 Clarvo Loam

Range Sites:

SILTY: This site includes deep or moderately deep soils that have a fine sandy loam to silty clay loam surface and subsoil. The principal plants in the original vegetation were: big and little bluestem, green needlegrass, western wheatgrass, and needleandthread.

Conversation or File Documentation

NAME OF PERSON OR FILE: McCook Country ClubADDRESS: Box 129 COUNTY McCookDATE: Sept 21, 1988 TELEPHONE _____RE: Spoke to Ed Kranz regarding the pumping capacity

COMMENTS:

Ed Kranz indicated that the golf course uses a 30 hp motor & pump to divert 300 gpm to irrigate the golf course. Mr. Kranz indicated that 12 sprinklers are used at one time and the irrigation system completes one cycle in 8 hours. Water is pumped at 300 gpm to allow irrigation of the course during off peak hours to reduce electrical costs as well as to avoid golfers. Mr. Kranz stated the additional pumping capacity above 1 cfs / 70 acres is more cost efficient.

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.

Report on Application No. 5222-3
McCook Country Club
October 10, 1988

Background

Application No. 5222-3, McCook Country Club requests an appropriation of water to store 82 acre-feet of water in an existing (old) dam and a recently constructed (new) dam. The new dam, storage capacity 80 acre-feet, is located in the NE1/4SW1/4 of section 14, T103N-R55W on a tributary to the West Fork of the Vermillion River. The old dam, storage capacity of 2 acre-feet, is located in the SW1/4SE1/4 of section 14, T103N-R55W. The source of water for both dams is the runoff water from the City of Salem.

The water will be used to irrigate 30 acres of land including fairways and greens of a golf course. The land is located in the E1/2SW1/4 and SW1/4SE1/4 of section 14, T103N-R55W, in McCook County. The requested diversion rate from the dams is 0.67 cubic feet of water per second.

Discussion

The water will be stored in two dams. The new dam is 15 feet high. According to Tom Quinn, District Conservationist, "The Hazard classification of this irrigation dam is Category 3. There is no potential for loss of life, and economic loss potential is minimal. The size classification of the new irrigation dam is small". The Division reviewed the spillway capacity to determine if the spillway was capable of passing the 25 year runoff event as required in the Safety of Dams Rules for this size dam. The spillway capacity of the proposed dam is greater than the 25 year event.

Pursuant to SDCL 46-5-6, the water right must be limited to 0.43 cubic feet per second (192 gallons per minute) for irrigation of 30 acres. Ron Duvall discussed the diversion rate with Ed Kranz, McCook Country Club. Mr. Kranz stated that allowing a pumping rate of 300 gallons per minute (0.67 cfs) would be more cost efficient. Since the diversion is from storage dams, diverting more than the 1 cfs for each 70 acres would not cause any problems. An equivalent rate can be accomplished by limiting the hours per day that water is diverted. Pumping 15.4 hours per day at 0.67 cfs would divert the same volume of water as pumping 0.43 cfs for 24 hours per day.

Conclusions and Recommendations

1. The new storage dam is a small category 3 dam. In case of the failure of the dam, there would be no potential for loss of life, and economic loss potential would be minimal.

2. Preliminary data on the spillway capacity of the new dam indicates that it will meet the requirements of the Safety of Dams Rules.
3. No water rights exist between the location of the proposed dam and the West Fork Vermillion River.
4. Approval of the Application No. 5222-3 is in the public interest and constitutes the beneficial use of the waters of the state.
5. The requested rate of 0.67 cfs exceeds the 1 cfs for 70 acres limitation in the law. This rate can be approved by restricting the hours pumped per day.
6. Application No. 5222-3 should be approved for 82 acre-feet of storage in two dams. The diversion rate of 0.67 cubic feet per second not to exceed 15.4 hours per day of pumping could be authorized. The low flow bypass for domestic use and irrigation questionnaire qualifications should be included.
7. Plans and specifications for the new dam need to be submitted to the Division of Water Rights for review and approval.

NR Ahadi

Rassool Ahadi
Natural Resources Engineer

$$Q_{25} = 83.4 A^{0.60} S^{0.44} S_i^{-0.72}$$

$$A = 1320 A_c = 2.03 \text{ mi.}^2$$

$$S = 15' / \text{mile}$$

$$S_i = 3.33$$

$$Q_{25} = 83.4 (2.03)^{0.60} 15^{0.44} 3.33^{-0.72}$$

$$Q_{25} = 83.4 (1.53) (3.29) (0.42)$$

$$Q_{25} = \underline{\underline{176.56 \text{ cfs}}} \quad 25 \text{ year event}$$

36" Primary from SCS Manual

$$Q = a \sqrt{\frac{2.9H}{1 + K_m + K_p L}}$$

$$K_m = 1$$

$$K_p = .0267$$

$$a = 7.07 \text{ ft}^2$$

$$L = 106'$$

$$Q = 7.07 \sqrt{\frac{2(32.2)(15)}{1 + 1 + .0267(106)}}$$

$$Q = \underline{\underline{100 \text{ cfs}}}$$

Secondary Spillway

60' wide

Assume: 1:2 side slopes
.002 channel slope

$$n = 0.035$$

$$H = 3'$$

$$Q = \frac{1.49}{.035} A R^{2/3} S^{1/2}$$

$$A = 198$$

$$w_p = 73.42$$

$$R = A/w_p = 2.70$$

$$Q = \frac{1.49}{.035} (198) (2.7)^{2/3} (.002)^{1/2}$$

$$Q = \underline{\underline{654 \text{ cfs}}}$$

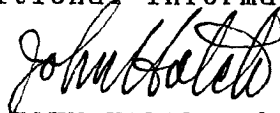
McCook Country Club Dam Spillway Capacity
is greater than 25 year event

RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 5222-3, McCook Country Club

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Division, Department of Water and Natural Resources concerning Water Permit Application No. 5222-3, McCook Country Club, PO Box 129, Salem SD.

The Chief Engineer is recommending DEFERRAL of Application No. 5222-3 until plans and specifications for the new as built 80 acre-feet storage dam are submitted for review pursuant to Water Management Board Rules Chapter 74:02:08, Safety of Dams and until the plans and specifications are approved.

See the attached report for additional information.

A handwritten signature in cursive script, appearing to read "John Hatch".

JOHN HATCH, Chief Engineer
October 11, 1988



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

Water Rights Division
(605) 773-3352

October 27, 1988

NOTE:

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

Ed Kranz
McCook Country Club
Box 129
Salem, South Dakota 57058

Dear Mr. Kranz:

Your Application No. 5222-3 for a permit to appropriate water for
irrigation-golf course use, has been examined and found to
comply with the South Dakota Water Laws and applicable rules. A notice of
your intent to appropriate water has been sent to the Publisher of the

Salem Special printed at Salem

South Dakota. For your information, a copy of this notice, the recommendation
of the Chief Engineer and a report on the application are enclosed. Please
review this notice prior to publication and notify this office, if you have
any corrections or questions.

BE SURE TO CONTACT THE ABOVE NEWSPAPER IMMEDIATELY TO AUTHORIZE PUBLICATION
OF YOUR NOTICE OF INTENT TO APPROPRIATE WATER 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 at least twenty days before the board
meeting. We must receive Proof of Publication before the application can be
considered by the Water Management Board.

Sincerely,

RON DUVAL
Natural Resources Engineer

enclosures



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

October 27, 1988

Salem Special
135 S. Main
Salem, South Dakota 57058

Dear Sir:

Enclosed is a Notice of Hearing on Application No. 5222-3 to be published twice. Please publish the first notice on or before November 2, 1988 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 McCook Country Club, Box 129, Salem, SD 57058.

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. The permit application cannot be considered by the Water Management Board until proof of publication has been received.

Sincerely,

Ron Duvall
Natural Resources Engineer
605 773-3352

enclosures

CUT HERE

FIRST TRANSMITTAL NOTICE
No. _____

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

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 _____

Instruction to Newspaper - Publish first Notice on or before November 2, 1988 with 2nd publication 7 days later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 5222-3 to Appropriate Water

Notice is given that the McCook Country Club, PO Box 129, Salem SD 57058 has filed an application for a water permit to impound 80 acre-feet and 2 acre-feet of water in 2 storage dams located in the NE 1/4 SW 1/4 and in the SW 1/4 SE 1/4 Section 14, T103N, R55W. Water is to be diverted from the dams at a rate of 0.67 cubic feet of water per second to irrigate 30 acres of the golf course. The acreage to be irrigated is located in the E 1/2 SW 1/4, SW 1/4 SE 1/4 Section 14, T103N, R55W.

Pursuant to SDCL 46-2A-2, the Chief Engineer of the Water Rights Division recommends DEFERRAL of Application No. 5222-3 until plans and specifications for the new as built 80 acre feet storage dam are submitted for review pursuant to Water Management Board Rules Chapter 74:02:08, Safety of Dams and until the plans and specifications are approved. This application will be considered by the Water Management Board in Room Dakota A, Howard Johnson, 3300 West Russell, Sioux Falls SD on December 7, 1988 at 10:00 am. 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.

Although the Chief Engineer is recommending DEFERRAL, any interested person that intends to participate in the hearing before the Board by presenting evidence or cross-examining witnesses according to SDCL 1-26, must file a written petition with BOTH the applicant and Chief Engineer by November 25, 1988. This application will probably not be readvertised. Parties will be given personal notice of any future hearings. The Chief Engineer's address is "Water Rights Division, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)". 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 legal counsel if legal counsel is obtained. The applicant need not file a petition. Contact the Water Rights Division to request information on this application or to assure access to the hearing by the handicapped.

This hearing is an adversary proceeding. Any person filing a petition and/or the applicant have the right to be represented by a lawyer. 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. The time of the hearing will also be automatically delayed for at least twenty days upon written request to the Chief Engineer from the applicant or a petitioner. The request for a delay must be received by November 25, 1988.

This application is made pursuant to SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-15; 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; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15.

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County McCook) ss.

I, Jerry Hallingsworth hereby
certify that the annexed printed copy of Notice of Intent to Appropriate
Water was taken from the Salem Special

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

November 3, 1988

November 10, 1988

Jerry Hallingsworth
(Signature)

(Title)

(Date Signed)



Cost of Printing: \$39

⁴⁶ Supreme Court as provided by law. The
time of the hearing will also be
automatically delayed for at least twenty
days upon written request to the Chief
Engineer from the applicant or a
petitioner. The request for a delay must
be received by November 25, 1988.

This application is made pursuant to
SDCL 46-1-1 thru 46-1-9, 46-1-12 thru
46-1-15; 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;
and Board Rules ARSD 74:02:01:01 thru
74:02:01:15.

Public Notice

NOTICE OF HEARING
on Application No. 5222-3
to Appropriate Water

Notice is given that the McCook
Country Club, P.O. Box 129, Salem,
S.D., 57058 has filed an application for
a water permit to impound 80 acre-feet
and 2 acre-feet of water in 2 storage
dams located in the NE 1/4 SW 1/4 and
in the SW 1/4 SE 1/4 Section 14,
T103N, R55W. Water is to be diverted
from the dams at a rate of 0.67 cubic
feet of water per second to irrigate 30
acres of the golf course. The acreage to
be irrigated is located in the E1/2 SW1/4,
SW1/4 SE1/4 Section 14, T103N, R55W.

Pursuant to SDCL 46-2A-2, the Chief
Engineer of the Water Rights Division
recommends DEFERRAL of Application
No. 5222-3 until plans and specifications
for the new as built 80 acre feet storage
dam are submitted for review pursuant to
Water Management Board Rules Chapter
74:02:08, Safety of Dams and until the
plans and specifications are approved.
This application will be considered by
the Water Management Board in Room
Dakota A, Howard Johnson, 3300 West
Russell, Sioux Falls, S.D. on December
7, 1988 at 10:00 a.m. 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.

Although the Chief Engineer is
recommending DEFERRAL, any
interested person that intends to
participate in the hearing before the
Board by presenting evidence or cross-
examining witnesses according to SDCL
1-26, must file a written petition with
BOTH the applicant and Chief Engineer
by November 25, 1988. This application
will probably not be readvertised. Parties
will be given personal notice of any
future hearings. The Chief Engineer's
address is "Water Rights Division, Foss
Building, 523 E. Capitol, Pierre, S.D.,
57501 (605-773-3352)". 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 legal counsel if legal
counsel is obtained. The applicant need
not file a petition. Contact the Water
Rights Division to request information on
this application or to assure access to the
hearing by the handicapped.

This hearing is an adversary
proceeding. Any person filing a petition
and/or the applicant have the right to be
represented by a lawyer. 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



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

December 15, 1988

NOTICE

TO: Ed Kranz
McCook Country Club
Box 129
Salem SD 57078

FROM: John Hatch, Chief Engineer
Water Rights Division
605 773-3352

SUBJECT: Deferral of Water Permit Application No. 5222-3, McCook
Country Club

On December 8, 1988, the Water Management Board deferred action on Water Permit Application No. 5222-3 pending receipt and approval of plans and specifications for the 80 acre-feet storage dam. Plans and specifications for the dam are required pursuant to Safety of Dams Rules Chapter 74:02:08. Application No. 5222-3 will be rescheduled for consideration by the Board after receipt and approval of the plans and specifications.

The dam is not to be used to store water or be used for irrigating the golf course until the water permit application is approved pursuant to SDCL 46-1-15 and 46-5-10. The next regularly scheduled Board meeting is to be held on March 1 and 2, 1989. A complete set of plans and specifications will need to be received by February 15, 1989 in order to reschedule Application No. 5222-3 for the March Board meeting. Notice will be given of the hearing time and place.

cc: Larry Donovan, Assistant Attorney General



CERTIFICATION

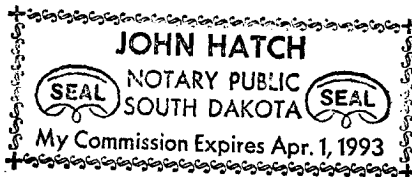
I hereby certify that on December 15, 1988 I have personally deposited with the U.S. Mail postage prepaid envelopes containing a Notice on Deferral of Water Permit Application No. 5222-3, McCook Country Club addressed as follows:

Ed Kranz
McCook Country Club
Box 129
Salem SD 57078

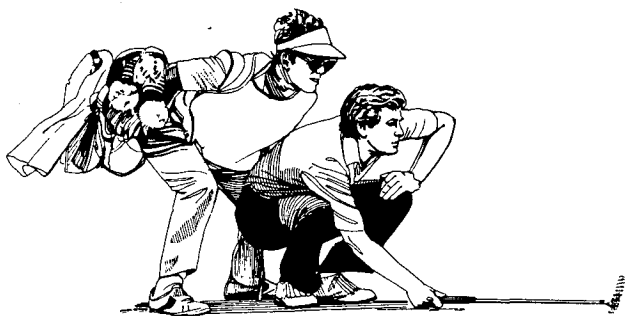
Karen Schlaak
KAREN SCHLAACK
Senior Secretary

STATE OF SOUTH DAKOTA)
) SS
COUNTY OF HUGHES)

Sworn to, before me, this 16th day of December, 1988.



John Hatch
Notary Public



McCook Country Club

P.O. Box 129

Salem, South Dakota 57058

January 28, 1989



S. D. Dept. of Water & Natural Resources
Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

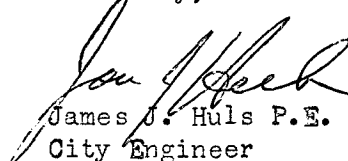
Gentlemen:

Enclosed are enclosures number 1 - 7 containing information requested by your office. This information has been compiled by personnel of the Soil Conservation Service and other knowledgeable persons.

I personally observed the construction of this dam and believe that the enclosed drawings and sketches are accurate. All good design and construction practices were observed during construction.

If you have any further questions, please contact me as soon as possible so this matter can be closed.

Sincerely,

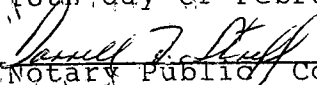

James J. Huls P.E.
City Engineer
Salem, South Dakota 57058

JH/sd

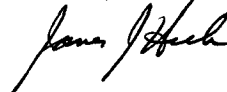
Cert. no 1948

State of South Dakota, McCook County

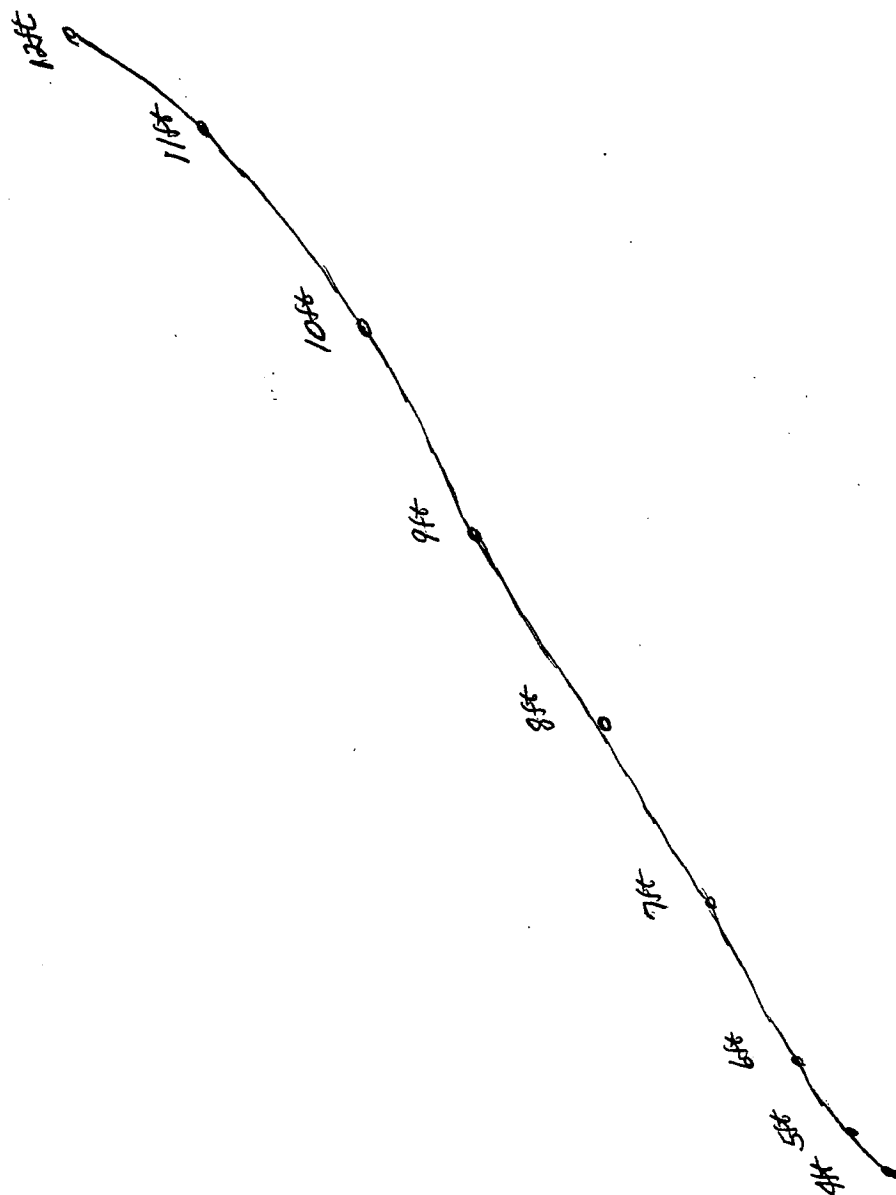
James J. Huls Personally
appeared before me and signed
the above statement on this
16th day of February 1989


Notary Public Comm. Expires Nov. 9, 1989

expires Dec 31, 1990



22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS



9

8

7

6

5

4

3

2

Surface Area Acres

Capacity
Ac-ft

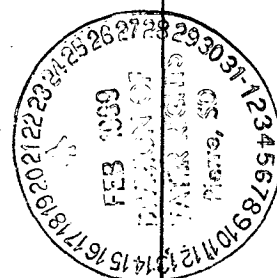
50

40

30

20

10

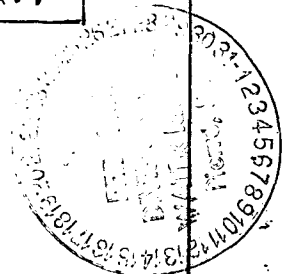


Area-Capacity

McCook Country Club
DAM

2-14-89

Station	Cross Sectional Area @ Water Depth (ft)								
	12 ft	11	10	9	8	7	6	5	4
1	2094	1943	1555	1292	1052	875	675	500	400
2	2850	2541	2190	1863	1560	1278	1020	850	680
3	3420	3064	2665	2291	1940	1610	1305	1050	840
4	2850	2541	2190	1863	1560	1278	1020	850	680
5	2850	2625	1971	1656	1365	1095	850	680	510
6	1170	1000	792	696	450	250	165	90	40
7	1125	948	746	662	200	160	105	55	20
8	664	532	384	312	200	160	105	55	20
9	602	480	408	336	176	98	50	20	0
10	661	531	383	323	158	85	25	0	0
11	555	430	296	298	100	75	20	0	0
12	352	258	158	122	54	25	0	0	0
13	274	188	101	77	27	20	0	0	0
14	200	120	96	64	20	0	0	0	0
15	124	55	43	30	0	0	0	0	0
16	62	55	0	0	0	0	0	0	0
Capacity ft ³	2283095	1979265	1607470	1361025	1019130	806035	614100	477250	366850
Capacity Acres ft	52.4	45.4	36.9	31.2	23.4	18.5	14.1	11.0	8.4
Surface Area Acres	8.2	7.7	6.7	5.6	4.6	3.7	2.9	2.5	2.4

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

February 8, 1989

Ed Kranz
Salem Lumber Company
120 North Dakota
Salem, South Dakota 57058

Dear Mr. Kranz:

We have reviewed the plans and specifications you submitted for the McCook Country Club Dam. Although they are somewhat sketchy, the information is available with the exception of an area-capacity curve as described in Section 74:02:08:09.(4). An area-capacity curve is defined as a graphic curve which shows the relationship between the reservoir surface area and the storage capacity of the reservoir at given elevations. A tabular relationship would also be accepted.

The area-capacity curve is also necessary to check if the amount of water claimed on the Water Permit Application is correct.

Our rules require the plans and specifications be signed by a South Dakota registered professional engineer (SDRPE)) pursuant to SDCL 36-18, or a person under the supervision of a SDRPE who designs and inspects dams as part of his or her employment. We are returning your City Engineer's cover letter which accompanied the plans and specification to allow him to include his professional registration seal on them.

If you have any questions concerning this matter, please let us know.

Very truly yours,

John Hatch, Chief Engineer
Water Rights Division
605 773-3352

cc: James J. Huls, P.E.





McCook Country Club

P.O. Box 129

Salem, South Dakota 57058

January 28, 1989



S. D. Dept. of Water & Natural Resources
Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

Dear Mr. Hatch:

Enclosed are copies of the plans and specifications you requested of our dam we have built and a letter included from the City Engineer Jim Huls.

I hope you will look over the plans and specifications. If these are not adequate, would you please advise us so that we may get additional information to you before February 15th.

Thank you.

Sincerely,

Ed Kranz

Ed Kranz
Project Chairman

EK/sk

*P.S. This letter should have been
sent along with the plans sent earlier.*

 **Department of
Water & Natural Resources**

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

January 4, 1989

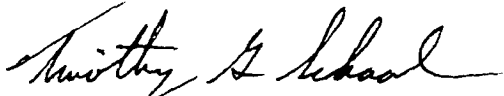
Chuck Lebeda
SCS Office
Box 489
Salem SD 57058

Dear Mr. Lebeda:

Enclosed is a copy of our Safety of Dams Rules, Chapter 74:02:08.
Section 74:02:08:09 contains the minimum plans and specifications
needed for review by the Chief Engineer.

If you have any questions, please give me a call.

Sincerely,



TIMOTHY G SCHAAL
Natural Resources Engineer
605 773-3352

enclosure



SOIL CONSERVATION SERVICE
Box 489
Salem, SD 57058
605-425-2483

January 17, 1989

Tim Schaal
Division of Water Rights
523 E. Capitol, Joe Foss Bldg.
Pierre, SD 57501

Dear Mr. Schaal:

In response to our telephone conversation, I have checked our records on the dam construction by the McCook County Country Club.

The McCook Country Club contacted the Soil Conservation Service in the winter of 1988 for assistance in the design of an impoundment on their property. Some preliminary non-design assistance was given to the Club. However, because of other commitments, SCS was unable to provide the engineering design that would meet the Club's proposed construction schedule.

To the best of our knowledge, the Club did proceed with the project. The Soil Conservation Service, however, did not provide any engineering design work on the project.

If you have any further questions, please feel free to call our office.

Sincerely,

Chuck

Chuck S. Lebeda
District Conservationist

①



MCCOOK COUNTRY CLUB DAM

Legal Description

112 rods east of the SW corner of Section 14-103-55 and 110 north of the SW corner of Section 14-103-55.

Location of the spillway is on the east

Contiguous Property

To the north of the City of Salem sewage disposal area

To the west the land is owned and operated by Lloyd Roling

To the east the property is owned by the McCook Country Club.

To the south the $N\frac{1}{2}NE\frac{1}{4}$ is owned by Ag Services and the $NW\frac{1}{4}$ is owned by Clyde Streff.

Capacity at 36" pipe

Capacity at 60' spillway

Auxiliary spillway 3feet

Primary spillway 4feet



LEGEND

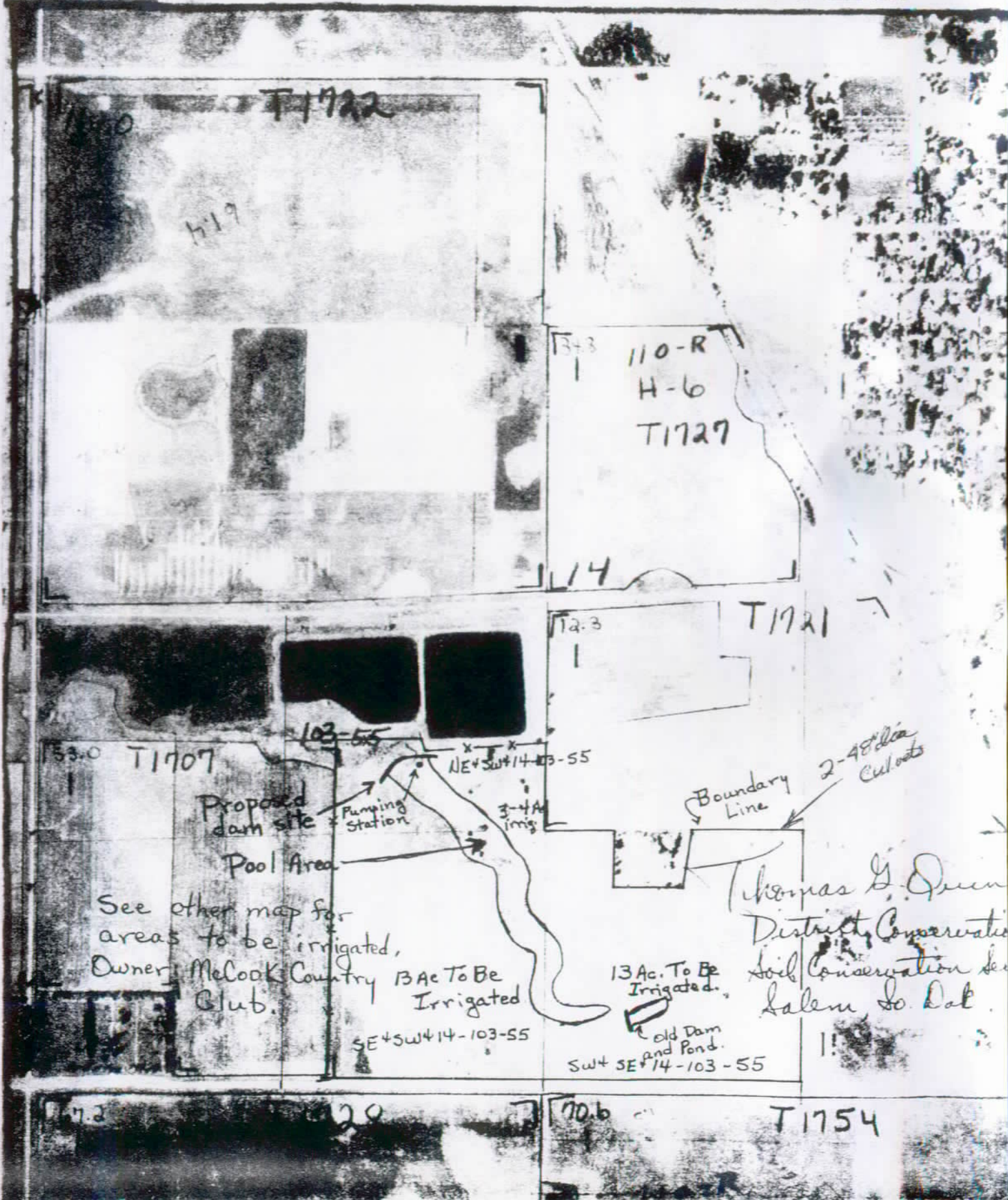
Unified Soil Classification System Symbol	Description
GW	Well graded gravels with less than 5% fines
GP	Poorly graded gravels with less than 5% fines
GM	Gravels with 12 to 50% non-plastic to slightly plastic fines
GC	Gravels with 12 to 50% moderately to very plastic fines
SW	Well graded sands with less than 5% fines
SP	Poorly graded sands with less than 5% fines
SM	Sands with 12 to 50% non-plastic to slightly plastic fines
SC	Sands with 12 to 50% moderately plastic to very plastic fines
ML	Non-plastic to slightly plastic fines with low liquid limit
CL	Slightly to moderately plastic fines with low liquid limit
MH	None to slightly plastic fines with high liquid limit
CH	Highly plastic to very highly plastic fines with high liquid limit

Total Depth - TD	Hole No.	Location
Water Table - WT or	1-99	Centerline of dam
Disturbed Sample - DS	100-199	Borrow
Undisturbed Sample - US	200-299	Emergency Spillway
Slit Spoon Sample - Spt	300-399	Principal Spillway
	400-499	Creek Channel
	500-599	Relief Wells
	600-699	Other Exploration

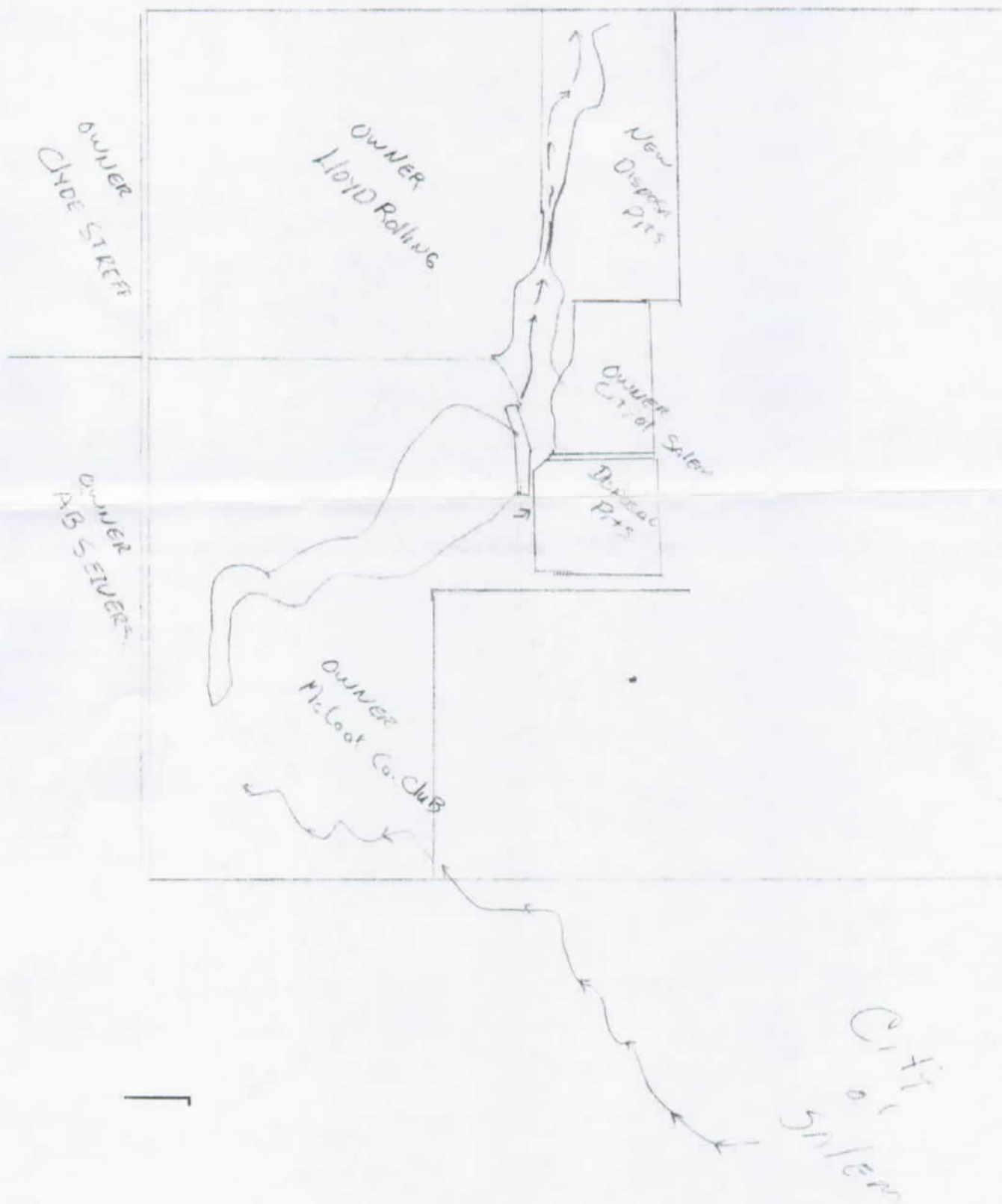
Site Conditions:

Site will be cleared of sod & other
grassy material -
A core trench will be constructed at
6' depth with 1 1/2% slopes with an 8' bottom
It will be back filled with good clay material
that can be taken from the next step -

①
NOT TO SCALE



①





LOG SHEET FOR EARTH BORINGS

Cooperator McGee, C. C. Practice

CD	County
----	--------

Farm, I.D. No.	Technician	Date
----------------	------------	------

Sec.	T	R	Hole No.	Hole Elevation
				50' <i>cont. T. & T.</i>

Drilling Location _____

Unified Soil

Class Symbol	Description of Material
100	General Works
200	Reference Works
300	History, Geography, and Travel
400	Language and Literature
500	Mathematics, Science, and Technology
600	Medicine and Health
700	Education and Pedagogy
800	Philosophy and Religion
900	Arts and Recreation

五

	ML
--	----

Sec sheet #1. 56' east of #1

-2 CL

-3 CL

$$-4CH$$

15
3

— ML

See sheet # 1

-r	ML
----	----

-2 CL

$$\begin{array}{c} - \\ -3 \end{array} | CH$$



LEGEND

Unified Soil
Classification
System Symbol

Description

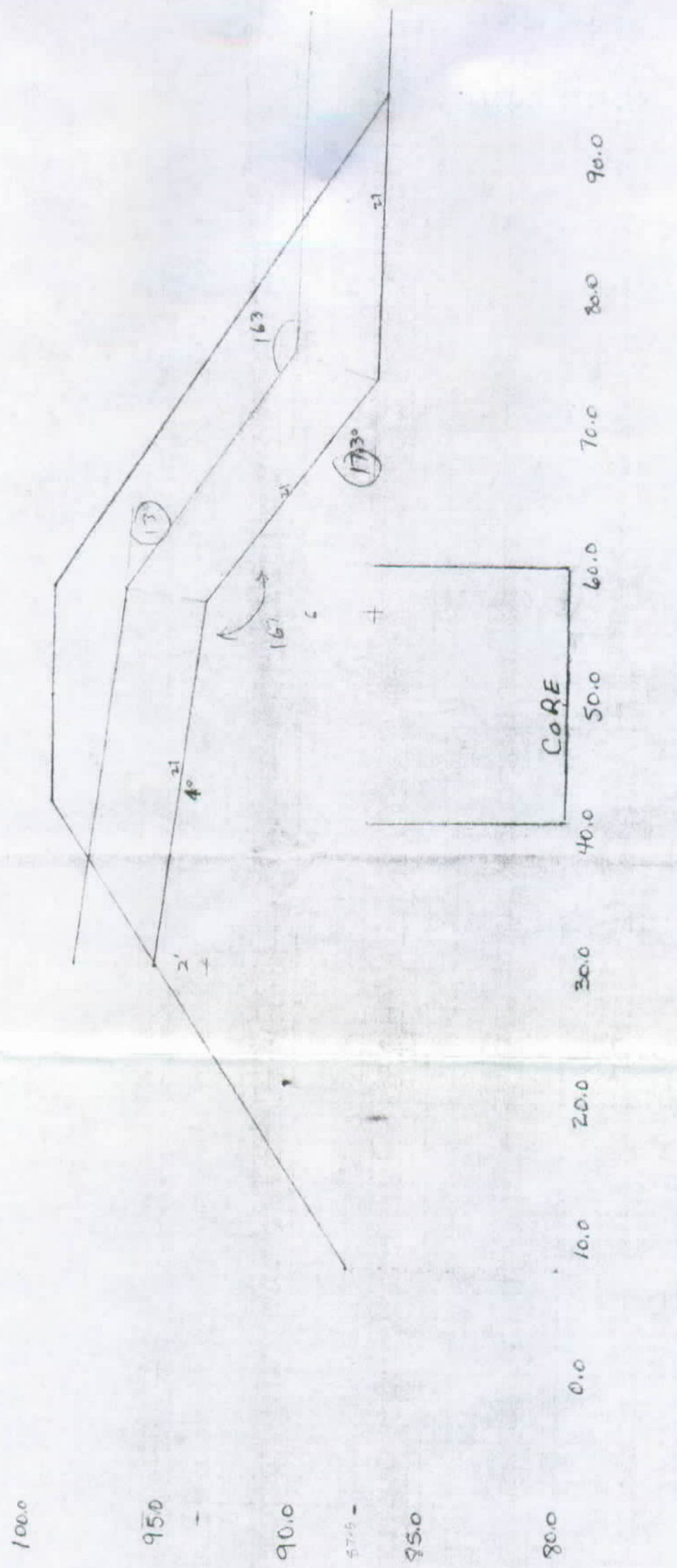
GW	Well graded gravels with less than 5% fines
GP	Poorly graded gravels with less than 5% fines
GM	Gravels with 12 to 50% non-plastic to slightly plastic fines
GC	Gravels with 12 to 50% moderately to very plastic fines
SW	Well graded sands with less than 5% fines
SP	Poorly graded sands with less than 5% fines
SM	Sands with 12 to 50% non-plastic to slightly plastic fines
SC	Sands with 12 to 50% moderately plastic to very plastic fines
ML	Non-plastic to slightly plastic fines with low liquid limit
CL	Slightly to moderately plastic fines with low liquid limit
MH	None to slightly plastic fines with high liquid limit
CH	Highly plastic to very highly plastic fines with high liquid limit

Total Depth - TD	Hole No.	Location
Water Table - WT or	1-99	Centerline of dam
Disturbed Sample - DS	100-199	Borrow
Undisturbed Sample - US	200-299	Emergency Spillway
Slit Spoon Sample - SPT	300-399	Principal Spillway
	400-499	Creek Channel
	500-599	Relief Wells
	600-699	Other Exploration

Site Conditions:

Site will be cleared of soil & other
vegetation.

A core trench will be constructed at
6' depth with 1:1 slopes with an 8' bottom.
It will be back filled with good clay material
that can be taken from the next step.



Scale: Vertical: 1" = 5'
Horizontal: 1" = 10'

Supplemental Information

(type or print in ink)



1. Well Information - Proposed construction

- a) Drill Hole Diameter _____ Depth _____
- b) Casing Type _____ Diameter _____ Thickness _____
- c) Screen Type _____ Diameter _____ Thickness _____
- d) Gravel Pack Thickness _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material _____
- f) Depth to Water (ground surface to water level) _____
- g) Distance to nearest existing domestic well:
- On applicants property _____ On property owned by others _____

2. Dugout Information Estimates

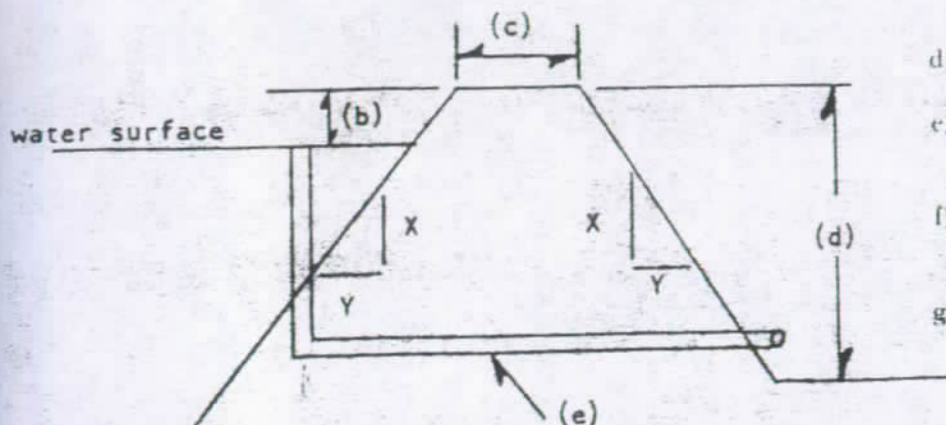
- a) Surface Dimensions _____ Depth _____
- b) Depth to water (ground surface to water level) _____

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 4'
- c) Crest Width 16'
- Crest Length 440'
- d) Height 15'
- e) Primary Outlet Capacity _____
- If Pipe, diameter 36"
- f) Secondary Spillway Capacity _____
- Spillway width 70'
- g) X & Y Slope 3:1
- Upstream _____
- Downstream 3:1



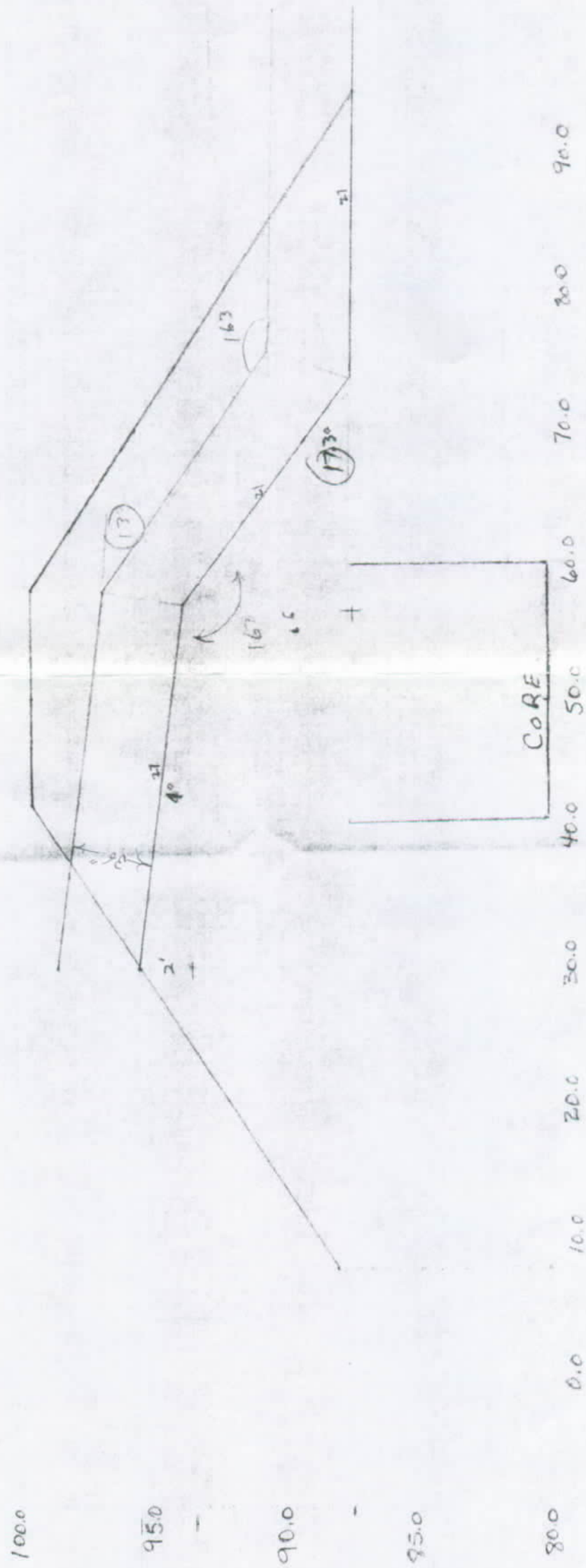
Surface Area of Impoundment 13.8 Ac.

Storage 100 acre feet

Drainage area above dam 1300 Ac.

McCoy C. Club.
 C. K. K...
 Signature of Applicant

3



Vertical: $1'' = 5'$
 Horizontal: $1'' = 10'$

③ 44

Supplemental Information

(type or print in ink)



1. Well Information - Proposed construction

- a) Drill Hole Diameter _____ Depth _____
- b) Casing Type _____ Diameter _____ Thickness _____
- c) Screen Type _____ Diameter _____ Thickness _____
- d) Gravel Pack Thickness _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material _____
- f) Depth to Water (ground surface to water level) _____
- g) Distance to nearest existing domestic well: _____
- On applicants property _____ On property owned by others _____

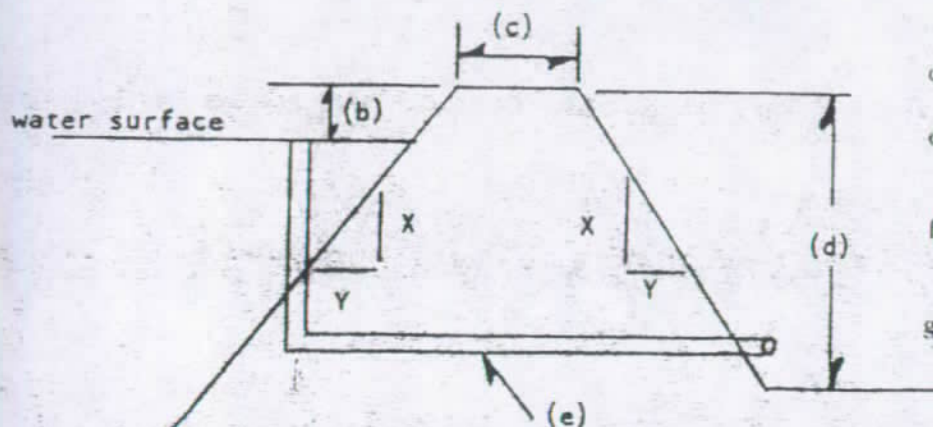
2. Dugout Information Estimates

- 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 4'
- c) Crest Width 16'
- Crest Length 440'
- d) Height 15'
- e) Primary Outlet Capacity _____
If Pipe, diameter 36"
- f) Secondary Spillway Capacity _____
Spillway width 70'
- g) X & Y Slope
Upstream 3:1
Downstream 3:1

Surface Area of Impoundment 13.8 Ac

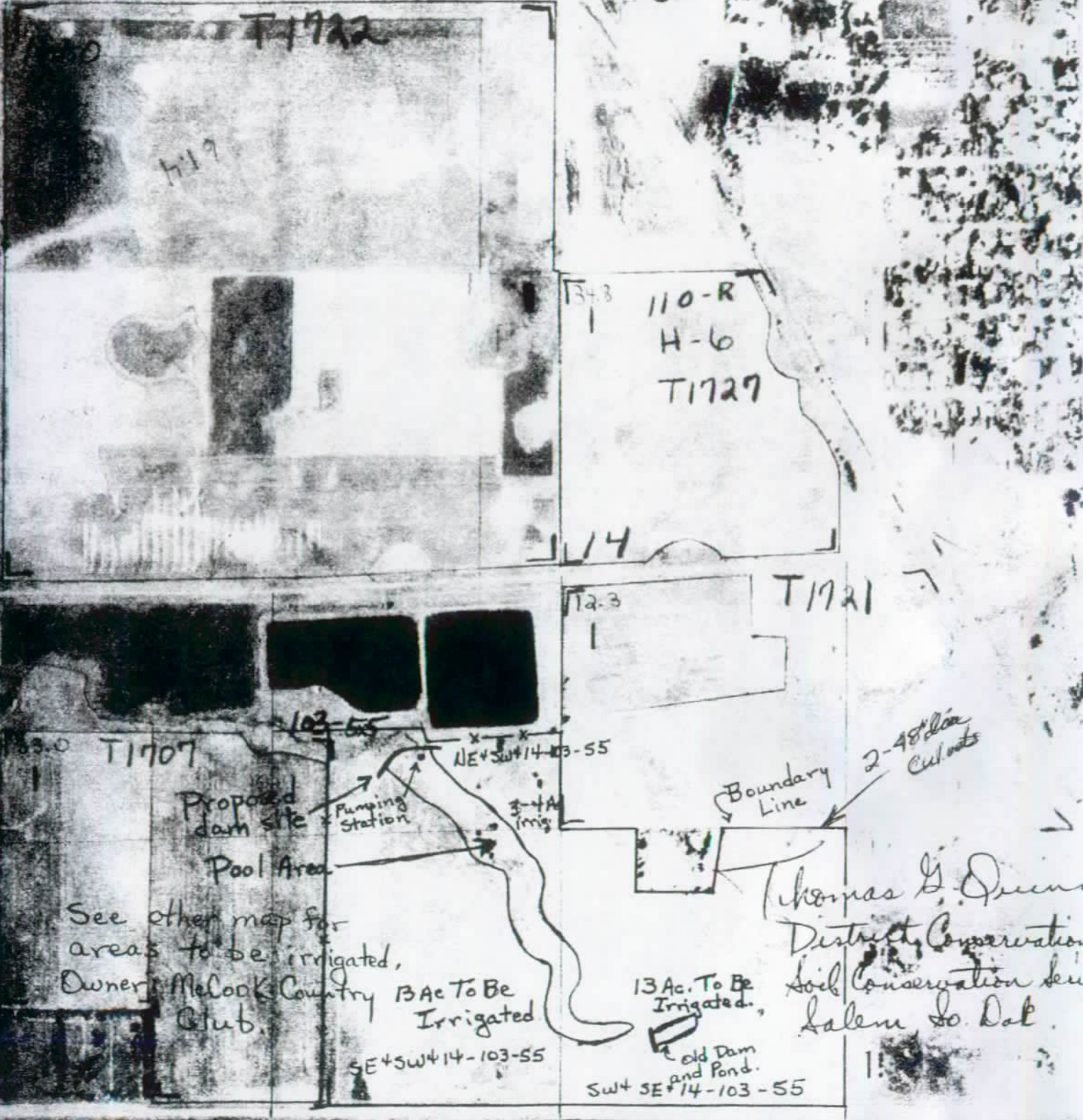
Storage 100 acre feet

Drainage area above dam 1300 ac

McCoy C. Club
Ed. K. K. K.

① +4

NOT TO SCALE



70.2 70.4 70.6 T1754



6

Discharge Capacity



Spillway dimensions

60 ft wide base, 4:1 side slope

Assume 2 ft per second flow (nominal)

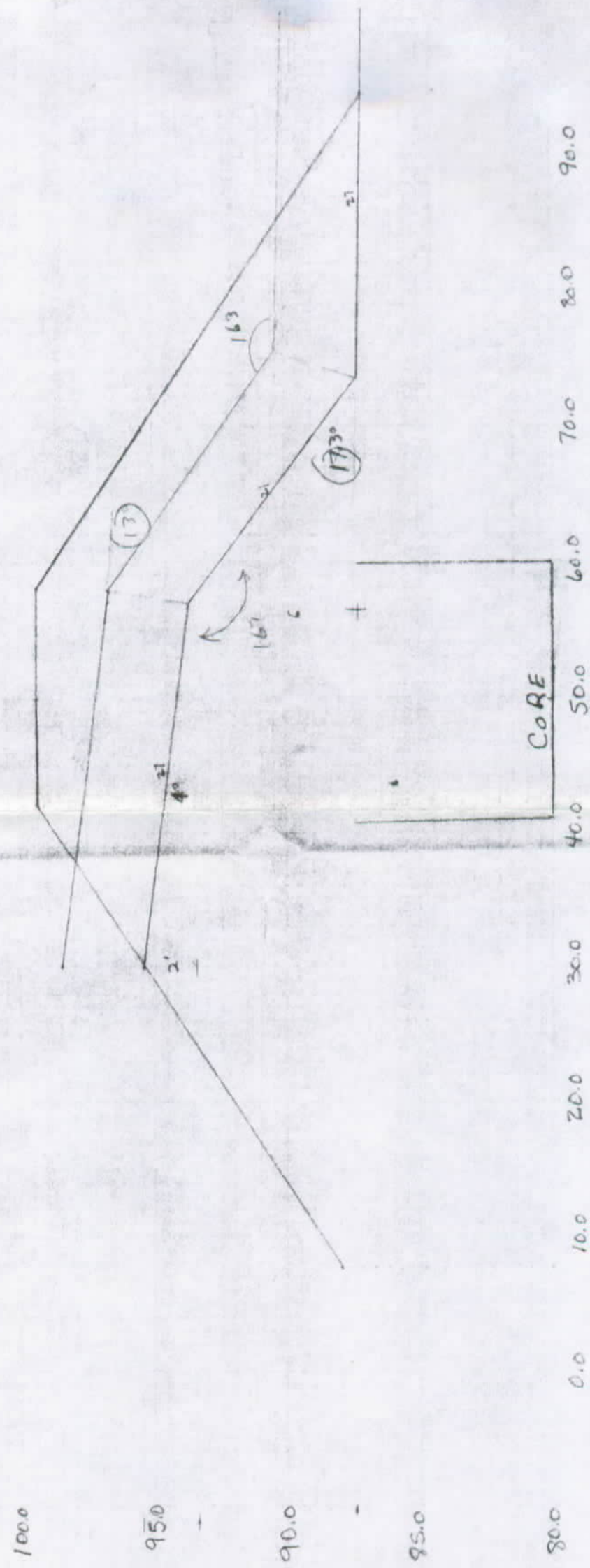
Water depth 1 ft	$64' \times 1' \text{ depth} = 64 \text{ ft}^2 \times 2 \text{ ft/sec} = 128 \text{ ft}^3/\text{sec}$
2 ft	$68' \times 2' \text{ depth} = 136 \text{ ft}^2 \times 2 \text{ ft/sec} = 272 \text{ ft}^3/\text{sec}$
Max Water level 3 ft	$72' \times 3' \text{ depth} = 216 \text{ ft}^2 \times 2 \text{ ft/sec} = 432 \text{ ft}^3/\text{sec}$

Note: - Dam also contains 36" dia overflow pipe = 35 ft³/sec

- Stream channel entering Golf Course under West Center Ave (noted on enclosure*) is 2 - 48" dia culverts

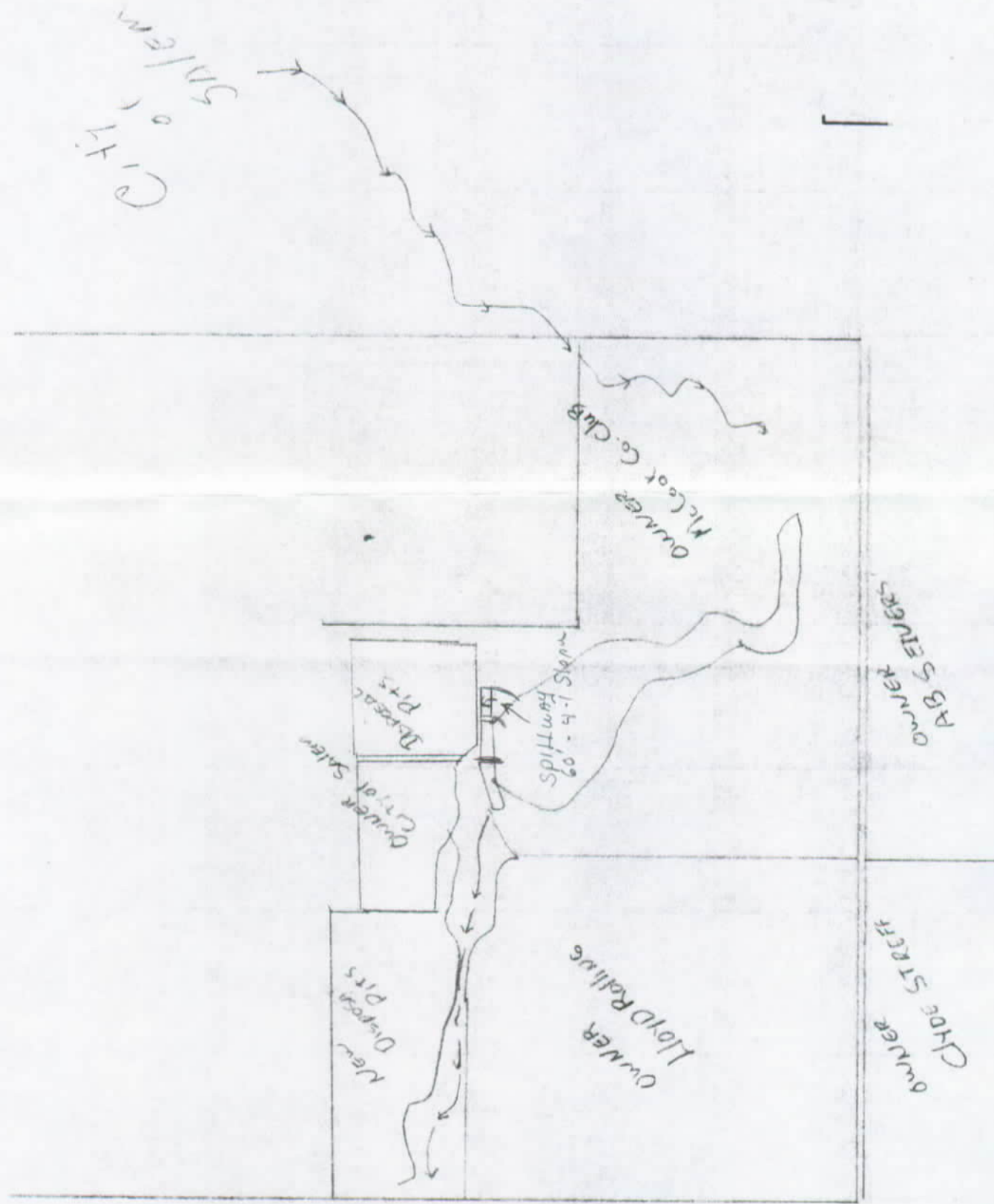


5



Scale: Vertical : 1" = 5'
Horizontal : 1" = 10'

①



1/30/89

T65

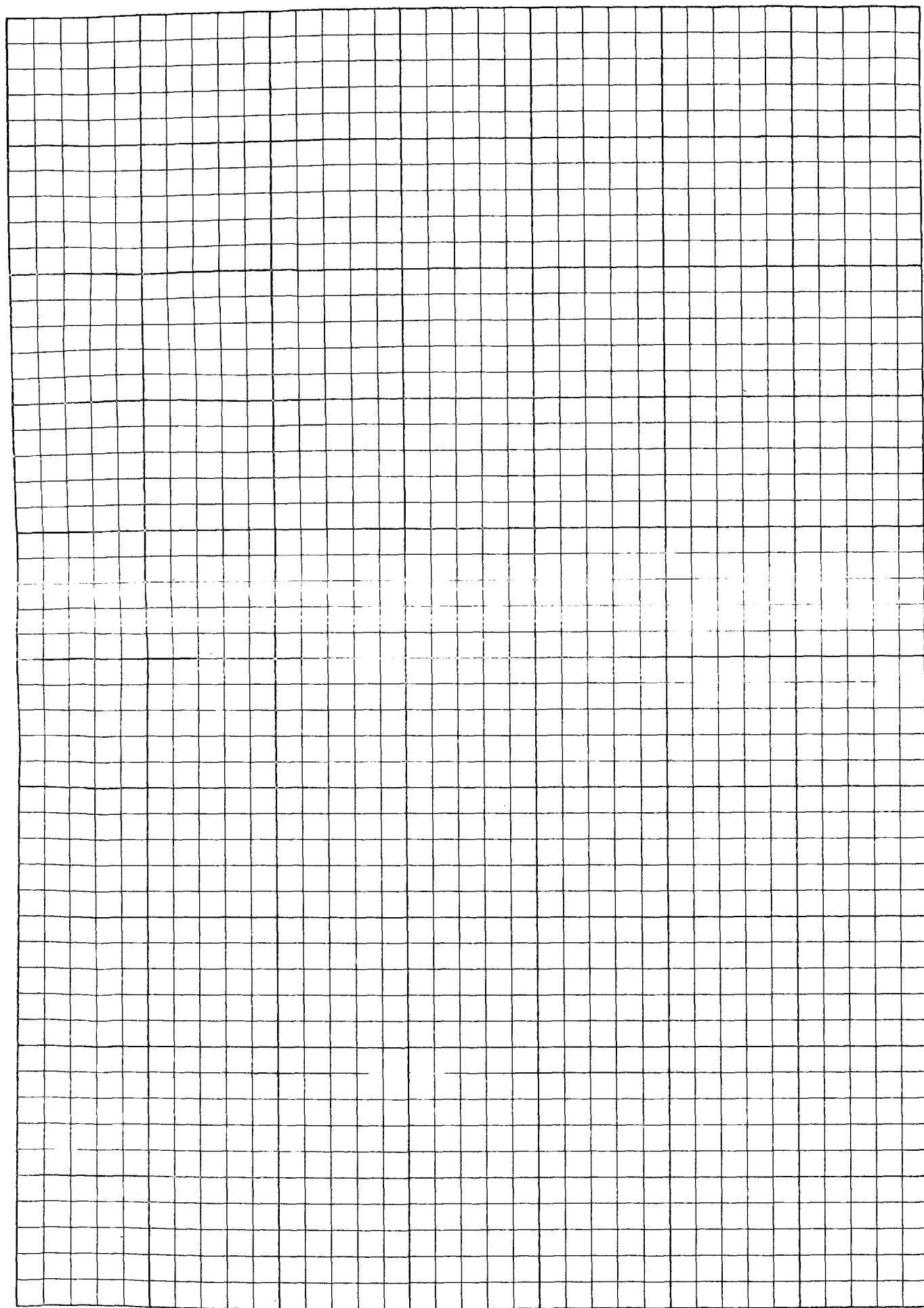
Review of McCook Country Club Dam Plans & Specifications

Safety of Dams Rules Chapter 74:02:08

Section 09. Contents of plans & specifications

- 1) Topo Map & Contiguous property - OK
- 2) Profile showing location, Elev., & logs of test holes - OK
- 3) Max. X-Section showing Elev. & crest width - OK
U/S & D/S slopes, location & elev of outlets, etc.
- * 4) Area-capacity curve - No
- 5) Drawings of outlet - OK
- 6) Spillway rating Curve - OK
Conservatively low analysis still passes 25 year flood
- 7) Spillway plans - OK
- 8) Construction supervision - OK
- 9) EPP - NA

Need Area-capacity curve & PE registration seal



 **Department of
Water & Natural Resources**

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

February 23, 1989

Ed Kranz
Salem Lumber Company
120 North Dakota
Salem, South Dakota 57058

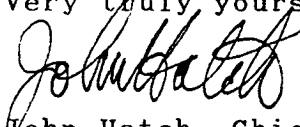
Dear Mr. Kranz:

With the receipt of the area-capacity curve and the notarized signature of your City Engineer, the plans and specifications for the McCook Country Club Dam are approved.

Our review was to determine compliance with the Water Management Board Safety of Dams Rules, Chapter 74:02:08. Approval of these plans and specifications does not release the McCook Country Club as owner of the dam from the responsibility for operating and maintaining the dam in good repair to assure the safety of the dam.

If you have any questions, please let us know.

Very truly yours,



John Hatch, Chief Engineer
Water Rights Division
605 773-3352



SOUTH Dakota Department of
Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

February 27, 1989

NOTICE

TO: Ed Kranz, Project Chairman
McCook Country Club
PO Box 129
Salem SD 57058

FROM: John Hatch, Chief Engineer
Water Rights Division
605 773-3352



SUBJECT: Reconsideration of Water Permit Application No. 5222-3,
McCook Country Club

On December 8, 1988, the Water Management Board deferred action on Water Permit Application No. 5222-3 pending receipt and approval of plans and specifications for the 80 acre-feet storage dam. The plans and specifications for the dam have been received and are approved. Therefore, the Water Management Board will reconsider Application No. 5222-3 at 8:45 am on March 2, 1989, at the Howard Johnson's, Roosevelt Room, I-90 and LaCrosse, Rapid City SD. The agenda time is an estimate. The actual time of hearing may be later than 8:45 am due to prior agenda items.

Enclosed is a revised Chief Engineer's recommendation to approve Application No. 5222-3 with qualifications. Applicable provisions of the notice of hearing published on November 3 and 10, 1988 in the Salem Special will still apply at this hearing.

cc: Larry Donovan, Assistant Attorney General

CERTIFICATION

I hereby certify that on February 27, 1989 I have personally deposited with the U.S. Mail postage prepaid envelopes containing a Notice of Reconsideration of Water Permit Application No. 5222-3, McCook Country Club addressed as stated on the notice.

Karen Schlaak
KAREN SCHLAACK
Senior Secretary

STATE OF SOUTH DAKOTA)
) SS
COUNTY OF HUGHES)

Sworn to, before me, this 3rd day of March, 1989.



John Hatch
Notary Public

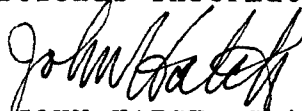
REVISED RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 5222-3, MCCOOK COUNTRY CLUB

Pursuant to SDCL 46-2A-2, the following is the revised recommendation of the Chief Engineer, Water Rights Division, Department of Water and Natural Resources concerning Water Permit Application No. 5222-3, McCook Country Club, P.O. Box 129, Salem, SD 57058.

The Chief Engineer is recommending APPROVAL of Application No. 5222-3 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. Approval of this Permit authorizes storage of up to 82 acre-feet storage annually.
2. Low flows as needed for downstream domestic use, including livestock water and prior water rights must be by-passed.
3. This permit is approved subject to the irrigation water use questionnaire being submitted each year.
4. That the statutory limit of 1.0 cubic foot per second per 70 acres may not be exceeded when pumping pursuant to Permit No. 5222-2, unless the time of each water application is reduced to a corresponding equivalent time period and the total amount of water applied does not exceed 24 inches per year.

See the attached report for additional information.



JOHN HATCH, Chief Engineer
February 23, 1989

Conversation or File Documentation

NAME OF PERSON OR FILE: McCook Country Club
ADDRESS: Box 129 Saliem SD 57058 COUNTY McCook
DATE: April 6, 1989 TELEPHONE _____
RE: S/W Comp. Permit for McCook Country Club
COMMENTS:

Upon reviewing the S/W permit that Jim Stukel sent over in response to the application we sent over, it appeared the S/W was for a well and not surface water.

I took the file over to Jim. He said that there is not a well and that this permit is for surface water.

He also said this one was done a long time ago (1976) and may not be as clear as the permits issued now.

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: Susan A. Bowser



Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

JUN 13 1989

McCook Country Club
Ed Kranz
PO Box 129
Salem SD 57058

Dear Mr. Kranz:

Enclosed is Water Permit No. 5222-3 as approved by the Water Management Board authorizing construction of the water system and the application of water beneficial use, not exceeding the limits as specified in the Water Permit.

We will schedule an inspection so that the Water License may be issued to you, thus completing your acquisition of a Water Right.

Very truly yours,

A handwritten signature in black ink, appearing to read "John Hatch". The signature is written in a cursive, flowing style.

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

enclosures





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

January 29, 1993

NOTICE

TO: MCCOOK COUNTRY CLUB
501 S DOUGLAS
SALEM SD 57058

FROM: Ron Duvall, Natural Resources Engineer IV
for JOHN HATCH, Chief Engineer
Water Rights Division

RE: Violation of Water Permit No(s) 5222-3

Our records indicate that the 1992 Irrigation Questionnaire has not been submitted for Permit No(s) 5222-3. The request for the Questionnaire was dated October 16, 1992. The Water Management Board has directed that owners of water permits who have not submitted the 1992 Irrigation Questionnaire be given notice of permit violation and a hearing to be held by the Board. The hearing held by the Board will determine the action to be taken for violation of Water Permit No(s) 5222-3 qualification:

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

The hearing will be held at 9:30 am, March 3, 1993, 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. 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) 5222-3 in accordance with applicable provisions of SDCL 46-1-12;
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. Prior to February 22, 1993, contact the Water Rights Division, 523 E Capitol, Pierre SD 57501-3181 (605 773-3352) to assure access to the meeting room for the handicapped or to obtain an interpreter for the hearing impaired.

NOTE: If the questionnaire(s) is(are) received in this office before the March 3rd hearing date, you will no longer be in violation of your permit and your name will be deleted from the Board agenda.

Is your RETURN ADDRESS completed on the reverse side?

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 will show to whom the article was delivered and the date delivered.

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:

MCCOOK COUNTRY CLUB
501 S DOUGLAS
SALEM SD 57058

4a. Article Number

P906-560124

4b. Service Type

- | | |
|---|---|
| ☐ Registered | ☐ Insured |
| ☒ Certified | ☐ COD |
| ☐ Express Mail | ☐ Return Receipt for Merchandise |

7. Date of Delivery

2-1-93

5. Signature (Addressee)

6. Signature (Agent)

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

PS Form 3811, December 1991 ☆ U.S.G.P.O.: 1992-307-530

DOMESTIC RETURN RECEIPT

Thank you for using Return Receipt Service.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

February 26, 1993

5222-3

Dan Sabers
McCook Country Club
Box 129
Salem, SD 57058

Dear Mr. Sabers:

I am writing to acknowledge receipt of your 1992 irrigation questionnaire for Water Permit No. 5222-3. You may disregard the January 29, 1993, **Notice of Violation of Water Permit.**

The questionnaire was received in our office prior to the Water Management Board meeting, your name has been deleted from the agenda.

If you have any questions, please contact me.

Sincerely,

Genny McMath
Natural Resources Analyst
Water Rights Division
(605) 773-3352



January 30, 1996

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

NOTICE

TO: MCCOOK COUNTRY CLUB, DAN SABERS, BOX 129, SALEM, SD 57058

FROM: Ron Duvall, Natural Resources Engineer
for John Hatch, Chief Engineer
Water Rights Program

SUBJECT: Violation of Water Permit No(s) 5222-3

Our records indicate that the 1995 Irrigation Questionnaire has not been submitted for Permit No(s) 5222-3. The request for the Questionnaire was dated October 20, 1995. The Water Management Board has directed that owners of water permits who have not submitted the 1995 Irrigation Questionnaire be given notice of permit violation and a hearing to be held by the Board. The hearing held by the Board will determine the action to be taken for violation of Water Permit No(s) 5222-3 qualification:

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

The hearing will be held at 9:45 am, March 6, 1996 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 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) 5222-3 in accordance with applicable provisions of SDCL 46-1-12;
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 on/or before March 1, 1996, you will no longer be in violation of your permit and your name will be deleted from the Board agenda. If you have questions or need assistance in completion of the irrigation questionnaire(s), please contact Genny McMath at (605) 773-3352.

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.

ed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- 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 will show to whom the article was delivered and the date delivered.

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:

MCCOOK COUNTRY CLUB
DAN SABERS
BOX 129
SALEM SD 57058

4a. Article Number

2 161 984 062

4b. Service Type

- | | |
|---|------------------------------------|
| ☐ Registered | ☐ Certified |
| ☐ Express Mail | ☐ Insured |
| ☐ Return Receipt for Merchandise | ☐ COD |

7. Date of Delivery

2-1-96

5. Received By: (Print Name)

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

6. Signature: (Addressee or Agent)

X

Kinda Koch

Is your RETURN?

PS Form 3811, December 1994

Domestic Return Receipt

Thank you for using Return Receipt Service.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

February 7, 1996

5222-3

Dan Sabers
McCook Country Club
Box 129
Salem, SD 57058

Dear Mr. Sabers:

I am writing to acknowledge receipt of your 1995 irrigation questionnaire. You may disregard the January 30, 1996, **Notice of Violation of Water Permit No. 5222-3.**

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
Environmental Scientist
Water Rights Program
(605) 773-3352

LICENSE FOR PERMIT NUMBER 5222-3

1. Legal location of wells: _____

dams & structures: North Dam -

2. Well Information: Well Drilling Firm _____

2 pumps

Completion Report Yes ___ No ___ No. of Wells _____ Depth _____

Casing a) diameter _____ Screen a) type _____
b) length _____ b) length _____
c) type _____ Static Water Level _____

Pump #1 a) make Berkley Pump Motor a) make Baldor Industrial Motor
b) model B1 1.2 ZPL SN= 8149721 b) model No. Frame 184 TC 2
c) size Imp Diam 7 3/16 c) horsepower rating 7.5
d) capacity 100 gpm 3600 RPM SN- F 382
e) turbine pump - no. of stages _____
f) operating PSI _____

3. Distribution lines or canals

a) size 3" + 4"
b) type PVC
c) length through out golf course

Pump + Motor #2

make - Magnetek Century Electric
E Plus Pump Motor
Model No. - S 284 IP
HP - 30
Capacity - 300 gpm
? Part No - 6-360367-02
Size - 7.5

4. Dam Information:

a) height to crest 5' 12" m) Outlet tubes:
b) height to primary spillway 12" 1) diameter 36"
c) height to secondary spillway 7" 2) type steel culvert
d) crest width 20' 3) valved (Y/N) N
e) crest length 200' 4) valve type _____
f) spillway length 15' 5) location on structure _____
g) spillway width 30' 70 _____
h) approx. storage 30 n) Category of Dam 3
i) approx. storage to crest 50 80 _____
j) date constructed Fall 1988
k) inspection sheet completed (Y/N) yes
l) Name of Contractor Heiten Construction

Permit No. 5222-3Vermillion River Water District**Report Of Examination Of Works And/Or Application Of Water To Beneficial Use**

TO: Chief Engineer, Division of Water Rights, DWNR, Foss Bldg., Pierre, SD 57501

I have this day made a thorough examination of the water use system constructed by McCook Country ClubBox 129 of Salem, SD 57058 holder ofPermit No. 5222-3, bearing the priority of July 15 19 88 authorizingthe diversion of .67 cu. ft. per second of the waters of City of Salem run-off waterfor irrigation purposes, in McCook County.

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

A. Works used to divert the water:

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

C. Works used to apply water to beneficial use:

*Reinspect
with someone
who knows something
about this*The system is in the following condition goodThe point of diversion is located 1850' east and 1650' North of the SW corner
Sec 14 - T103N - R55W

The works are capable of diverting and conveying to the place of use _____

cu. ft. per second of water which is to be used for irrigationWater has been put to beneficial use to the maximum extent as follows: Section 14 - T103N - R55NE 1/4 SW 1/4SE 1/4 SW 1/4SW 1/4 SE 1/4

comprising a total of _____ acres of land and the license should be issued for _____ cfs

Applicable permit qualifications have been complied with _____ Yes _____ No

Exceptions to compliance are: _____ Date 6/17/1991

(signature)

NOT TO SCALE





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

January 18, 2008

NOTICE

TO: MCCOOK COUNTRY CLUB, CLAYTON M KERN, BOX 129, SALEM, SD 57058

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

SUBJECT: Reporting Requirement for 2007 Irrigation Questionnaire(s)

Our records indicate that the 2007 Irrigation Questionnaire(s) has not been submitted for Permit No(s) 5222-3. The request for the Questionnaire was dated October 19, 2007. The Water Management Board has directed that owners of water permits who have not submitted the 2007 Irrigation Questionnaire(s) be given notice of permit violation and a hearing to be held by the Board. The hearing is to determine what action is to be taken for violation of Water Permit No(s) 5222-3 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 11, 2008** 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) 5222-3 in accordance with applicable provisions of SDCL 46-1-12;
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 on/or before **March 3, 2008**, you will no longer be in violation of your permit and your name will be deleted 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. If you prefer, you can complete the questionnaire on-line at the following link:
<https://www.state.sd.us/eforms/secure/eforms/E0455V6-IQ.pdf>

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.

5222-3

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Track & Confirm

Search Results

Label/Receipt Number: 2303 2160 0000 0802 3257

Status: **Delivered**

Your item was delivered at 4:23 PM on January 29, 2008 in SALEM, SD 57058. The item was signed for by C KERN.

[Additional Details >](#)[Return to USPS.com Home >](#)

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Enter Label/Receipt Number.

Notification Options

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MCCOOK COUNTRY CLUB
CLAYTON M KERN
BOX 129
SALEM SD 57058

Waiver of Signature ☐ YES ☐ NO

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www.state.sd.us/denr

February 1, 2008

5222-3

Clayton M Kern
McCook Country Club
Box 128
Salem SD 57058

Dear Mr. Kern:

I am writing to acknowledge receipt of your 2007 irrigation questionnaire. You may disregard the January 18, 2008, "Notice" concerning reporting requirements for Water Permit No. 5222-3.

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
Environmental Scientist
Water Rights Program
(605) 773-3352



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www.state.sd.us/denr

January 23, 2009

NOTICE

TO: MCCOOK COUNTRY CLUB, BRAD KRONZ, BOX 129, SALEM, SD 57058

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

SUBJECT: Reporting Requirement for 2008 Irrigation Questionnaire(s)

Our records indicate that the 2008 Irrigation Questionnaire(s) has not been submitted for Permit No(s) 5222-3 & 6874-3. The request for the Questionnaire was dated October 24, 2008. The Water Management Board has directed that owners of water permits who have not submitted the 2008 Irrigation Questionnaire(s) be given notice of permit violation and a hearing to be held by the Board. The hearing is to determine what action is to be taken for violation of Water Permit No(s) 5222-3 & 6874-3 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 11, 2009** 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) 5222-3 & 6874-3 in accordance with applicable provisions of SDCL 46-1-12;
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 on/or before **March 6, 2009**, you will no longer be in violation of your permit and your name will be deleted 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. If you prefer, you can complete the questionnaire on-line at the following link:

<https://www.state.sd.us/eforms/secure/eforms/E0455V7-IQ.pdf>

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.

5222-3

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SALEM SD 57058

Waiver of Signature ☐ YES ☐ NO

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www.state.sd.us/denr

March 12, 2009

NOTICE OF ONE YEAR SUSPENSION OF WATER PERMITS

TO: Brad Kronz, McCook Country Club, PO Box 129, Salem SD 57058-0129

FROM: Garland Erbele Chief Engineer
Water Rights Program *Garland Erbele*

SUBJECT: One Year Suspension of Water Permit Nos. 5222-3 and 6874-3

On March 11, 2009, the Water Management Board ordered:

That effective April 11, 2009, Water Permit Nos. 5222-3 and 6874-3 be suspended for the 2009 irrigation season for failure to submit the 2008 irrigation questionnaire.

If the 2008 irrigation questionnaire is received prior to April 11, 2009 the suspension will not take effect.

Suspension of a water permit or right means water may not be pumped during the 2009 irrigation season. Consistent with the Board's order, you are not permitted to irrigate in 2009 unless the irrigation questionnaires are submitted by April 11th.

After April 11th, you may petition the Water Management Board to rescind the suspension. You will need to submit the 2009 irrigation questionnaires and a letter to our office requesting time on the agenda for the next Water Management Board meeting scheduled for May, 2009 in Pierre, SD. The letter should include your reasons for not completing the 2008 irrigation questionnaires. Decisions of the Board may be appealed to the Circuit Court and State Supreme Court as provided by law.

Please contact Genny McMath (605) 773-3352, if you have any questions.

CERTIFICATION

I hereby certify that on March 12, 2009, I have personally deposited with the United States mail at Pierre, South Dakota, first class postage, prepaid envelopes containing a Notice dated March 12, 2009 regarding cancellation, suspension and amendments of Water Rights addressed as stated below:

Cancelled

Thomas Corrio, 33551 480th Ave., Jefferson SD 57038 5313-3

Gary R Larson, PO Box 337, Bison SD 57620 984-1

3 year suspension

Edward Patrick Henry, PO Box 11, White Clay NE 672-2

1 year suspension

Mike Slocum, Lakes Golf Course, 19 Golf Dr., Wentworth SD 57075 6055-3

Brad Kronz, McCook Country Club, PO Box 129, Salem SD 57058 5222-3 & 6874-3

Donald T & Katherine A Miller, 13217 Wilson Cemetery Rd., Newell SD 57760 1653-1

Duane Rogers, Administrator, 13575 383rd Ave., Aberdeen SD 57401 2943-3

Amendment to Water Right

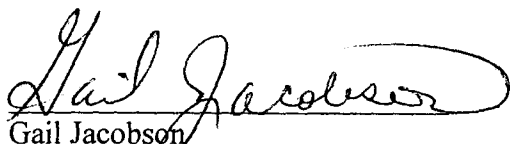
Steven Ching, 46577 188th St., Castlewood SD 57223 3224-3

Emily Stadheim Revocable Trust, 504 11th Ave N, Hettinger ND 58639 1055-1

Kent Wientjes, River Bottom Cattle Co., LLC, PO Box 96, Mobridge SD 57601 1012-1

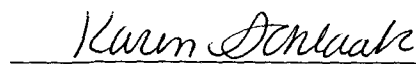
Soderquist Family Ranch Limited Partnership, 17965 Baseline Rd., Wasta SD 57791 618-2

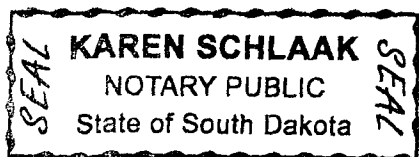
Fred Wientjes, PO Box 127, Mobridge SD 57601 1067-1


Gail Jacobson
Secretary
Water Rights

STATE OF SOUTH DAKOTA)
) SS
COUNTY OF HUGHES)

Sworn to, before me, this 13th day of March, 20 09.


Karen Schlaak
Notary Public
My Commission expires April 1, 2013





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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April 9, 2009

5222-3
6874-3

Clayton M Kern, Supt
McCook Country Club
PO Box 129
Salem SD 57058

Dear Mr. Kern:

On March 11th, the Water Management Board ordered Water Permit Nos. 5222-3 and 6874-3 be suspended if the 2008 irrigation questionnaires were not received prior to April 11, 2009. The questionnaires were received April 8, 2009.

Since the irrigation questionnaires are on file, no violations have occurred and no suspensions will take place. You are hereby authorized to irrigate during the 2009 irrigation season.

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

Sincerely,

A handwritten signature in black ink that reads "Garland Erbele".

Garland Erbele, Chief Engineer
Water Rights Program



5222-3
DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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January 21, 2011

NOTICE

TO: MCCOOK COUNTRY CLUB, BOARD PRESIDENT, PO BOX 129, SALEM, SD 57058
FROM: Ron Duvall, Natural Resources Engineer
for Garland Erbele, Chief Engineer
Water Rights Program

SUBJECT: Reporting Requirement for 2010 Irrigation Questionnaire(s)

Our records indicate that the 2010 Irrigation Questionnaire(s) has not been submitted for Permit No(s) 5222-3 & 6874-3. The request for the Questionnaire was dated October 15, 2010. The Water Management Board has directed that owners of water permits who have not submitted the 2010 Irrigation Questionnaire(s) be given notice of permit violation and a hearing to be held by the Board. The hearing is to determine what action is to be taken for violation of Water Permit No(s) 5222-3 & 6874-3 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 9, 2011** 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) 5222-3 & 6874-3 in accordance with applicable provisions of SDCL 46-1-12;
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 on/or before **March 4, 2011**, 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.

5222-3

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MCCOOK COUNTRY CLUB
BOARD PRESIDENT
PO BOX 129
SALEM SD 57058

Waiver of Signature ☐ YES ☐ NOPostmark
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5222-3

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www.state.sd.us/denr

March 10, 2011

NOTICE OF ONE YEAR SUSPENSION

TO: Clayton Kern, Supt, McCook Country Club, PO Box 129, Salem SD 57058

FROM: Garland Erbele Chief Engineer
Water Rights Program 

SUBJECT: One Year Suspension of Water Right No. 5222-3 and Water Permit No. 6874-3

On March 9, 2011, the Water Management Board ordered:

That effective April 9, 2011, Water Right No. 5222-3 and Water Permit No. 6874-3 be suspended for the 2011 irrigation season for failure to submit the 2010 irrigation questionnaires.

If the 2010 irrigation questionnaires are received prior to April 9, 2011 the suspension will not take effect.

Suspension of a water permit or right means water may not be pumped during the 2011 irrigation season. Consistent with the Board's order, you are not permitted to irrigate in 2011 unless the irrigation questionnaires are submitted by April 9th.

After April 9th, you may petition the Water Management Board to rescind the suspensions. You will need to submit the 2010 irrigation questionnaires and a letter to our office requesting time on the agenda for the next Water Management Board meeting scheduled for May, 2011 in Pierre, SD. The letter should include your reasons for not completing the 2010 irrigation questionnaires. Decisions of the Board may be appealed to the Circuit Court and State Supreme Court as provided by law.

Water Rights Staff will conduct compliance checks of suspended water rights this summer to determine if irrigation is taking place.

Please contact Genny McMath (605) 773-3352, if you have any questions.

CERTIFICATION

I hereby certify that on March 10, 2010, I have personally deposited with the United States mail at Pierre, South Dakota, first class postage, prepaid envelope(s) containing a Notice dated March 10, 2011 regarding cancellations and suspensions addressed as stated below:

One year suspension:

No. 592-1

Zearl Drum, PO Box 203, Faith SD 57626

Nos. 5222-3 and 6874-3

Clayton Kern, Supt, McCook Country Club, PO Box 129, Salem SD 57058

No. 3937-3

Wendell Schubloom, 20608 Hwy 25, DeSmet SD 57231

No. 5257-3

Wayne L Bertrand, Scotland Golf Club Inc, Box 488, Scotland SD 57059

Nos. 6426-3 & 6507-3

Terrill Wheeler, 16645 416th Ave, Raymond SD 57258

Three Year Suspension

No. 1080-2

Larry Schell, Schell Ranch, 22955 Jensen Rd, Wall SD 57790

Nos. 2696-3A & 4414-3

Donald Schmidt, 19053 427th Ave, Willow Lake SD 57278-6205

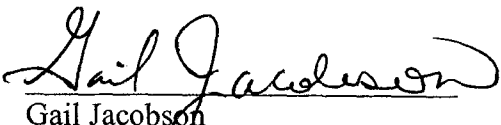
Cancellation

Nos. 1473-2 & 1502-2

Randy Bachelor, 25409 266th Ave, White River SD 57579

No. 5124-3

Victor L Wiczorek, 39507 266th St, Mt Vernon SD 57363



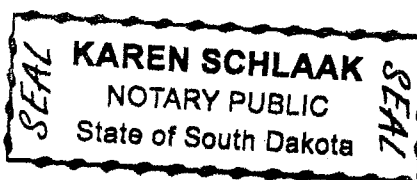
Gail Jacobson
Secretary/Water Rights

STATE OF SOUTH DAKOTA)
) SS
COUNTY OF HUGHES)

Sworn to, before me, this 10th day of March, 2011.



Karen Schlaak
Notary Public
My Commission expires April 1, 2013





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

April 6, 2011

5222-3
6874-3

Trent Sabers, Superintendent
McCook Country Club
PO Box 129
Salem SD 57058

Dear Mr. Sabers:

On March 9th, the Water Management Board ordered Water Permit Nos. 5222-3 and 6874-3 be suspended if the 2010 irrigation questionnaires were not received prior to April 9, 2011. The questionnaire information has been received.

Since the irrigation questionnaires are on file, no violations have occurred and no suspensions will take place. The Country Club may irrigate during the 2011 irrigation season.

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

Sincerely,

Garland Erbele, Chief Engineer
Water Rights Program

Permit No. 5222-3 and 6874-3**Vermillion River - Water District****Report of Examination of Works and/or Application of Water to Beneficial Use**

TO: Chief Engineer, Water Rights Program, DENR, Foss Bldg., Pierre, SD 57501

I have this day, **October 15, 2013**, made a thorough examination of the water use system constructed by **McCook Country Club** of **PO Box 129, Salem, SD 57058** holder of Permit Nos. **5222-3 and 6874-3**, bearing the priority of **July 15, 1988 and August 1, 2007** authorizing the diversion of **0.67** cu. ft. per second and the storage of **82** acre-feet of the waters of **local runoff** and the diversion of **0.44** cu. ft. per second of the waters of **Sioux Quartzite Wash aquifer** for **irrigation** purposes, in **McCook** County.

Inspection contact & relationship to permit holder, if applicable: **Trent Sabers, Course Manager**
605.212.4446

A. Works used to divert the water:**Well Information: authorized by 6874-3**

- 1) Well Drilling Firm: **Steffl Drilling & Pump**
- 2) No. of Wells **1**
- 3) Depth(s) **210** feet
- 4) Well log is available **yes**
- 5) Comment:

Casing:

- 1) Diameter **5** inches
- 2) Length **182** feet
- 3) Type **Plastic**

Screen:

- 1) Type **PVC**
- 2) Length **20** feet
- 3) Static water level **69.58** feet

Pump: well to the dam & tank for bathroom	Pump: dam to the irrigation system
1) Make <u>Submersible</u>	1) Make <u>Gronfos</u>
2) Model	2) Model <u>A96418864-P20515</u>
3) Size	3) Size
4) Capacity <u>50</u> GPM	4) Capacity <u>300</u> GPM
Motor:	Motor:
1) Make <u>Submersible</u>	1) Make <u>Baldor</u>
2) Model No.	2) Model No. <u>SFA 104/52</u>
3) Horsepower rating _____ hp	3) Horsepower rating <u>40</u> hp

Dam Information: authorized by 5222-3

- 1) Height to crest 15 feet
- 2) Height to primary spillway 11 feet
- 3) Height to secondary spillway 12 ft
- 4) Crest width 16 feet
- 5) Crest length 275 feet
- 6) Spillway length 60 feet
- 7) Spillway width 60 feet
- 8) Approx. storage 55 ac-ft
- 9) Approx. storage to crest 80 ac-ft
- 10) Date constructed: 1989
- 11) Name of contractor: Hoiten Construction
- 12) Category: 3 small size dam
- 13) Outlet tubes:
Diameter 36" - *gated*
Type cmp
Valved yes

**B. Works used to transport water to place of use: pvc pipe to sprinkler heads
dam to the main pump**

- 1) Type PVC
- 2) Size 6 inches
- 3) Length 25 feet

C. Works used to apply water to beneficial use:

Sprinkler: to irrigate fairways and greens

- 1) Make Rainbird sprinkler system
- 2) Capacity 300 GPM

Chemigation Equipment:

- 1) Does chemigate NO

D. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by YES
- 2) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period YES
- 3) Exceptions to compliance are: NONE

The system is in good condition with the point(s) of diversion located as follows: The well is 1360' N and 2285' E (43.72076619, -97.40026770) and the pump site is 1675' N and 1945' E (43.72158962, -97.40152361 of the SW corner Section 14-T103N-R55W. The works are capable of diverting and conveying to the place of use 0.11

Report of Examination of Works

Permit Nos. 5222-3 and 6874-3

cu. ft. per second of water from the well and 0.67 cu. ft. per second of water from the dam to the irrigation system. The Dam is capable of storing 55 acre-feet of water which is to be used for irrigation. Water has been put to beneficial use to the maximum extent as follows:

Section 14-T103N-R55W:

NE $\frac{1}{4}$ SW $\frac{1}{4}$ 4 acres

SE $\frac{1}{4}$ SW $\frac{1}{4}$ 12.5 acres

SW $\frac{1}{4}$ SE $\frac{1}{4}$ 13.5 acres

comprising a total of 30 acres of land and the licenses should be issued for:

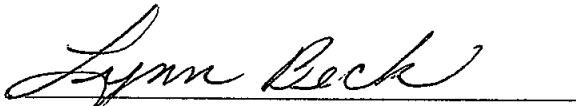
5222-3 - 0.67 cfs and 55 acre-feet of storage to irrigate 30 acres of land.

6874-3 - 0.11 cfs for bathroom and no additional acres.

All structures, wells and lands on map YES

Comments or other permit(s) associated with the project:

Originally 5222-3 authorized two dams, the smaller of the two is no longer in existence and it's capacity is part of the one larger dam still in place. The well authorized by 6874-3 is used to supplement water in the dam during dry periods. Since the permits are for two different water sources they should be licensed separately.



Lynn Beck
Natural Resources Engineer III
DENR, Water Rights Program

Date report completed: November 25, 2013

WATER LICENSE NOS. 6874-3 and 5222-3
McCook Country Club
November 14, 2013



SCALE

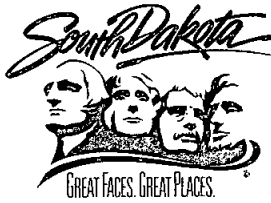
0 660 1,320 2,640 3,960 5,280 Feet

Lynn Beck

Lynn Beck
Natural Resources Engineer III
SD DENR - Water Rights Program



South Dakota
Department of Environment
& Natural Resources
Protecting SD's Tomorrow... Today



DEPARTMENT OF ENVIRONMENT
and NATURAL RESOURCES

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denr.sd.gov



September 4, 2014

5222-3

McCook Country Club
Terry Sabers, Course Manager
PO Box 129
Salem SD 57058

Dear Mr. Sabers:

On October 15, 2013 the investigation of the golf course water use system, including the extent of application of water to beneficial use, as developed under Water Permit Nos. 5222-3 and 6874-3, was completed by Lynn Beck, a staff engineer with our program. The final water right documents, the water license, can now be issued.

State law requires that we charge a \$50.00 fee for the investigation and issuance of the water license. Upon receipt of the \$50.00 fee from you, we will complete processing your water license. The check or money order for the fee should be made payable to the "Water Rights Program". The fee for Water Permit No. 6874-3 was paid at the time the application was filed.

Your licensed water right will be similar to a property right that can not be lost as long as the water use continues and you abide by the permit requirements.

If you have any questions regarding the water permit, investigation of your water use system or payment of the fee, please contact Genny McMath with our program at (605) 773-3352.

Sincerely,

Karen Schlaak

Karen Schlaak
Water Rights Program
(605) 773-3352



6933 1 PP 0.460 *0065862 S1
 WATER RIGHTS PROGRAM
 JOE FOSS BLDG
 523 EAST CAPITOL
 PIERRE SD 57501-3182



* 8021 *

8

McCook Country Club
 PO Box 129
 Salem SD 57058-0129



**Please immediately apply this payment
 in the amount of \$50.00
 to my account: McCook Country Club-Salem**

5222-3 - *License Fee*

RECEIVED

OCT 06 2014

**WATER RIGHTS
 PROGRAM**



RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 10/6, 20 14

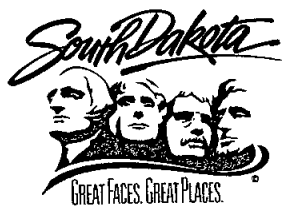
RECEIVED OF McCook Country Club - Salem PO Box 129 Salem SD 57058

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. <u>5222-3</u>		
Fee for Filing Transfer Form _____		
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. **06963**

By *Jane Howard May*
Chief Engineer



DEPARTMENT OF ENVIRONMENT
and NATURAL RESOURCES

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



5222-3 & 6874-3

OCT 28 2014

McCook Country Club
c/o Brent Sabers
PO Box 129
Salem SD 57058

Dear Mr. Sabers:

Enclosed are Water License Nos. 5222-3 and 6874-3. These are the final water right documents completing the process of obtaining a Water Right. Enclosed is the receipt in the amount of \$50.00 which you paid for the investigation and issuance of the Water License No. 5222-3. Also, included with the licenses is a map prepared by the staff engineer who conducted the investigation.

As long as you use the water beneficially, as stated in the Water Licenses, the State Water Laws provide that you have a continuing right to use the water. If you have any questions, please contact our office.

Sincerely,

Jeanne Goodman, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

STATE OF SOUTH DAKOTA
WATER LICENSE NO. 5222-3

(1) McCook Country Club, PO Box 129, Salem SD 57058 made Application No. 5222-3, July 15, 1988 for a water permit to impound 82 acre feet of water annually from runoff (into two storage dams), McCook County, South Dakota for irrigation purposes. Permit No. 5222-3, with a priority date of July 15, 1988 was approved March 2, 1989 and issued for the diversion of water with construction of the described water supply and the application to beneficial use of water completed.

(2) The water supply system has been completed and water applied to beneficial use in accordance with South Dakota State Law. Pursuant to South Dakota Codified Law 46-5-30.1, the holder and/or owner of Water Right No. 5222-3 is issued a license, bearing a priority date of July 15, 1988 to impound 55 acre feet of water annually from runoff. Water is diverted from the dam at a rate of 0.67 cubic feet of water per second (cfs) to irrigate 30 acres of the golf course.

Water may be diverted from a well as authorized by Water Right No. 6874-3 to supplement the dam during dry periods.

The location of the storage dam pump site is 1,675 feet north and 1,945 feet east of the SW corner of Section 14-T103N-R55W (NE 1/4 SW 1/4). The acres authorized for irrigation are as follows:

Section 14-T103N-R55W	NW 1/4 SW 1/4	4.0 acres
	SE 1/4 SW 1/4	12.5 acres
	SW 1/4 SE 1/4	<u>13.5 acres</u>
	Total	30.0 acres

(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Permit No. 5222-3 including the following now applicable qualifications:

- This permit authorizes storage of up to 55 acre-feet annually (*No. 5222-3 originally authorized two dams. The smaller dam is no longer in existence*).
- Low flows as needed for downstream domestic use, including livestock water and prior water rights must be by-passed.
- This permit is approved subject to the irrigation water use questionnaire being submitted each year.
- The statutory limit of 1 cfs per 70 acres may not be exceeded when pumping pursuant to Permit No. 5222-3, unless the time of each water application is reduced to a corresponding equivalent time period and the total amount of water applied does not exceed 24 inches per year.



Jeanne Goodman, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

OCT 28 2014

date





**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 E. CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

May 2, 2024

5222-3

McCook County Club
c/o Trent Sabers
PO Box 129
Salem SD 57058

Dear Mr. Sabers:

I am writing in regard to Water Right No. 5222-3. The water right authorizes diversion of water from two storage dams, at a rate of 0.67 cfs (approx. 300 gallons per minute), for the irrigation of 30 acres in the NW $\frac{1}{4}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$ SW $\frac{1}{4}$, and SW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 14, T103N, R55W.

In reviewing your 2023 irrigation questionnaire, we have found discrepancies in the amount of water used and have some concerns. Enclosed is a copy of your questionnaire for reference purposes.

Water Right No. 5222-3 allows you to use up to 2 acre-feet (ac-ft) (24 inches) of water, per acre, per year. On the questionnaire you reported substantially more water use. The following information is what was reported and what is authorized:

- 30 acres irrigated
- Reported water use – 120.4 ac-ft of water (approximately 48 inches)
- Authorized water use – 60 acre-feet (30 acres x 2 ac-ft per year)

We realize that water use depends greatly on climactic conditions and may vary year to year. However, it is very rare that irrigators come close to the 24 inches per acre that is authorized. Typical water use is between 8 and 12 inches per acre. Often, irrigators do not keep track of their days or hours actually pumped and estimate numbers for the questionnaires in an effort to get them completed and back in on time. While we appreciate returning the forms in a timely manner each year, we need the forms to reflect accurate information to ensure everyone is limiting their use to the amount of water appropriated to them.

The information we receive each year from irrigators across the state is very valuable. The water use data supplied by irrigators is one of the tools we use to help determine whether an aquifer or stream is nearing full appropriation.

If you do in fact apply as much water as claimed on your questionnaire, you are exceeding the limits of your water right and will have to reduce your discharge to stay within the authorized limit. If you simply estimated your water use, we ask that you please ensure the information reported is as accurate as possible. As stated before, the information you provide to us is very valuable. If you have any questions, please contact me.

Sincerely,

Amanda Dewell
Water Rights Program
605 773-3352
Amanda.Dewell@state.sd.us

enclosure