

WATER PERMIT NO. 8393-3

Name of Applicant: Pearl Creek Hutterian Brethren

Address: 21085 415th Ave, Iroquois SD 57353 Phone: 605 546-2452

Amount of Water Claimed: 0.13 cfs Total Acres: NA

Source of Water Supply: groundwater (one well)

Water to be used for: commercial County: Beadle

Type of Waste Disposal System:

Location: ^{4.5}3 miles southwest of Iroquois

PRIORITY Date Received: 2-4-19 Application/License Fee: \$ 700

Corrected Application Received: Period of Annual Use: January 1 – December 31

Remarks: Use in conjunction with the wells authorized by Nos. 5801-3 and 5956-3

Diversion Point: NW 1/4 NE 1/4 Sec 21-T110N-
R59W

Land to be Irrigated: NA

Depth of Well: 960 feet deep

Well Driller:

Remarks:

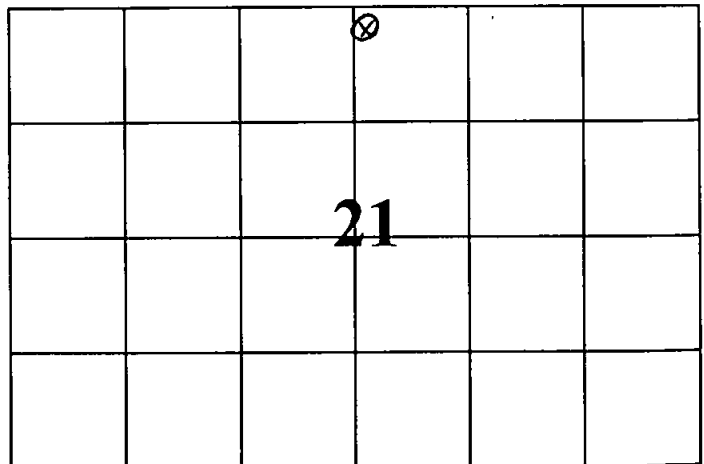
Type of Map: aerial

Prepared by: Keith DeJong

Reviewed and the Number Assigned on: 2-4-19

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____



SOUTH DAKOTA
WATER PERMIT NO. 8393-3

Date of first receipt of application February 4, 2019.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 8393-3 to Pearl Creek Hutterian Brethren, 21085 415th Ave, Iroquois SD 57353 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. 8393-3 appropriates 7.7 acre-feet of water annually at a maximum pump rate of 0.13 cubic feet of water per second from one well to be completed into the Dakota Aquifer (960 feet deep) located in the NW 1/4 NE 1/4 Section 21 for use in a hog confinement operation located in the W 1/2 NE 1/4 Section 21; all in T110N-R59W. This well will be used in conjunction with the two wells (Floyd Pearl Creek Aquifer) authorized by Water Permit Nos. 5801-3 and 5956-3. This site is located approximately 4.5 miles southwest of Iroquois SD.
2. The water appropriated shall be used for the purpose of commercial use and may not exceed the amount of water needed for beneficial use.
3. The water is to be used during the following described annual period: January 1 – December 31.
4. The date of approval of Permit No. 8393-3 is April 22, 2019.
5. The date from which applicant may claim right is February 4, 2019.
6. One-fifth of the construction is to be completed on or before October 22, 2021.
7. All construction is to be completed on or before April 22, 2024.
8. Water is to be put to beneficial use on or before April 22, 2028.
9. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. The well approved under Water Permit No. 8393-3 will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner, under these Permits shall control withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. Water Permit No. 8393-3 is subject to compliance with requirements of the Department's Water Pollution Control Permit issued pursuant to SDCL 34A-2-36 or 34A-2-36.2 or 34A-2-112 or 34A-2-124 for concentrated animal feeding operations.

(continued)

3. Water Permit No. 8393-3 is subject to compliance with all existing and applicable Water Management Board Rules including but not limited to:
 - a) Chapter 74:54:01 Ground Water Quality Standards,
 - b) Chapter 74:54:02 Ground Water Discharge Permit,
 - c) Chapter 74:51:01 Surface Water Quality Standards,
 - d) Chapter 74:51:02 Uses Assigned to Lakes,
 - e) Chapter 74:51:03 Uses Assigned to Streams, and
 - f) Chapter 74:52:01 through 74:52:11 Surface Water Discharge Provisions
4. The Permit holder shall report to the Chief Engineer annually the amount of water withdrawn from the Dakota aquifer.
5. Water Permit No. 8393-3 authorizes a total annual diversion of 7.7 acre feet of water.

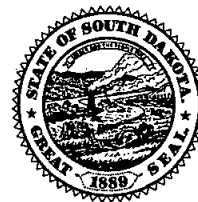
WATER MANAGEMENT BOARD

By: _____

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

MAY 09 2019

date



PAID
FEB 04 2019

RECEIVED
FEB 04 2019
WATER RIGHTS
PROGRAM

Mail to: DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>8393-3</u>	(office use only) Hydrologic Unit	Ck# <u>26245</u>
	Basin <u>James River</u>		<u>10160006</u>
	Newspaper _____		

Application For Permit To Appropriate Water Within The State Of South Dakota

Check use(s) of water:

☐ Municipal	☐ Water Distribution System	☐ Recreational	☐ Institutional
☐ Rural Water System	☐ Commercial	☐ Fish & Wildlife	☐ Geothermal
☐ Domestic (over 18 gpm)	☐ Industrial	☒ Other <u>Hogs</u>	

Type of Application: (check one)

☒ New	☐ Vested Right (Use predates Mar 2, 1955)	☐ Future Use Reservation
☐ Place to Beneficial Use Water Reserved by Future Use Permit No. _____		
☐ Amendment/Correction to Permit No. _____		

Description of amendment/correction: (i.e. change diversion point(s), add diversion point(s), change use, etc.)

1. Name to Appear on Water Permit Pearl Creek Hutterian Brethren

Mailing Address 21085 415th Avenue Iroquois SD 57353
(Address) (City) (State) (Zip Code)

Phone 605-546-2452 Mobile _____ Email _____

2. Amount of water claimed 0.13 *CFS or 60 **GPM and _____ ***AF or _____ Gallons
Flow rate and volume are both required. (*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use)

3. Source of water supply existing well completed into the Dakota aquifer

4. Location of point of diversion NW 1/4 NE 1/4 Section 21-T110N-R59W County Spink Beadle
(example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)

If not a public water supply (e.g. municipal), will water be used outside of the area described above? ☒ Yes ☐ No

If "Yes," where will water be used? W 1/2 NE 1/4 Sec 21-T110N-R59W
(example - NW1/4 section 12-T104N-R53W)

5. County or counties where water will be used Spink Beadle

6. Annual period during which water is to be used January 1 - December 31

7. Give a description of the project. When available include any preliminary engineering report or other reports or information that will help explain the project. (Attach sheet if more space is needed)

Utilize this existing well completed into the Dakota aquifer in conjunction with two wells authorized by Water Permit Nos. 5801-3 and 5956-3 completed in the Floyd/Pearl Creek aquifer to supply a hog confinement facility. The Dakota well produces soft water which works better for some processes in the facility.

I, Math Wallner Sec Treas, the applicant, certify under
Name of Person Title (if applicable)

penalty of perjury that I have read this application, examined the attached map, and that the matters stated are true. I further certify, if acting on behalf of an entity or individual other than myself, that I am authorized to submit this application.

Supplemental Information

(type or print)

1. Well Information

(check one or both as applicable) ☐ Drilling new well(s) ☒ Using existing well(s)

- a) If new wells, how many ____ Have test holes been drilled ☐ Yes ☐ No Drilled by ____
(if yes, please provide copies of logs)
- b) If existing wells, how many 1 Provide copy of log(s), if available. Drilled by ____

For either Existing or Proposed Wells:

- c) Well Depth (required) 960' Depth to Top of Water Bearing Material ____ Depth to Water from Surface ____
- d) Distance to nearest domestic well on applicant's property 1/4 mile Property owned by others 2 1/2 to 3 miles

2. Wastewater Disposal System Information

- a) Type of System (i.e. septic tank, drain field) ____
- b) System Capacity (gallons) ____ Year Constructed ____
- c) Connected to the City of ____ Sanitary System

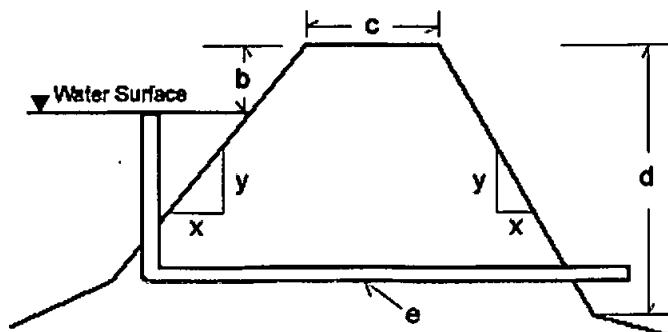
3. Dugout Information

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

4. Water Storage Dams

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

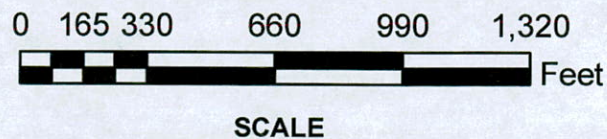
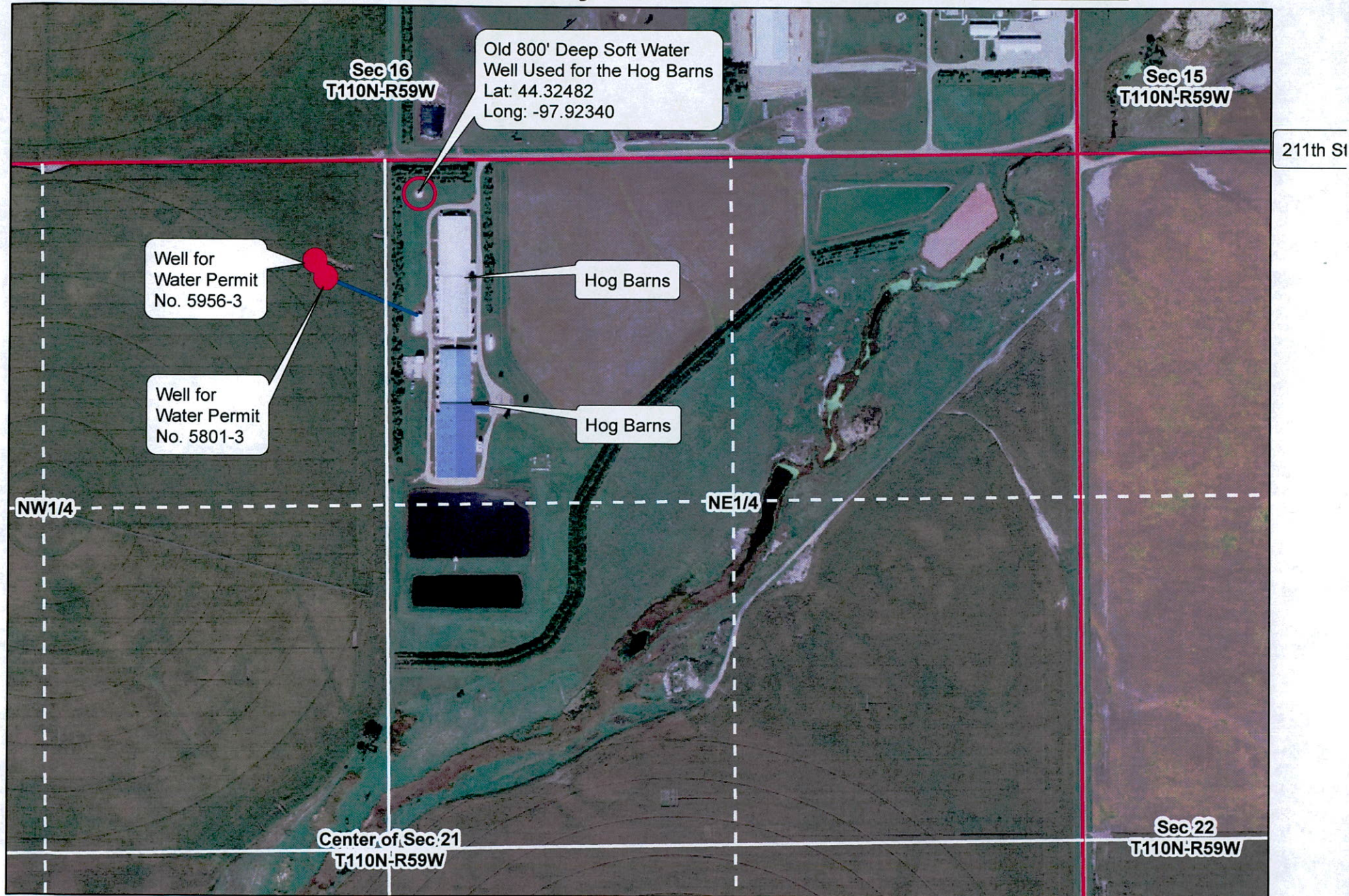
- a) If a private engineering firm or government agency was involved in the design of this dam, please give their name and address:



- b) Freeboard ____
- c) Crest Width ____
Crest Length ____
- d) Height ____
- e) Primary Outlet Capacity ____
If pipe, diameter ____
- f) Secondary Spillway Capacity ____
Spillway Width ____
- g) X & Y Slope (e.g. 3 to 1 is a typical slope)
Upstream ____
Downstream ____
- h) Surface Area of Impoundment ____
- i) Storage ____ Acre Feet
- j) Drainage Area Above Dam ____ Acres

Soft Water Well at Pearl Creek Colony

415th Ave.



Keith DeJong

Keith DeJong, PE
Staff Engineer
December 11, 2018

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date **February 4**, 20 **19**

RECEIVED OF **Pearl Creek Hutterian Brethren c/o Matt Waldner 21085 415th Ave Iroquois SD**
57353

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

Fee for Application for Permit No. <u>8393-3</u> to Appropriate Water, to construct and to put water to beneficial use	500	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>8393-3</u>	200	00
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	700 00

No. **09028**

By *Jeanne Goodman*
Chief Engineer *vm*



530589031

ANNUAL REPORT

South Dakota State Capitol
500 E. Capitol Ave
Pierre, SD 57501-5070
(605) 773-4845

Domestic Nonprofit Corporation
SDCL 47-24-6, 59-11-24

Filing Fee: \$10

2018
FILING YEAR

Please Type or Print Clearly in Ink
Please submit one Original
Make payable to the SECRETARY OF STATE

Total Fee: \$10

1. Business ID and Name:

NS007604
BUSINESS ID

PEARL CREEK HUTTERIAN BRETHERN, INC.
BUSINESS NAME

2. The jurisdiction under whose law it is formed **SOUTH DAKOTA**

3. The address of the principal executive office (business address):

Actual Street Address

21085 415TH AVE
IOQUOIS, SD 57353

Mailing Address

21085 415TH AVE
IOQUOIS, SD 57353

4. The South Dakota Registered Agent's Name:

South Dakota law permits the registered agent to be either (a) a noncommercial registered agent, (b) a commercial registered agent, or (c) an office holder.

(a) The South Dakota Noncommercial Registered Agent's name

Name **JEFFREY T. SVEEN**

Actual Street Address in this State

415 S MAIN ST 400 CAPITOL BLDG
ABERDEEN, SD 57401-4364

Mailing Address in this State

PO BOX 490
ABERDEEN, SD 57402-0490

5. The names and addresses of its principal officers.

Title	Name	Address
President	DAVID WALDNER	21085 415TH AVE., IROQUOIS, SD, 57353
Vice President	CHRISTOPHER WALDNER	21085 415TH AVE., IROQUOIS, SD, 57353
Treasurer	MATT WALDNER	21085 415TH AVE., IROQUOIS, SD, 57353
Secretary	MATT WALDNER	21085 415TH AVE., IROQUOIS, SD, 57353

6. The names and addresses of its directors (governors).

Name	Address
MATT WALDNER	21085 415TH AVENUE, IROQUOIS, SD, 57353
CHRIST J WALDNER	21085 415TH AVE., IROQUOIS, SD, 57353
GEORGE J WALDNER	21085 415TH AVE., IROQUOIS, SD, 57353
DAVID WALDNER	21085 415TH AVE., IROQUOIS, SD, 57353
CHRISTOPHER WALDNER	21085 415TH AVE., IROQUOIS, SD, 57353

MEMORANDUM

Date: December 11, 2018

To: Water Rights Office

From: Keith DeJong

Subject: Soft Water Well at Pearl Creek Colony

On December 4, 2018 I met with Conrad Waldner and another individual at Pearl Creek Colony in regard to completing an inspection to license some of their water rights. During our discussion, the individual in charge of the hog and turkey confinement barns asked me if DENR could use a different name for the well just north of their hog confinement barns. He stated that DENR refers to it as the "South Farm Well" and this is confusing for them since it is now used for the hog confinement facility and is the north well of the three wells serving the hog barns.

He stated that it is an old deep well, possibly around 800 feet deep and it produces soft water. Hard water does not work well in some of their processes, so they use this water for those processes in the facility. They evidently get a yearly report about this well and if it could be called the "North Hog Barn Well" it would be less confusing for them. I told him that it might be an old drinking water well and that I would have the personnel in Pierre check their information to see what they can find out about the well. He did not know if it had been used for drinking water in the past, or exactly how old the well was. He did state that there is a building (shed) over the well.

Attached is an aerial map showing the well shed. The Google Earth GPS coordinates for the shed are latitude 44.32482 and longitude -97.92340. The well is in the NW1/4 of the NE1/4 of Section 21-T110N-R59W, approximately 2,510 feet west and 145 feet south of the NE corner of Section 21 (intersection of 415th Avenue and 211th Street in Beadle County).

Please see what can be found out about this well and if it can be referred to differently than the "South Farm Well".



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

January 22, 2019

denr.sd.gov

Bill Waldner
Pearl Creek Hutterian Brethren
21085 415th Avenue
Iroquois SD 57353

Dear Mr. Waldner:

Last December, Keith DeJong, a water rights inspector with the Department of Environment and Natural Resources (DENR), looked at wells the colony holds water right permits for that are used for irrigation and commercial uses. During the on-site visit, you or another representative of the colony asked if DENR could use a different name for the well just north of the hog confinement barns (see attached map). The well is supposedly referred to by DENR as the "South Farm Well" and the colony would prefer it be referenced to as the "North Hog Barn Well". The well is used in conjunction shallower wells authorized by Water Permit Nos. 5801-3 and 5956-3 to supply the hog barn. This deep well is around 800 feet deep which is completed into the Dakota aquifer. Pearl Creek Colony favors this well for use in the hog barn since it produces "soft water".

I checked with DENR's Drinking Water Program and they indicate this well just north of the hog barn is not a well they regulate. Also I am unable to find a water right in place for this well just north of the hog barn. Therefore, I am unaware of who with DENR is calling this the "South Farm Well". Please let me know what correspondence is sent to the colony referencing it by that name.

Secondly, since the North Hog Barn well is used for commercial purposes in the hog confinement barns a water right permit will need to be obtained. All uses except for the domestic use of water in South Dakota require a water right permit to be in place. The use of the water in a hog confinement barn constitutes a commercial use of water that requires a water right permit.

To help, I have enclosed a partially completed water permit application form for the colony to complete and submit. Pearl Creek Colony will need to fill out Item No. 2 regarding the amount of water claimed. Please state the diversion rate, estimated annual volume of water to be diverted and sign the application. The fee will be \$300 made payable to the Water Rights Program if the diversion rate is less than 45 gallons per minute. If the diversion is greater than 45 gpm, see enclosed instruction sheet for appropriate fee amount. Also included is a self-addressed stamped envelope to submit the application and fee.

Please contact me if you have questions.

Sincerely,

Eric Gronlund
Water Rights Program, DENR
605 773-3352
Eric.gronlund@state.sd.us

enclosure



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

February 8, 2019

Matt Waldner
Pearl Creek Hutterian Brethren
21085 415th Avenue
Iroquois SD 57353

Dear Mr. Waldner:

The Water Rights Program received Pearl Creek Hutterian Brethren's water permit application to use the well completed in the Dakota aquifer for the hog confinement facility. However, the application does not include an estimate of the annual volume to be used from this well.

We recognize that estimating the annual volume may be difficult. The application indicates the pump rate from the well is 60 gallons per minute. Ways to determine the annual volume is:

- to estimate the average gallons of water used from the well on a daily basis and multiply 365 days.
- estimate the amount of time the well exercised each day and apply the 60 gpm to determine the annual volume. Example if the well is operated on average three hours per day: $3 \text{ hours/day} \times 60 \text{ gpm} \times 60 \text{ minutes/hour} \times 365 \text{ days/year} = 39.5 \text{ million gallons/year}$.

The annual volume should be reasonable but the colony will want to be sure to be a little on the high side as opposed to underestimating water use from the well.

Please complete the enclosed sheet and return in the self addressed stamped envelope. Feel free to call me if you want to talk through estimating annual water use. I had tried calling a number of times but was unsuccessful getting a hold of you.

Sincerely,

Eric Gronlund COPY

Eric Gronlund
Water Rights Program, DENR
605 773-3352
Eric.gronlund@state.sd.us

enclosure

Pearl Creek Hutterian Brethren's water permit application for Dakota well used to supply hog confinement facility.

ESTIMATED ANNUAL WATER USE IN GALLONS OF WATER FROM THE DAKOTA WELL

_____ GALLONS PER YEAR

Return to Eric Gronlund, Water Rights Program, DENR 523 E Capitol Avenue, Pierre SD 57501

Water Rights Program - DENR
Conversation File Documentation

NAME OF PERSON OR FILE: Application No. 8393-3, Pearl Creek Colony

ADDRESS: 21085 415th Avenue, Iroquois SD COUNTY: Beadle County

DATE: February 28, 2019 TELEPHONE:

RE: call from Matt Waldner

Mr. Walder called to request this application be quantified with an annual volume of 2.5 million gallons annually. This equates to 7.7 acre feet of water annually.

NAME: Eve Stonley



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
<http://denr.sd.gov>

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 8393-3, Pearl Creek Hutterian Brethren**

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Program, Department of Environment and Natural Resources concerning Water Permit Application No. 8393-3, Pearl Creek Hutterian Brethren, c/o Matt Waldner, 21085 415th Avenue, Iroquois SD 57353.

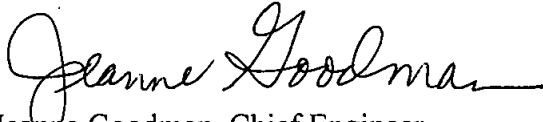
The Chief Engineer is recommending APPROVAL of Application No. 8393-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and, 4) it is in the public interest with the following qualifications:

1. The well approved under Water Permit No. 8393-3 will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner, under these Permits shall control withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. Water Permit No. 8393-3 is subject to compliance with requirements of the Department's Water Pollution Control Permit issued pursuant to SDCL 34A-2-36 or 34A-2-36.2 or 34A-2-112 or 34A-2-124 for concentrated animal feeding operations.
3. Water Permit No. 8393-3 is subject to compliance with all existing and applicable Water Management Board Rules including but not limited to:
 - a) Chapter 74:54:01 Ground Water Quality Standards,
 - b) Chapter 74:54:02 Ground Water Discharge Permit,
 - c) Chapter 74:51:01 Surface Water Quality Standards,
 - d) Chapter 74:51:02 Uses Assigned to Lakes,
 - e) Chapter 74:51:03 Uses Assigned to Streams, and
 - f) Chapter 74:52:01 through 74:52:11 Surface Water Discharge Provisions

(continued)

4. The Permit holder shall report to the Chief Engineer annually the amount of water withdrawn from the Dakota aquifer.
5. Water Permit No. 8393-3 authorizes a total annual diversion of 7.7 acre feet of water.

See report on application for additional information.

A handwritten signature in black ink, reading "Jeanne Goodman". The signature is written in a cursive, flowing style with a horizontal line at the end.

Jeanne Goodman, Chief Engineer
April 1, 2019

REPORT TO THE CHIEF ENGINEER

Water Permit Application No. 8393-3

Pearl Creek Hutterian Brethren

April 1, 2019

Water Permit Application No. 8393-3 proposes to appropriate 7.7 acre-feet of water per year at a maximum instantaneous diversion rate of 0.13 cubic feet per second (cfs). The diversion point for this application is one existing well (960 feet deep) completed into the Dakota aquifer and located in the NW ¼ NE ¼ Sec. 21 T110N-R59W, approximately 4.5 miles southwest of Iroquois, SD in Beadle County. The water is for commercial use in a hog confinement facility located in W ½ NE ¼ Sec. 21 T110N-R59W.

AQUIFER: Dakota (DKOT)

HYDROGEOLOGY

The Dakota Formation is defined as the first relatively continuous sandstone below the Greenhorn Limestone and extending downward to the top of the Skull Creek Shale (Schoon, 1971). The Skull Creek Shale is not continuous in Eastern South Dakota; where the shale is absent the Dakota Formation directly overlies Precambrian bedrock or the Inyan Kara Group (Schoon, 1971). Within South Dakota, the Dakota Formation has been subdivided into three units (Schoon, 1971). The upper unit is a light-brown to reddish-brown, fine to medium grained friable sandstone with interbedding of gray to dark-gray shale and thin, discontinuous beds of lignite in the lower part of the upper unit. The middle unit consists of gray silty clay with small siderite pellets disseminated throughout. The lower unit is a medium to coarse grained sandstone.

The Dakota aquifer is comprised of the porous and permeable portions of the Dakota Formation and is a confined bedrock aquifer throughout most of South Dakota. The Dakota Formation has been found to reach thicknesses ranging between 0 and 550 feet within Beadle County (Hedges, 1968). Schoon (1971) estimated the Dakota aquifer underlies approximately 66,500 square miles in South Dakota with an average thickness of at least 150 feet. The amount of water in storage within the Dakota aquifer can be estimated by assuming a conservative porosity value of 15% (Schoon, 1971), and multiplying the porosity, the average thickness, and the areal extent of the aquifer together, resulting in at least 0.96 billion acre-ft of water in storage. Hedges et al. (1982) also used a porosity value of 15% and determined that there is over 381 million acre-ft of recoverable water in storage in the portion of the Dakota aquifer that lies east of the Missouri River in South Dakota. On the county level, the Dakota aquifer is estimated to have 18,000,000 acre-ft of recoverable water in Beadle County (Hedges et al., 1982).

Nearby well completion reports for wells completed into the Dakota aquifer show that the static water level at the time of their completions was less than 100 feet below ground surface, with the aquifer being encountered at a depth greater than 700 feet (Water Rights, 2019b). No well completion report is on file for this Dakota aquifer well, and one was not submitted with the application.

South Dakota Codified Law 46-2A-9

Pursuant to SDCL 46-2A-9, a permit to appropriate water may be issued only if there is reasonable probability that there is unappropriated water available for the applicant's proposed use, that the proposed diversion can be developed without unlawful impairment of existing rights and that the proposed use is a beneficial use and in the public interest. This report will address the availability of unappropriated water and existing rights within the Dakota aquifer.

WATER AVAILABILITY

The probability of unappropriated water available from an aquifer can be evaluated by considering SDCL 46-6-3.1, which requires "No application to appropriate groundwater may be approved if, according to the best information reasonably available, it is probable that the quantity of water withdrawn annually from a groundwater source will exceed the quantity of the average estimated annual recharge of water to the groundwater source." If the source of the water is older than or stratigraphically lower than the Greenhorn Formation and a water distribution system has applied for a permit, the Board need not take into consideration the balance of aquifer recharge and withdrawal. Here, the water source is older and lower than the Greenhorn Formation, however a water distribution system is not involved. Therefore, the balance of withdrawal and recharge must be considered.

Hydrologic Budget

Recharge

Recharge to the Dakota aquifer in Beadle County occurs through migration of groundwater from underlying aquifers and inflow from adjacent counties. As the physical properties of the aquifers and the actual areas where these aquifers are in contact with each other are both relatively unknown, an estimate of the average annual recharge to the Dakota aquifer has not been calculated. There are three different water chemistries for water within the Dakota aquifer depending upon their source of recharge (Schoon, 1971). The water chemistry that has been identified in the area of these applications indicates that the recharge to the Dakota aquifer in this area is likely coming from the Fall River Formation, the uppermost unit of the Inyan Kara Group (Schoon, 1971).

Discharge

Discharge from the Dakota aquifer in Beadle County occurs through well withdrawals, uncontrolled flowing wells, and outflow to adjacent counties. Currently, there are 236 Water Rights/Permits appropriating water from the Dakota aquifer within South Dakota, excluding 6 future use permits (Water Rights, 2019a). Table 1 shows a summary of Water Rights/Permits with their limiting appropriation and estimated annual expected use. The amount of water that can be expected to be withdrawn can be estimated by assuming water rights/permits limited by an annual volume will pump the entire volume appropriated annually, water rights/permits limited only by diversion rate will pump at the maximum permitted diversion rate 60 percent of the time, and future use permits will be fully developed.

Exceptions to those typical estimated use assumptions do exist. Water rights/permits for irrigation are typically required to report their use annually, however for this report, the estimated use from irrigation was estimated assuming that turf irrigation will use 2 acre-ft per acre, and crop irrigation will apply 10 inches (0.83 acre-ft per acre). Municipal water rights/permits that were identified as being connected to rural water systems had their estimated

use set to zero, as those municipalities have typically maintained a well for backup or emergency use and use a negligible amount of water. Non-irrigation water rights/permits that are required to report their annual usage had their estimated usage calculated by averaging their reported use over the period of 2003 to 2017 (Water Rights, 2003-2017).

There are six future use permits that have reserved water from the Dakota aquifer (Water Rights, 2019a). The City of Canton has 1,849 acre-ft reserved, the City of Lennox has allocated the water they had reserved, South Lincoln Rural Water System has 1,448 acre-ft reserved, and Lincoln County Rural Water System has 440 acre-ft reserved. In total, future use permits reserve 3,737 acre-ft of water from the Dakota aquifer. It is assumed that future use permits will eventually be fully utilized.

Table 1: Summary of the limiting appropriation and expected use of water rights/permits excluding future use permits (Water Rights, 2019a)

Use Type	No. of Water Rights/Permits	Appropriation for Water Rights/Permits limited by volume (ac-ft/yr)	Appropriation for Water Rights/Permits limited by pumping rate (cfs)	Expected Use (ac-ft/yr)
RWS	8	2,005.00	3.310	1,875.20
SHD	7		2.220	933.91
REC	2		0.450	195.47
COM	96	501.90	12.535	5,455.84
DOM	11	72.00	1.583	710.09
FWP	4	40.00	2.563	1,208.87
GEO	2		2.330	1,012.10
IRR	18	2,461.92		1,435.93
INS	2		1.340	582.07
IND	5	160.00	0.844	526.62
MUN	89	5,758.00	30.390	4,356.71
Total	244	10,998.82	57.565	18,292.81
RWS = Rural Water Supply, SHD = Suburban Housing Development, REC = Recreation, COM = Commercial, DOM = Domestic, FWP = Fish & Wildlife Propagation, GEO = Geothermal, IRR=Irrigation, INS = Institutional, IND = Industrial, MUN =Municipal				

There are a number of domestic wells on file that withdraw water from the Dakota aquifer, however the magnitude of their withdrawals is small, and since the introduction of rural water systems, many of these wells may no longer be in use (Water Rights, 2019b). The annual quantity of water withdrawn for domestic uses is considered to be negligible to the hydrologic budget of the aquifer. It is currently unknown how much water is being discharged from the Dakota aquifer through uncontrolled flowing wells. The flow from these wells is discussed later on in this report.

Hydrologic Budget

The estimated appropriative withdrawals from the Dakota aquifer are 18,292.81 ac-ft/yr from non-irrigation and irrigation users. Including an estimated 7.7 ac-ft/yr from this application, and

3,737 ac-ft/yr from the future use reservations, the estimated average annual withdrawal from the Dakota aquifer in South Dakota is 22,037.51 ac-ft/yr.

The estimated annual recharge to the Dakota aquifer has not been quantified. As there are wells that are drilled into the Dakota aquifer that continue to flow at the ground surface, it is likely that there are still uncontrolled flowing wells that are allowing water to flow to waste.

The estimated annual withdrawals equate to less than 0.01 percent of the available water in storage. Due to the relatively small development of this large resource, leakage from underlying aquifers, and groundwater flowing to waste, there is reasonable probability unappropriated water is available from the Dakota aquifer for the proposed appropriation.

Observation Well Data

In determining the availability of unappropriated water for a permit application Administrative Rule 74:02:05:07 requires the Water Management Board to rely on the record of observation well measurements, in addition to other data, to determine that the quantity of water withdrawn annually from the aquifer does not exceed the estimated annual recharge.

The Water Rights Program monitors 46 observation wells completed in the Dakota aquifer (Water Rights, 2019c). The nearest observation well is HD-87A, located approximately 42 miles west of the well location. The next nearest observation well, AU-89A, is located over 58 miles to the southwest.

In addition to the observation well hydrographs, a record of the potentiometric surface is known through historical accounts. Schoon (1971) created maps of the potentiometric surface using data modified from Darton (1909), from the State Engineer's office for the period 1914-1915, and a compilation of several reports over the period of 1936 to 1953. Wells that have been completed into the Dakota aquifer within the past 20 years and located near the proposed location were used to approximate the current conditions (Water Rights, 2019b).

Table 2: Summary of historical water levels near the application location

Data Source	Year(s)	Approximate potentiometric surface near application (feet)
Schoon 1971 after Darton	1909	1,540 – 1,550
Schoon 1971, State Engineers Office	1914-1915	1,365 – 1,370
Schoon 1971	1936-1953	1,350 – 1,360
Well Logs Database	1999-present	1,310 – 1,340

While the overall trend in these historical measurements is downward, observation well ED-85A, located 86 miles north-northwest of this application, has recorded a trend that has been stable to slightly increasing over the years 1991-2017, with an aquifer test conducted at the well as the cause for the drawdown that occurred in 2018 (Water Rights, 2019c). Elsewhere in the state, the trend is continuing to slightly decrease, however the rate of that decrease is slowing, indicating that the aquifer may be approaching a new state of equilibrium. Observation well HD-87A has recorded a decline of 20 feet since 1987, and observation well AU-89A has recorded a decline of 13.5 feet since 1989 (Water Rights, 2019c). The observation well data indicates that there is a

reasonable probability that there is unappropriated water available from the Dakota aquifer and that beneficial withdrawals are not exceeding the recharge to the aquifer.

EXISTING WATER RIGHTS

Statewide, there are 244 water rights/permits appropriating water from the Dakota aquifer excluding 6 future use permits (Water Rights, 2019a). The location of the diversion points for water rights/permits authorized to withdraw water from the Dakota aquifer in the vicinity of this application are shown in Figure 1. There are no areas reserved for future use permits within the map boundaries as shown.

There are 4 water rights/permits appropriating water from the Dakota aquifer within 10 miles of this application. The nearest water right/permit is Water Right No. 6167-3, located approximately 1.2 miles east of this application. Water Right No. 6167-3 appropriates 0.145 cfs from one well completed into the Dakota aquifer for commercial use in a turkey confinement facility and is held by the applicant. Vested Water Right No. 4287-3 is held by the City of Iroquois and appropriates 2.5 cfs from two wells completed into the Dakota aquifer. The Town of Yale holds Vested Water Right No. 4274-3, appropriating 0.05 cfs from one well, and Water Right No. 5095-3, appropriating 0.066 cfs from one well, both completed into the Dakota aquifer. These two municipalities are connected to rural water systems, and the annual usage of water from the Dakota aquifer was estimated as negligible.

While the Dakota aquifer is a confined aquifer and drawdown can extend for some distance in a confined aquifer, the drawdown created by the low diversion rate of this application is minimal and will not adversely impact nearby adequate wells. If the annual limit was spread out over the entire year and pumped continuously, the equivalent pump rate would be 4.77 gallons per minute.

The nearest domestic well on record with the Water Rights Program and completed into the Dakota aquifer is located approximately 0.35 miles northeast of Application No. 8393-3. Aside from domestic wells owned by the applicant, the next nearest domestic well completed into the Dakota aquifer is located over two miles away from the diversion point. Domestic water users with adequate wells are unlikely to be adversely impacted by the proposed water appropriations.

In the past, the Water Management Board has recognized that to place water to the maximum beneficial use, a certain amount of drawdown may occur. With no history of well interference complaints from users in the Dakota aquifer in Beadle county, adequate wells are not expected to be adversely impacted if this proposed appropriation is approved.

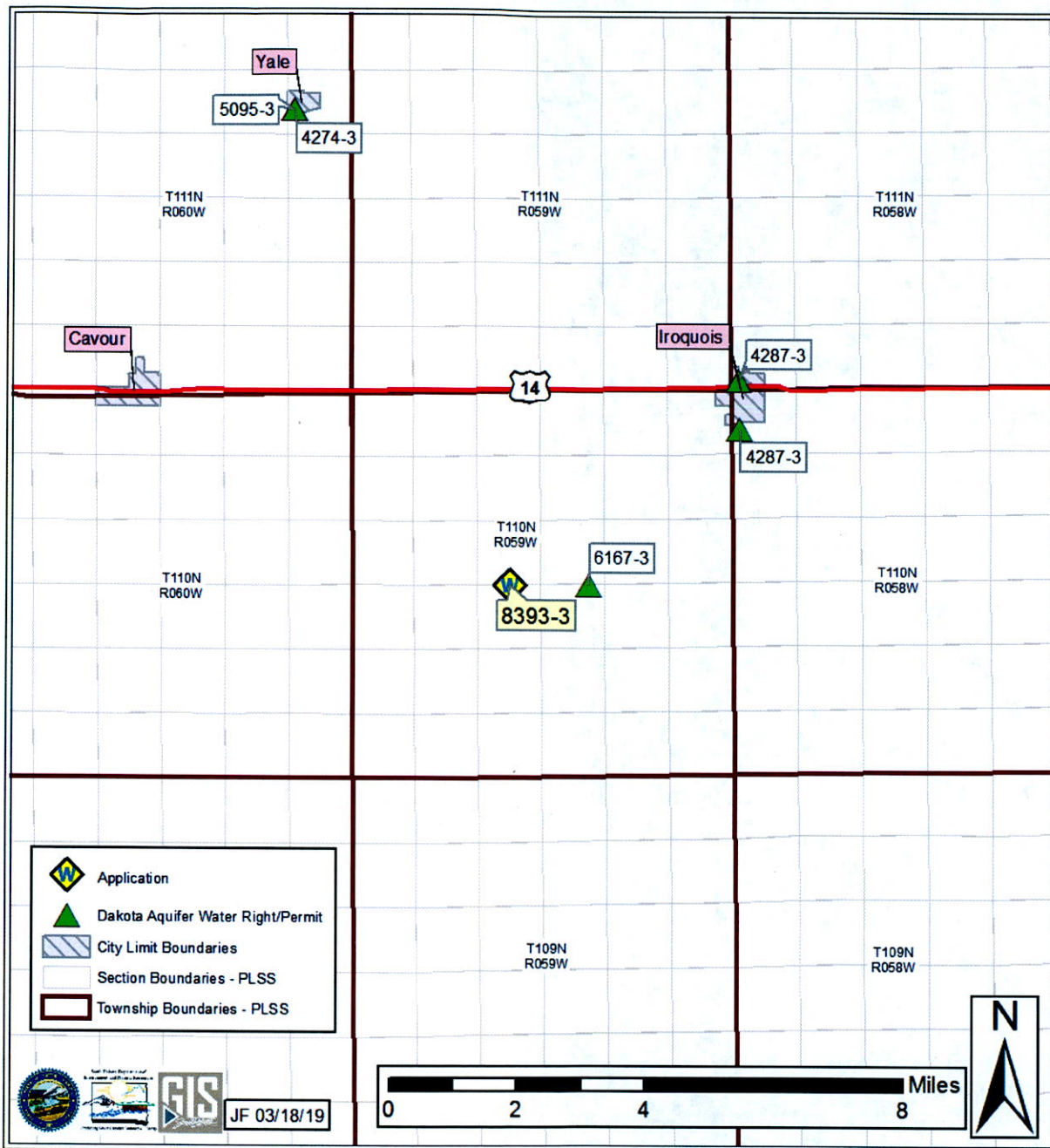


Figure 1: Map of the vicinity of Application No. 8393-3 including Dakota aquifer water rights/permits (Water Rights, 2019a)

Special Consideration: Declining Hydraulic Head

As the Dakota aquifer is a confined aquifer, the hydraulic head causes the water within the aquifer to rise above the top of the aquifer. As soon as wells began penetrating the Dakota aquifer in the late 1800's, a decline in the aquifer's hydraulic head occurred whenever a flowing well was drilled and not properly controlled. These uncontrolled wells essentially created an uncontrolled release of the pressure contained within the aquifer. This decline has caused some concern on whether or not the Dakota aquifer withdrawals have exceeded the recharge to the

aquifer. The Water Management Board has previously and carefully considered the declining head in the Dakota aquifer. In the deliberation and approval of Water Permit No. 5136-3, the Water Management Board approved findings of fact and conclusions of law containing the following summarized points:

- The estimated average annual recharge to the Dakota aquifer is not likely to be quantified in the near future.
- Determination of whether the withdrawals exceed the estimated average annual recharge cannot be determined solely by a decline in the hydraulic head.
- SDCL 46-6-6.1 does not require the artesian head to be protected; however the Board must consider the effect of a limitation or loss of artesian head as one of the factors under the public interest determination.
- The decline in the hydraulic head in the Dakota aquifer has been primarily due to water being discharged through uncontrolled flowing wells.
- "Water discharged from uncontrollable flowing wells does not constitute withdrawal (appropriation) pursuant to SDCL 46-6-3.1."
- That it is in the public interest to appropriate water rather than allow the water to be discharged by uncontrollable flowing wells.
- That it is not in the public interest to deny a water permit application when the effects of the withdrawal will not be measureable and will not have a significant effect upon the decline or stabilization of the hydraulic head in the Dakota aquifer.

Special Consideration: Adequate Wells

An adequate well has been defined in Administrative Rule of South Dakota (ARSD) 74:02:04:20(6) as:

"a well constructed or rehabilitated to allow various withdrawal methods to be used, to allow the inlet to the pump to be placed not less than 20 feet into the saturated aquifer or formation material when the well is constructed, or to allow the pump to be placed as near to the bottom of the aquifer as is practical if the aquifer thickness is less than 20 feet".

It is unclear if the current well meets the definition of an adequate due to the lack of a corresponding well completion report. As such, the alternative well construction method (ARSD 74:02:04:35) is not allowable for commercial uses and any additional or replacement wells for this application shall be constructed to the requirements outlined in the South Dakota Well Construction Standards (ARSD Chapter 74:02:04) for an adequate well completed into a confined aquifer.

CONCLUSIONS

1. Water Permit Application No. 8393-3 proposes to appropriate 7.7 acre-feet of water per year at a maximum instantaneous diversion rate of 0.13 cubic feet per second (cfs) from one well completed into the Dakota aquifer in Beadle County.

2. Based on observation well data and the hydrologic budget, there is reasonable probability that unappropriated water is available from the Dakota aquifer.
3. There is reasonable probability that the diversion proposed by this application will not adversely impact adequate wells for existing water rights and domestic uses.
4. The proposed use of this well is for commercial use, therefore any additional or replacement wells are not allowed to be constructed using the alternative construction requirements that are allowed for domestic use and outlined in ARSD 74:02:04:35.



John Farmer
SD DENR – Water Rights Program

REFERENCES

- Darton, N.H. 1909. Geology and Underground Waters of South Dakota. Water Supply Paper 227. U.S. Geological Survey, Washington D.C.
- Hedges, L.S. 1968. Geology and Water Resources of Beadle County, South Dakota; Part I: Geology. South Dakota Geological Survey Bulletin 18. Vermillion, SD.
- Hedges, L.S., Burch, S. L., Iles, D. L., Barari, R. A., and Schoon, R. A. 1982. Evaluation of Ground-Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota, and Iowa. Task 1: Bedrock Topography and Distribution, Task 2: Extent of Aquifers, Task 3: Ground-Water Storage, Task 4: Computerized Data Base, Final Report. U.S. Army Corps of Engineers Contract DACW 45-80-C-0185.
- Schoon, R.A., 1971. Geology and Hydrology of the Dakota Formation in South Dakota. South Dakota Geological Survey Report of Investigations No. 104. Vermillion, SD.
- Water Rights. 2003-2017. Non-irrigation Water Use Data. SD DENR-Water Rights Program, Joe Foss Building, Pierre, South Dakota.
- Water Rights. 2019a. Water Right/Permit Files. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2019b. Well Completion Report Files. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2019c, "Observation Well Database", SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.

PRINTER'S AFFIDAVIT

STATE OF SOUTH DAKOTA,
COUNTY OF BEADLE: ss

I, MCKENDZIE CASTILLO, being duly sworn on oath say that the PLAINSMAN is a daily paper published at Huron, Beadle County, South Dakota, and that said newspaper has a bona fide circulation of at least 250 copies daily; that said newspaper has been published within said county for fifty-two consecutive weeks immediately prior to this date, that said newspaper is printed in whole or in part, in an office maintained at said place of publication; that I am Legal Advertising Coordinator of said newspaper and know the facts herein state. The annexed notice headed:

PEARL CREEK COLONY- #4197 WATER RIGHTS

was published for one day, in said newspaper, and not in any supplement of the said newspaper, the publication was of the 10TH Day APRIL 2019. That the full amount of the fee charged for publishing THIRY-SEVEN & 29/100 dollars insures to the benefit of the publisher of said newspaper; that no agreement or understanding for the division thereof has been made with any other person, and that no part thereof has been agreed to be paid to any person whom so ever.

Subscribed and sworn to me before this 2ND Day
of MAY 2019.



Notary Public, South Dakota

My term expires 03/11/2022
Legal #4197

RECEIVED

MAY 06 2019

WATER RIGHTS
PROGRAM

F.P. 04-10-19

**NOTICE OF
APPLICATION**

NO. 8393-3 to

Appropriate Water

Notice is given that Pearl Creek Hutterian Brethren, c/o Matt Waldner, 21085 415th Ave, Iroquois SD 57353 has filed an application for a water permit to appropriate 7.7 acre-feet of water annually at a maximum pump rate of 0.13 cubic feet of water per second from one well to be completed into the Dakota Aquifer (860 feet deep) located in the NW 1/4 NE 1/4 Section 21 for commercial use in a hog confinement operation located in the W 1/2 NE 1/4 Section 21; all in T110N-R59W. This well will be used in conjunction with the two wells (Floyd Pearl Creek Aquifer) authorized by Water Permit Nos. 5801-3 and 5956-3. This site is located approximately 4.5 miles southwest of Iroquois SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8393-3 with qualifications because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at <http://denr.sd.gov/public> or contact Eric Gronlund for this information, or other information, at the Water Rights Program address provided below.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E

Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by April 22, 2019.

The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the

signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained.

If the applicant does not contest the recommendation of the Chief Engineer and no petition to oppose the application is received, the Chief Engineer shall act on the application pursuant to the recommendation with no hearing held before the Water Management Board. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

Steven M. Pirker,
Secretary, Department of
Environment and Natural
Resources.

No. 4197 (adv.)
Published once at the
total approximate cost of
\$37.29.

Schlaak, Karen

From: Schlaak, Karen
Sent: Monday, April 01, 2019 2:54 PM
To: rcranidall@plainsman.com
Subject: 8393-3, Pearl Creek Hutterian Brethren
Attachments: 8393-3public.short.docx; FORM8.FRM.doc

Attached is a notice to be published on April 10, 2019.

Pearl Creek Hutterian Brethren, c/o Matt Waldner, 21085 415th Ave, Iroquois SD 57353, (605 546-2452) has been notified to contact you to authorize publication and arrange for payment.

Please send the affidavit or return the attached Proof of Publication form ASAP to the Water Rights Program, 523 E Capitol, Pierre SD 57501.

Let me know if you have questions. Please acknowledge receipt of this email.

Karen Schlaak

SD DENR, Water Rights Program
(605) 773-3352





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

denr.sd.gov

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

April 1, 2019

Pearl Creek Hutterian Brethren
c/o Matt Waldner
21085 415th Ave
Iroquois SD 57353

Dear Mr. Waldner:

Water Permit Application No. 8393-3 for commercial use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Plainsman printed at Huron SD (Ph # 605 353-7414). You will need to contact the newspaper and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Chief Engineer and report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspaper to authorize publication of your Notice and to arrange for payment. Early contact with the paper can eliminate delays. Upon receiving authorization from you, the publisher has been instructed to publish your notice. The newspaper has also been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the application.

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

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

NOTICE OF APPLICATION NO. 8393-3 to Appropriate Water

Notice is given that Pearl Creek Hutterian Brethren, c/o Matt Waldner, 21085 415th Ave, Iroquois SD 57353 has filed an application for a water permit to appropriate 7.7 acre-feet of water annually at a maximum pump rate of 0.13 cubic feet of water per second from one well to be completed into the Dakota Aquifer (960 feet deep) located in the NW 1/4 NE 1/4 Section 21 for commercial use in a hog confinement operation located in the W 1/2 NE 1/4 Section 21; all in T110N-R59W. This well will be used in conjunction with the two wells (Floyd Pearl Creek Aquifer) authorized by Water Permit Nos. 5801-3 and 5956-3. This site is located approximately 4.5 miles southwest of Iroquois SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8393-3 with qualifications because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at <http://denr.sd.gov/public> or contact Eric Gronlund for this information, or other information, at the Water Rights Program address provided below.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by April 22, 2019.

The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained.

If the applicant does not contest the recommendation of the Chief Engineer and no petition to oppose the application is received, the Chief Engineer shall act on the application pursuant to the recommendation with no hearing held before the Water Management Board. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

Steven M. Pirner, Secretary, Department of Environment and Natural Resources. Published once at the total approximate cost of _____.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
<http://denr.sd.gov>

MAY 09 2019

Pearl Creek Hutterian Brethren
c/o Matt Waldner
21085 415th Ave
Iroquois SD 57353

Dear Mr. Waldner:

Enclosed is Water Permit No. 8393-3 authorizing construction of the water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

Form 10, *Notice of Completion of Works and Application of Water to Beneficial Use*, is enclosed. Please return this completed form after you have finished the system and have put the water to beneficial use. An investigation can then be scheduled so the water license may be issued, thus completing the acquisition of a water right.

An informational sheet *Common Water Right Questions?* is also enclosed. This sheet is intended to answer some of the questions associated with obtaining and keeping a water right.

Sincerely,

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

enclosures

RECEIVED

MAY 20 2019

WATER RIGHTS
PROGRAMNOTICE OF COMPLETION OF WORKS AND
APPLICATION OF WATER TO BENEFICIAL USEDate 5-16-19TO: Water Rights Program, DENR
523 E. Capitol
Pierre, SD 57501-3181FROM: Pearl Creek Colony
(name)
21085 415th Ave
(address)
Troquois, SD 57353 605-546-2452
(city, state, zip) (phone)

I have completed the construction of the water use system and I have put the water to beneficial use to the maximum extent it is going to be used.

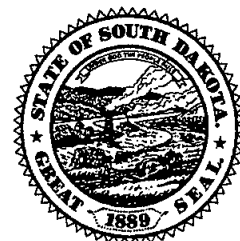
Water Permit No. 8393-3 states that the water use system is to be constructed by April 22, 2024, and water is to be put to beneficial use by April 22, 2028.
(date) (date)

The water use system was completed on 5-1-19.
(date)

Applying the water to beneficial use was completed on 5-1-19.
(date)

You may schedule an investigation so that the water license may be issued.

Matt Waldner
(signature)





DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
<http://denr.sd.gov>

May 21, 2019

8393-3

Matt Waldner
Pearl Creek Colony
21085 415th Ave
Iroquois SD 57353

Dear Mr. Waldner:

I am writing to acknowledge receipt of the "Notice of Completion of Works" form that you sent in to let us know that you are completed with the project authorized under Water Permit No. 8393-3. No. 8393-3 authorizes diversion of water from a Dakota well for use in the colony's hog confinement operation.

The system is now ready for inspection. Inspections are done on a county-by-county basis as staff time permits. You have done everything you need to do and the intervening time between the completion of your project and the staff inspection has no bearing on your water permit.

Someone from our office will contact you prior to the inspection to set up a time that is convenient for you. If you have any questions, please contact me.

Sincerely,

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

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