

WATER PERMIT NO. 8495-3

Name of Applicant: **Justin VandeWeerd**

Address: **46659 205th St, Bruce SD 57220**

Phone: **605 690-4556**

Amount of Water Claimed: **no additional water**

Total Acres: **119 acres**

Source of Water Supply: **one existing well**

Water to be used for: **irrigation**

County: **Brookings**

Type of Waste Disposal System:

Location: **1 mile southeast of Bruce**

PRIORITY

Date Received: **2-18-21**

Application/License Fee: **\$ 950**

Corrected Application Received: **2-26-21**

Period of Annual Use: **May 1 - Sept**

Remarks: **Utilizing well authorized by Water Right No. 7528-3**

Diversion Point: **SW 1/4 SW 1/4 Sec 17-T111N-R50W**

Land to be Irrigated: **SE 1/4 Sec 18-T111N-R50W**

Depth of Well: **75 feet deep**

Well Driller:

Remarks:

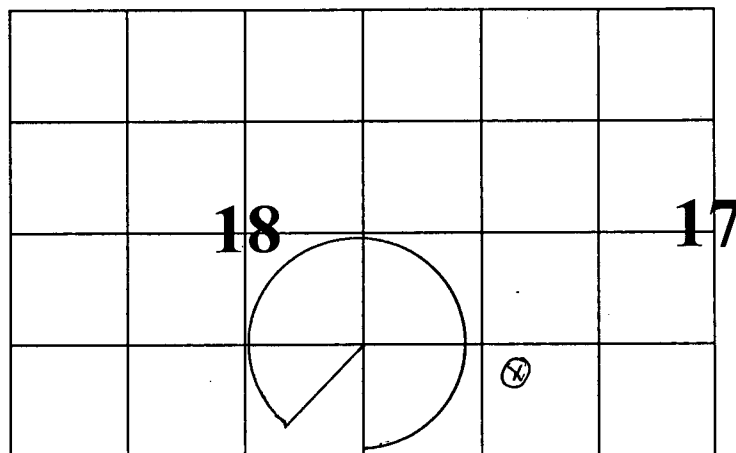
Type of Map: **aerial**

Prepared by:

Reviewed and the Number Assigned on: **2-26-21**

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____



SOUTH DAKOTA
WATER PERMIT NO. 8495-3

Date of first receipt of application February 18, 2021.

Date of return to applicant for corrections, amendments or changes February 18, 2021.

Date of receipt of corrected application February 26, 2021.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 8495-3 to Justin VandeWeerd, 46659 205th St., Bruce SD 57220 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. 8495-3 irrigates 119 additional acres. Water Right No. 7528-3 authorizes 1.75 cubic feet of water per second (cfs) from one well completed into the Big Sioux:North Deer Creek Aquifer (75 feet deep) located in the SW 1/4 SW 1/4 Section 17 for irrigation of 122.3 acres located in the SW 1/4 Section 17; all in T111N-R50W. This permit authorizes irrigation of an additional 119 acres located in the SE 1/4 Section 18-T111N-R50W from the existing well. This permit and Water Right No. 7528-3 will authorize a total of 1.75 cfs for irrigation of 241.3 acres. This site is located approximately 1 mile southeast of Bruce SD.
2. The amount of the appropriation may not exceed 2 acre feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: May 1 – September 30.
3. The date from which applicant may claim right is February 18, 2021.
4. The date of approval of Permit No. 8495-3 is May 24, 2021.
5. One-fifth of the construction is to be completed on or before November 24, 2023.
6. All construction is to be completed on or before May 24, 2026.
7. Water is to be put to beneficial use on or before May 24, 2030.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. The well approved under Water Right No. 7528-3 and for this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

By: *Eric Gronlund*
Eric Gronlund, Chief Engineer
Water Rights Program
Department of Agriculture and Natural Resources

JUN 17 2021

date



RECEIVED

FEB 18 2021

Mail to: DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>8495-3</u>	(office use only) Hydrologic Unit <u>10170202</u>	WATER RIGHTS PROGRAM
	Basin <u>Sioux River</u>		
	Newspaper <u>Brookings Register</u>		

PAID
FEB 18 2021
Ck# 3140

Application For Permit To Appropriate Water For Irrigation

Type of Application: ☒ New ☐ Vested Right ☐ Amendment/Correction to Permit No. _____
(Use predates Mar 2, 1955)

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

1. Name to Appear on Irrigation Permit Justin VandWeerd

Note: The "Name to Appear on Irrigation Permit" must be the name in which the property to be irrigated is held in.

Mailing Address 46659 205th St Bruce SD 57220
(Address) (City) (State) (Zip Code)

Phone 605-690-4556 Mobile _____ Email jvandeweerd@hotmail.com

2. Amount of water claimed no add'l *CFS or 800 **GPM _____ ***AF Total Acreage 119
(*Cubic Feet per Second) (**Gallons per Minute) (***Acre Feet - storage capacity of dam/dugout or annual use if applicable)

3. Source of water supply Existing well permit # 7528-3

4. Location of point of diversion 1000' North 40 degrees east of the SW corner of Sec 17 T11N R50 W
(example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)

(approximate center sw 1/4) (SW 1/4 SW 1/4) County Brookings

5. County or counties where water will be used Brookings

6. Annual period during which water is to be used May 1 - Sept 30

7. List below each forty acre division, or lot, or fraction thereof and show number of acres to be irrigated in each.
(Attach sheet if more space is needed)

Land Description	Acres	Land Description	Acres
NW 1/4 OF THE SE 1/4 OF SEC 18 T11N R50W	33		
NE 1/4 OF THE SE 1/4	33		
SW 1/4 OF THE SE 1/4	20		
SE 1/4 OF THE SE 1/4	33		

8. Give a description of the project. (Attach sheet if more space is needed)

Will be using the existing well in the SW 1/4 of Sect 17 T11N R50W and piping the water approximately 2,200ft the west using 10" pip pipe.

I, Justin VandWeerd, Secretary, 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 Ed Lacy

For either Existing or Proposed Wells:

c) Well Depth (required) 75' Depth to Top of Water Bearing Material 35' Depth to Water from Surface 40'

d) Distance to nearest domestic well on applicant's property _____ Property owned by others _____

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

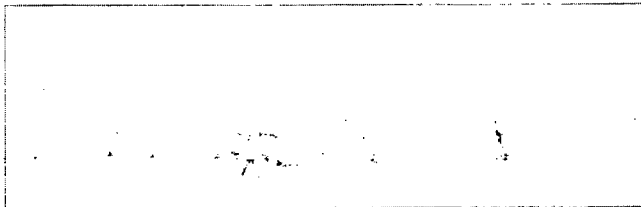
a) Surface Dimensions _____ Depth _____

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)

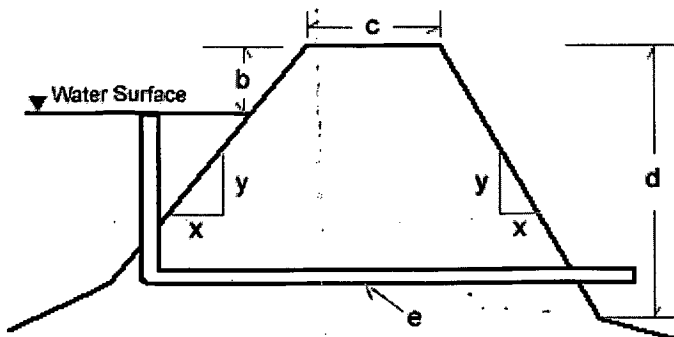
Upstream _____

Downstream _____

h) Surface Area of Impoundment _____

i) Storage _____ Acre Feet

j) Drainage Area Above Dam _____ Acres



Legend

 EXISTING WELL

PP_SS 18_111N_50w

 EXISTING WELL PERMIT # 7528-3

Google Earth

© 2021 Google



3000 ft

111N 51W
Section: 12

111N 50W
Section: 07

111N 50W
Section: 08

111N 51W
Section: 13

111N 50W
Section: 18

111N 50W
Section: 17

Well

111N 51W
Section: 24

111N 50W
Section: 19

111N 50W
Section: 20

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date February 18, 2021

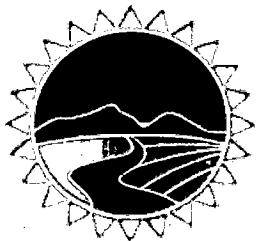
RECEIVED OF LJ Farms LLC 46659 205th St Bruce SD 57220

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

Fee for Application for Permit No. <u>8495-3</u> to Appropriate Water, to construct and to put water to beneficial use	\$750.00
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>8495-3</u>	\$200.00
Fee for Filing Transfer Form _____	\$
Fee for _____	\$
Fee for Issuing New Well Driller's License No. _____	\$
Fee for Renewal of Well Driller's License No. _____	\$
Fee for Issuing Well Pump Installer's License No. _____	\$
Fee for Renewal of Well Pump Installer's License No. _____	\$
(Any Other Work Provided by Law) TOTAL	\$950.00

By Eric Gronlund
Chief Engineer

VM



DENR
SOUTH DAKOTA

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

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FEB 26 2021

**WATER RIGHTS
PROGRAM**

February 18, 2021

Justin VandeWeerd
46659 205th St
Bruce SD 57220

Dear Mr. VandeWeerd:

Thank you for submitting the *Application for a Permit to Appropriate Water* for irrigation in Brookings County. In order to complete the application, the following is required.

- Enclosed is the aerial photo map for the location of your irrigation project with the sections identified. On the map, please outline the 119 acres you are proposing to irrigate. Also, mark the well location with an "X".
- Your application requests 800 gallons per minute (gpm) which is the same amount authorized by Water Right No. 7528-3. Since you are proposing to use the same well, I am assuming you will be utilizing the well on a rotating basis. Is this correct?

If you have any questions, please contact me.

Sincerely,

Karen Schlaak

Karen Schlaak
Water Rights Program
605 773-3352
karen.schlaak@state.sd.us

enclosure



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FEB 26 2021

WATER RIGHTS
PROGRAM

Karen,

We do plan to use the well on a rotating basis from the SW $\frac{1}{4}$ of section 17 (located with an x).

If you have any additional questions, please call me at 605-690-4556.

Thank you,

Justin Vande Weerd.

Schlaak, Karen

From: Schlaak, Karen
Sent: Tuesday, May 4, 2021 9:01 AM
To: jvandeweerd@hotmail.com
Subject: Water Permit Application No. 8495-3
Attachments: 1146.pdf

Attached is a copy of the report, chief engineer recommendation and information regarding the public notice for your water permit application. As stated in the letter, please contact the paper as soon as possible to authorize publication and arrange for payment. This information is being mailed to you today.

Karen Schlaak
DANR - Water Rights Program
(605) 773-3352
Website: <https://danr.sd.gov>





**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 8495-3, Justin Vande Weerd**

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. 8495-3, Justin Vande Weerd, 46659 205th St, Bruce SD, 57220.

The Chief Engineer is recommending APPROVAL of Application No. 8495-3 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 Right No. 7528-3 and for this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

See report on application for additional information.

Eric Gronlund, Chief Engineer
May 3, 2021

Report to the Chief Engineer
Water Permit Application No. 8495-3
Justin VandeWeerd
April 20, 2021

Water Permit Application No. 8495-3 proposes to appropriate water for the irrigation of 119 additional acres in the SE $\frac{1}{4}$ Section 18-T111N-R50W from one existing well completed into the Big Sioux: North Deer Creek aquifer authorized by Water Right No. 7528-3. Water Right No. 7528-3 authorizes 1.75 cubic feet of water per second (cfs) from one well completed into the Big Sioux: North Deer Creek aquifer located in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 17 for the irrigation of 122.3 acres in the SW $\frac{1}{4}$ Section 17 all in T111N-R50W. This application, if approved, and Water Right No. 7528-3 combined will authorize a total 1.75 cfs for irrigation of 241.3 acres. This site is located approximately 1 mile southeast of Bruce, SD.

Aquifer: North Deer Creek management unit of the Big Sioux aquifer (BS: NDC)

Hydrogeologic Information and Aquifer Characteristics

The Big Sioux aquifer is a shallow, glacial aquifer that underlays the Big Sioux River Valley and many of its tributaries (Koch, 1980). It is made up of very permeable, well-sorted glacial outwash sand (mostly medium to very coarse) and gravel (mostly very fine to medium) that overlies a relatively impermeable glacial till (Hamilton, 1989 and Koch, 1980). Near the Big Sioux River and major tributaries, the aquifer is under unconfined conditions; elsewhere it can underlie glacial till and be under confined conditions (Hamilton, 1989).

The area of the North Deer Creek management unit of the Big Sioux aquifer (Big Sioux: North Deer Creek) (as mapped by Hedges et al. (1982)) is approximated at 5,700 acres with an estimated 6,840 acre-feet of recoverable water. Hedges et al. (1982) also makes note of several areas in Brookings County where additional groundwater could be potentially located that were not included in the report's estimated aquifer areas due to data limitations. One of these areas is located adjacent to the area mapped by Hedges et al. (1982) as the North Deer Creek management unit. Hamilton (1989) and additional drilling confirms the presence of surficial groundwater resources in that area (Water Rights Program, 2021a and 2021c). As additional development has occurred in this area, water rights/permits wells have been assigned to the North Deer Creek management unit based on extending the management unit of Hedges et al. (1982) to the hydraulically connected upgradient area (Water Rights, 2021b). The management unit as mapped by Hedges et al. (1982) and the additional area are shown in Figure 1. The additional area as mapped in Figure 1 covers an area of about 8,320 acres for a total area of 14,020 acres.

The Big Sioux: North Deer Creek aquifer is primarily unconfined but localized confined condition can occur within the aquifer, especially near the edges of the aquifer where the sands and gravel to the aquifer can be overlain by glacial till (Water Rights, 2021a and 2021a). Water movement in the aquifer is generally toward the southwest where the North Deer Creek management unit is connected to the Brookings management unit of the Big Sioux aquifer (Hedges et al., 1982).

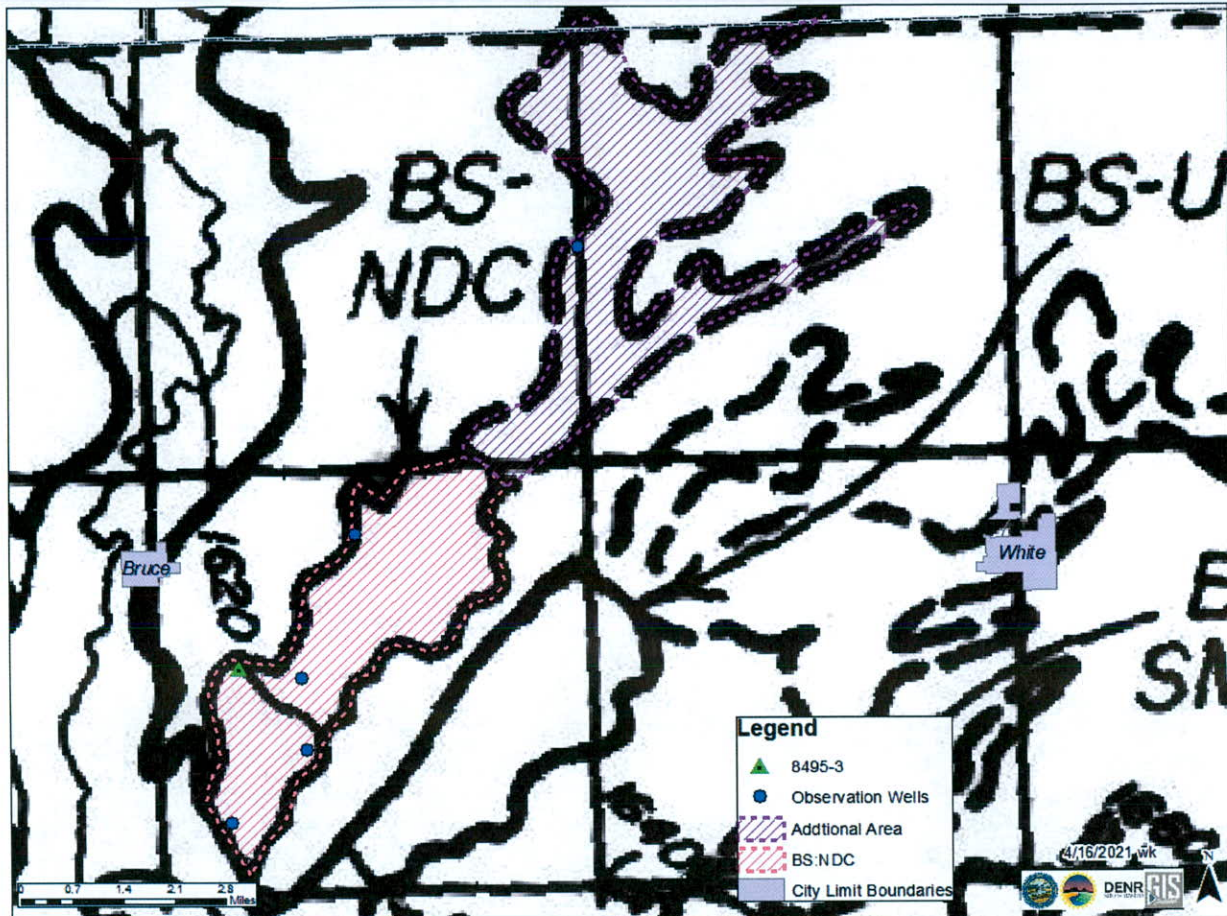


Figure 1: Big Sioux: North Deer Creek aquifer as mapped by Hedges et al. (1982) and upgradient additional area that has been included as part of the management unit (modified from Hedges et al., (1982). Also shown is the well for this application and the Water Rights Program observation wells monitoring the management unit (Water Rights, 2021b).

Available information for the well for this application is limited. The well depth was estimated at 75 feet deep (Water Rights, 2021a). Based on the available geologic information for the area a 75 ft well at the well location would be completed into the Big Sioux: North Deer Creek aquifer (SDGS, 2021; Water Rights, 2021a and 2021c). The available geologic information also suggests the aquifer at this well could be under either confined conditions or buried unconfined conditions (Schulz, 2004; SDGS, 2021; Water Rights, 2021a).

South Dakota Codified Law (SDCL) 46-2A-9

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

Water Availability

Water Permit Application No. 8495-3 proposes to appropriate water from the Big Sioux: North Deer Creek aquifer for irrigation use. The probability of unappropriated water being 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 or lower than the Greenhorn Formation and the application is for a water distribution system defined in SDCL 46-1-6 (17), the Board need not consider the recharge/withdrawal issue. The Big Sioux: North Deer Creek aquifer is not older or lower than the Greenhorn Formation and this application is not for a water distribution system; therefore, the withdrawal/recharge issue must be considered.

Hydrologic Budget

Recharge

Recharge to the aquifer occurs primarily during the spring from infiltration of snowmelt and precipitation (Hamilton, 1989). In Hedges, et al. (1985) recharge rates for the management units of the Big Sioux aquifer were estimated to range from 2.7 to 6.9 inches per year based on observation well analysis, base flow recession analysis, and computer model analysis. Hedges, et al. (1985) further addresses the Big Sioux: North Deer Creek by estimating recharge based on observation well analysis at 4.9 inches per year. Applying this recharge estimate to the combined area of the management unit (as mapped by Hedges et al., 1982) and the noted additional area in Figure 1, results in an estimated average annual recharge to aquifer of about 5,725 acre-feet per year.

Discharge

Discharge from the aquifer includes evapotranspiration, seepage to surface water, pumping, and groundwater outflow to the Brookings management unit of the Big Sioux aquifer (Hamilton, 1989 and Hedges et al., 1982). Withdrawals from domestic wells are not considered a significant portion of the hydraulic budget for the management unit due to their relatively low diversion rates and the development of rural water systems in the area.

There are currently five water rights/permits appropriating water from this aquifer all of which are for irrigation use (Water Rights, 2021b). Average annual pumping for these water rights/permits estimated from their yearly irrigation questionnaire and the number of reporting years is shown in Table 1. The irrigation for Water Right No. 4981-3 for several different years was reported combined with the irrigation information for several water rights not appropriating water from this management unit, so available information was used to estimate the portion of the reported amount tied to Water Right No. 4981-3.

Table 1: Average Reported Irrigation Use (Water Rights, 1980-2020a & b)					
Permit No.	Status	Permitted Rate (cfs)	Permitted Acres	Average Use (acre feet/yr.)	Years Reporting
3348A-3	LICENSE	1.67	120.00	25.28	29
4252-3	LICENSE	3.12	267.00	107.59	41
4981-3	LICENSE	2.10	147.00	91.21	34
7528-3	LICENSE	1.75	122.30	46.97	7
8217-3	PERMIT	14.57	1020.00	19.45	3

For the four water rights (licensed status) estimated average annual water use is 271 acre-feet per year based on their historic average reported use. Water Permit No. 8217-3 is still with in its five year construction period so average reported pumpage may not be representative of the final constructed system. In the eastern portion of the state, aquifers for which the average application rate per irrigated acre has been quantified have application rates less than ten inches per acre. Using this rate, average annual use for Water Permit No. 8217-3 is estimated to be 850 acre-feet per year. The results in a total estimated average annual appropriative withdrawal from the aquifer of 1,121 acre-feet per year.

Balance

Estimated average annual recharge to the aquifer is approximately 5,725 acre-feet per year. Using an application rate of ten inches per acre estimated average annual use for this application, if approved, is 99 acre-feet per year. Although, given the historic use of Water Right No. 7528-3 the actual average annual use is likely to be less than 99 acre-feet per year. So estimated average annual appropriative withdrawal from the aquifer including this application is 1,220 acre-feet per year. Therefore, there is a reasonable probability that water is available in the Big Sioux: North Deer Creek aquifer to meet the request of this application.

Observation Wells

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 six observation wells completed into the Big Sioux: North Deer Creek aquifer. The observation wells monitoring this aquifer within three miles of the well for this application are shown in Figure Nos. 2 through 6.

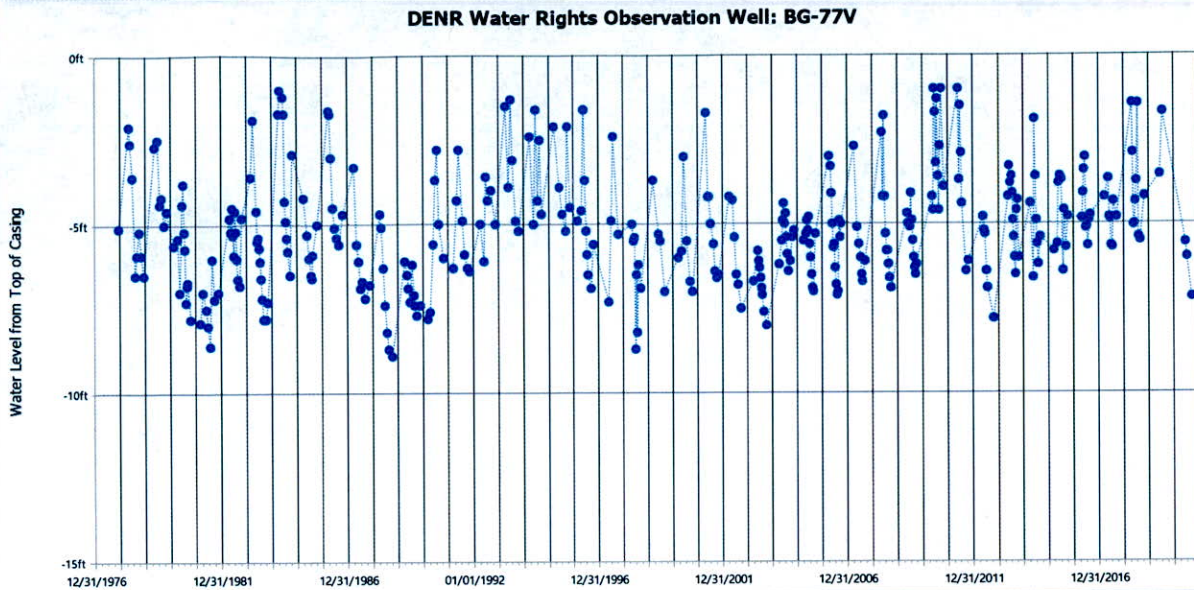


Figure 2: Hydrograph of Observation well BG-77V located 0.86 miles east of the well for this application (Water Rights, 2021a)

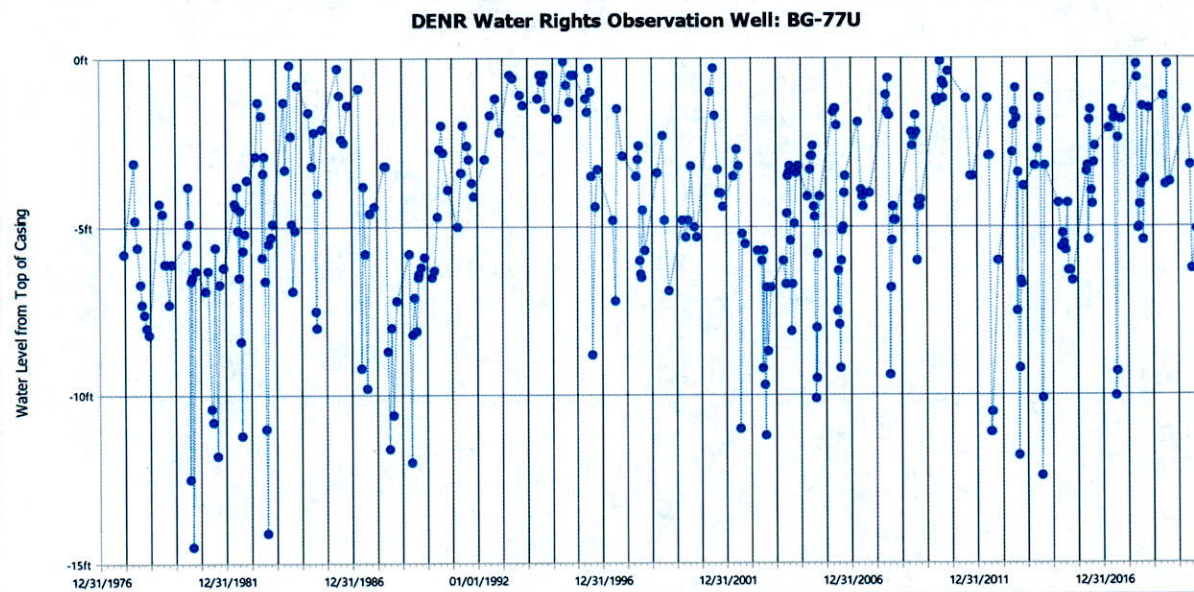


Figure 3: Hydrograph of Observation well BG-77U located 0.86 miles east of the well for this application (Water Rights, 2021a)

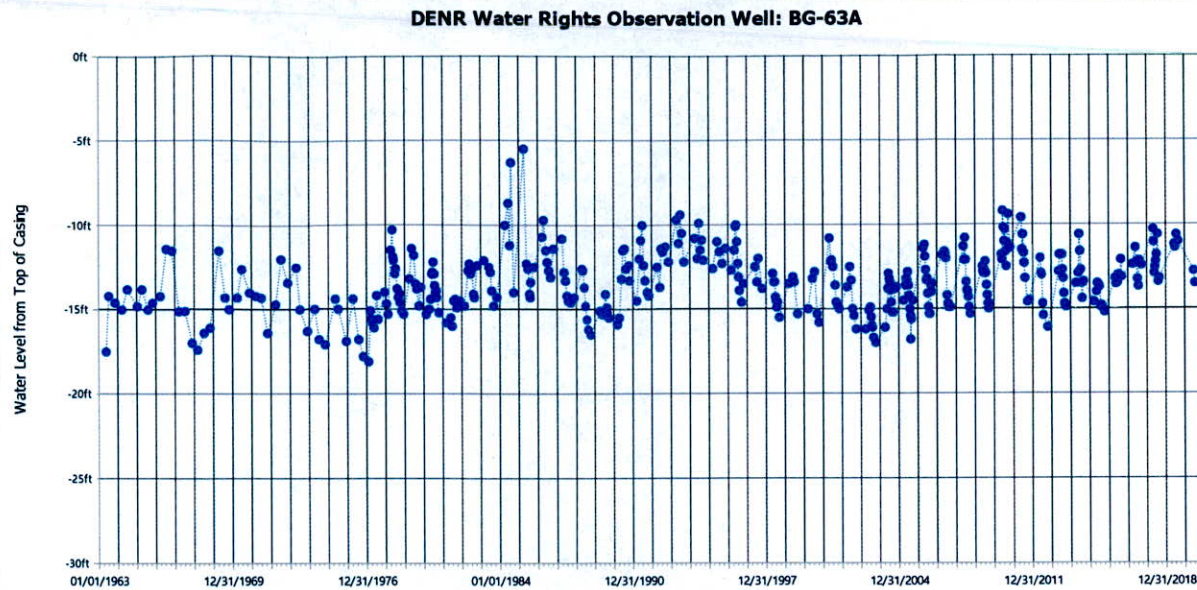


Figure 4: Hydrograph of Observation well BG-63A located 1.5 miles southeast of the well for this application (Water Rights, 2021a)

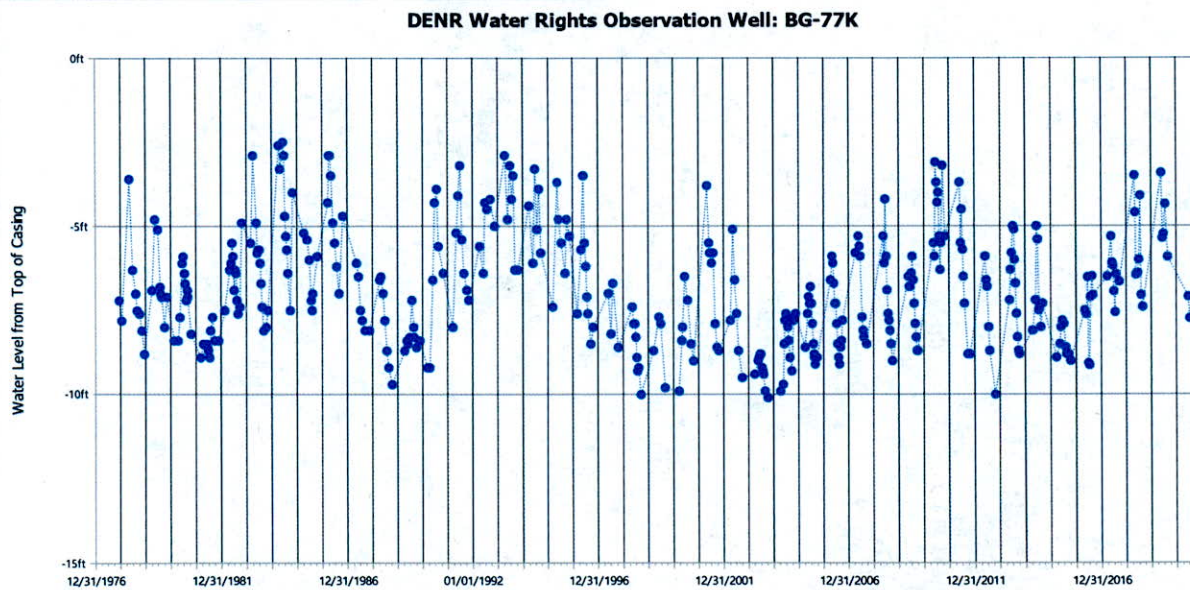


Figure 5: Hydrograph of Observation well BG-77K located 2.2 miles east of the well for this application (Water Rights, 2021a)

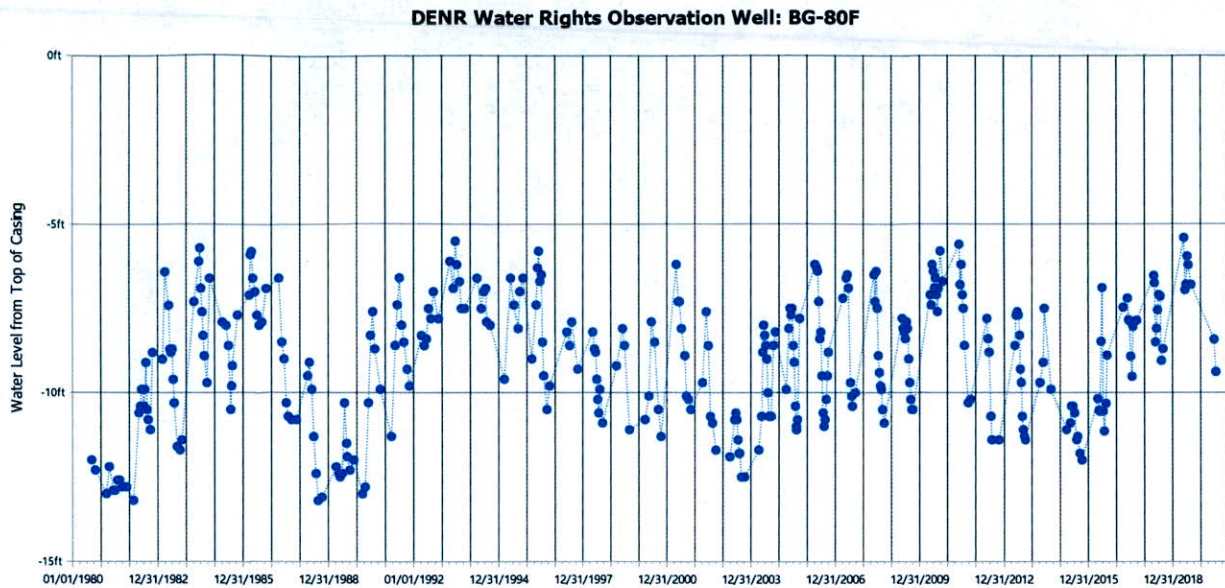


Figure 6: Hydrograph of Observation well BG-80F located 2.5 miles east of the well for this application (Water Rights, 2021a)

The hydrographs in Figure Nos. 2 through 6 are representative of the observation wells in the Big Sioux: North Deer Creek aquifer. Observation wells BG-77V and BG-77U are located in close proximity to each other. These observation wells are completed into the aquifer at different depths and separated by a localized clay layer in the sands and gravels that make up the aquifer. This results in slight difference in the magnitude of water level fluctuations in response to climate, the shallower well (BG-77V) has a greater magnitude of water level fluctuation in comparison to the deeper well (BG-77U). This difference is likely the result of the localized clay layer in the aquifer at these two wells, since a clay layer could somewhat dampen the local response of deeper water levels (below the clay layer) in the aquifer to recharge and evapotranspiration. Water levels in the observation wells monitoring the aquifer generally rise during wet periods and gradually decline during dry periods or remain relatively stable. This indicates that natural conditions govern the aquifer, and recharge to and natural discharge from the aquifer exceeds pumping. Since recharge to and natural discharge from an aquifer can be captured for pumping, there is a reasonable probability that unappropriated water is available from the Big Sioux: North Deer Creek.

Existing Users

The application proposes to use the same well as Water Right No. 7528-3. The nearest water right/permit to the well for Water Right No. 7528-3 is located approximately 0.73 miles north and is Water Right No. 4252-3 held by Vande Weerd Farms for irrigation. The well location for this application and area water rights/permits are shown in Figure 7 and the water rights/permit for this aquifer are summarized in Table 1.

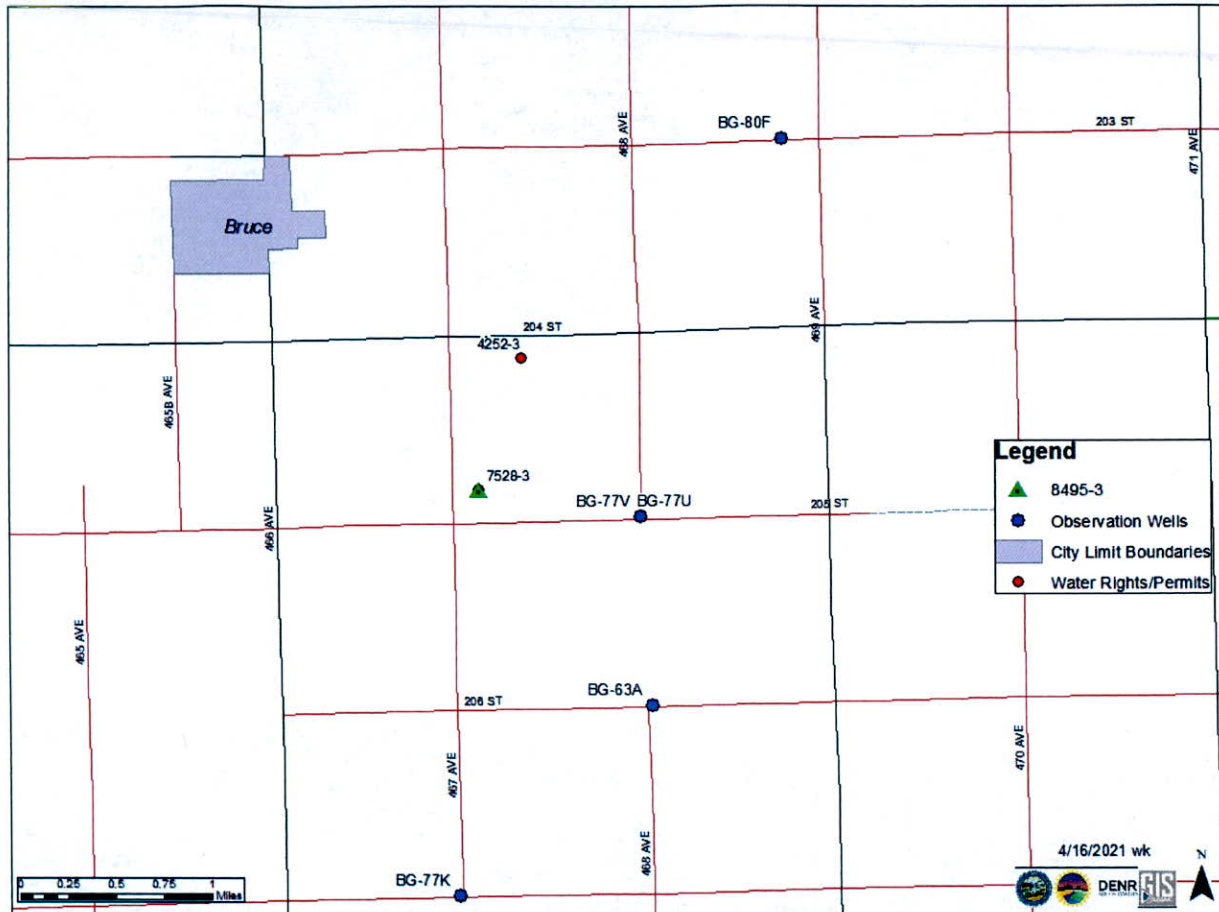


Figure 7: Water rights/permit and observation wells for the Big Sioux: North Deer Creek aquifer in the area of the well for this application (Water Rights, 2021a and 2021b)

Well information for the well for this application is limited, however the available geologic information also suggests that the aquifer at this well could be under either confined conditions or buried unconfined conditions (Schulz, 2004; SDGS, 2021; Water Rights, 2021a). In the past, the Water Management Board has recognized that to place water to maximum beneficial use, a certain amount of drawdown may occur. Hamilton (1989) notes that, “Effects of withdrawals from wells that tap the Big Sioux aquifer generally are small because of extensive recharge and unconfined conditions. Drawdown of water levels is temporary and a few feet at most at distances of about a mile from large-capacity wells.” Additionally, there is no record of well interference complaints associated with Water Right No. 7528-3 (Water Rights, 2021b). Although, the applicant has indicated he plans to operate the well on a rotating basis to irrigate the acres for this application and Water Right No. 7528-3 (two separate pivots), will likely result in longer pumping times to supply the additional acres this application proposes to irrigate. So, theoretically with an increase in pumping time, some increase in drawdown from the pumping well would be expected. However, in looking at the hydrographs of observation wells BG-77V and BG-77U (Figure Nos. 2 and 3) located approximately 0.86 miles away, any drawdown as a result of pumping from Water Right No. 7528-3 in the seven years since it was issued is not distinguishable from the historical water

level fluctuations at these wells. Therefore, the increased drawdown associated with the irrigation of an additional 119 acres is not expected to be significant.

In regard to the localized areas where this aquifer is under confined conditions, the Water Management Board has promulgated rules that allow water to be placed to maximum beneficial use without the necessity of maintaining artesian head pressure for domestic use. The Board has defined an adversely impacted domestic well as "a well in which the pump intake was set at least 20 feet below the top of the aquifer at the time of construction or, if the aquifer is less than 20 feet thick, is as near to the bottom of the aquifer as is practical and the water level of the aquifer has declined to a level that the pump will no longer deliver sufficient water for the well owner's needs." In the case of Water Permit Application No. 2313-2 for the Coca-Cola Bottling Company of the Black Hills the Water Management Board adopted findings that noted that if the increased costs or decreased production as a result of the impacts of legitimate users on artesian head pressure could be considered an adverse impact it would conflict with SDCL 46-1-4 (Water Rights, 1995). SDCL 46-1-4 requires the water resources of the state be put to beneficial use to the maximum extent of which they are capable (Water Rights, 1995). However, since available data suggests the aquifer could be under confined conditions in the area of this well, but the confined area is likely of limited extent, drawdown as a result of pumping is not expected to adversely impact adequate wells in the area. Ultimately, given the above discussion nearby adequate wells are not expected to be unlawfully impaired by this application, if approved.

The Big Sioux: North Deer Creek aquifer is a relatively thin aquifer with a limited amount of water in storage. While long term average annual withdrawals would not exceed average annual recharge to the aquifer, short term conditions may occur when withdrawals exceed recharge. When this occurs, water will be removed from storage, consequently reducing the saturated thickness of the aquifer. If this occurs for an extended period of time such that the saturated thickness is reduced to the extent that the water rights/permits can no longer pump at their developed or "historically established" rates, this may be considered an adverse impact. If this occurred, the water source would need to be managed to mitigate the potential adverse impact as much as possible to prevent any unlawful impairment.

Conclusions

1. Water Permit Application No. 8495-3 proposes to appropriate water for the irrigation of 119 additional acres in the SE $\frac{1}{4}$ Section 18-T111N-R50W from one existing well completed into the Big Sioux: North Deer Creek aquifer authorized by Water Right No. 7528-3. Water Right No. 7528-3 authorizes 1.75 cubic feet of water per second (cfs) from one well completed into the Big Sioux: North Deer Creek aquifer located in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 17 for the irrigation of 122.3 acres.
2. Water Permit Application No. 8495-3, if approved, and Water Right No. 7528-3 combined will authorize a total maximum diversion rate of 1.75 cfs for irrigation of 241.3 acres.

3. Based on the hydrologic budget and observation well data, there is a reasonable probability that water is available in the aquifer to meet the water use proposed by this application.
4. There is a reasonable probability that this application will not unlawfully impair existing water rights or domestic users with adequate wells.


Whitney Kilts

SDDANR-Water Rights Program

References

- Hamilton, L. 1989. Water Resources of Brookings and Kingsbury Counties, South Dakota. Water-Resources Investigations Report 88-4185. USGS, Huron, 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.
- Hedges, L.S., Allen, J. and Holly, D.E. 1985. Evaluation of Ground-Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota, and Iowa. Task 7: Ground-Water Recharge. U.S. Army Corps of Engineers Contract DACW 45-80-C-0185.
- Koch, N. C. 1980. Appraisal of the Water Resources of the Big Sioux Aquifer, Brookings, Deuel and Hamlin Counties, South Dakota. USGS, Huron, SD.
- Schulz, L. D. 2004. First Occurrence of Aquifer Materials in Brookings County, South Dakota. Aquifer Materials Map 19. South Dakota Geological Survey Program. Vermillion, SD.
- SDGS. 2021. South Dakota Geological Survey Lithologic Logs Database. Accessed April 2021. <<http://cf.sddenr.net/lithdb/>>.
- Water Rights. 1980-2020a. "1979-2019 Irrigation Summaries by Aquifer": SD DANR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 1980-2020b. 1979-2019 Irrigation Questionnaire: SD DANR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2021a. Observation Well Files, SD DANR-Water Rights Program, Joe Foss Building, Pierre, South Dakota.
- Water Rights. 2021b. Water Right/Permit Files. SD DANR-Water Rights Program, Joe Foss Building, Pierre, South Dakota.

Report on Water Permit Application No. 8495-3

Water Rights. 2021c. Well Completion Reports. SD DANR-Water Rights Program, Joe Foss Building, Pierre, South Dakota.

Affidavit of Publication

State of South Dakota

SS

County of Brookings

Katherine Foiles of said county, first duly sworn, on oath, says: That she is the office clerk of THE BROOKINGS REGISTER, a daily newspaper, printed and published in the City of Brookings, in said County of Brookings, and State of South Dakota; that she has full and personal knowledge of the facts herein stated; that said newspaper is a legal newspaper and has a bona fide circulation of at least two hundred copies of each issue daily; that said newspaper has been published within the said County of Brookings and State of South Dakota, for more than one year prior to the first publication of Exhibit "A," hereto attached and herein mentioned, and was and is printed that the

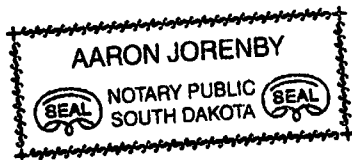
Leg# 14357 Application 8495-3, J. VandeWeerd

same was published, is hereto attached marked Exhibit said newspaper for _____ 1 times, to-wit:

May 12, 2021

said Exhibit "A" inures to the sole benefit for the publishers 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 whomsoever; that the fees charged for the publication thereof are:

Thirty-Two Dollars and Twenty-Five Cents \$32.25



Kmf028

13 day of

May

2021

Notary Public in and for the County of Brookings, South Dakota.
My Commission expires February 22, 2026

Exhibit "A"

**Legal 14357 1X
5/12**

**NOTICE OF
APPLICATION
NO. 8495-3 TO
APPROPRIATE WATER**

Notice is given that Justin VandeWeerd, 46659 205th St., Bruce SD 57220 has filed an application for a water permit to irrigate 119 additional acres. Water Right No. 7528-3 authorizes 1.75 cubic feet of water per second (cfs) from one well completed into the Big Sioux:North Deer Creek Aquifer (75 feet deep) located in the SW 1/4 SW 1/4 Section 17 for irrigation of 122.3 acres located in the SW 1/4 Section 17; all in T111N-R50W. This application proposes to irrigate an additional 119 acres located in the SE 1/4 Section 18-T111N-R50W from the existing well. This application, if approved, and Water Right No. 7528-3 will authorize a total of 1.75 cfs for irrigation of 241.3 acres. This site is located approximately 1 mile southeast of Bruce SD. Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8495-3 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 Ron Duvall 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 May 24, 2021.

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. Published 1X at the total approximate cost of \$32.25.

Schlaak, Karen

From: Schlaak, Karen
Sent: Tuesday, May 4, 2021 8:50 AM
To: registerclassifieds@brookingsregister.com
Subject: 8495-3, Justin VandeWeerd
Attachments: 8495-3public.short.docx; FORM8.FRM.doc

Attached is a notice to be published on May 12, 2021.

Justin VandeWeerd, 46659 205th St, Bruce SD 57220 (605 690-4556) 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

DANR - Water Rights Program

(605) 773-3352

Website: <https://danr.sd.gov>





**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

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

May 4, 2021

Justin VandeWeerd
46659 205th St
Bruce SD 57220

Dear Mr. VandeWeerd:

Water Permit Application No. 8495-3 for irrigation use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Brookings Register printed at Brookings SD (Ph # 605 692-6271). 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,

Karen Schlaak

Karen Schlaak
Water Rights Program
(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. 8495-3 to Appropriate Water

Notice is given that Justin VandeWeerd, 46659 205th St., Bruce SD 57220 has filed an application for a water permit to irrigate 119 additional acres. Water Right No. 7528-3 authorizes 1.75 cubic feet of water per second (cfs) from one well completed into the Big Sioux:North Deer Creek Aquifer (75 feet deep) located in the SW 1/4 SW 1/4 Section 17 for irrigation of 122.3 acres located in the SW 1/4 Section 17; all in T111N-R50W. This application proposes to irrigate an additional 119 acres located in the SE 1/4 Section 18-T111N-R50W from the existing well. This application, if approved, and Water Right No. 7528-3 will authorize a total of 1.75 cfs for irrigation of 241.3 acres. This site is located approximately 1 mile southeast of Bruce SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8495-3 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 Ron Duvall 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 May 24, 2021.

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.

Published once at the total approximate cost of_



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

JUN 17 2021

Justin VandeWeerd
46659 205th St
Bruce SD 57220

Dear Mr. VandeWeerd:

Enclosed is Water Permit No. 8495-3 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,

Eric Gronlund, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

8495-3

RECEIVED

JUN 28 2021

WATER RIGHTS
PROGRAM**NOTICE OF COMPLETION OF WORKS AND
APPLICATION OF WATER TO BENEFICIAL USE**Date 6-23-2021

TO: Water Rights Program, DANR
523 E. Capitol
Pierre, SD 57501-3181

FROM: Justin Vande Weerd
(name)
46659 205st
(address)
Bruce SD 57220 1-605-690-4556
(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. 8495-3 states that the water use system is to be constructed by
5-24-2021, and water is to be put to beneficial use by 5-24-2030.
(date) (date)

The water use system was completed on 6-21-2021.
(date)

Applying the water to beneficial use was completed on 6-21-2021.
(date)

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

Justin Vande Weerd
(signature)





**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

June 28, 2021

8495-3

Justin VandeWeerd
46659 205th St
Bruce SD 57220

Dear Mr. VandeWeerd:

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 your irrigation system as authorized under Water Permit No. 8495-3.

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,

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

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 8495-3

I have this day, August 27, 2021, made a thorough examination of the water use system constructed by Justin VandeWeerd, 46659 205th St, Bruce, SD 57220 of Permit No. 8495-3, bearing the priority of February 18, 2021 authorizing the diversion of 1.75 cu. ft. per second from one (1) well of the Big Sioux: North Deer Creek Aquifer for irrigation purposes, in Brookings County.

A. Works used to divert the water: (Information taken from Permit 7528-3 for well/pump information)

- 1) Well Drilling Firm – unknown
- 2) No. of wells – one
- 3) Depth of well – ~75 feet
- 4) Well log is not available
- 5) Casing & screen information – unknown
- 6) Pump: Make – Western Land Roller, Model – 10 CM with ½ BH Impeller, Size – 10 inch, Capacity – 800 gpm
- 7) Motor: Make Cummins Diesel, Model 5.9 liter, Horsepower rating – 150 hp

B. Works used to transport water to place of use: Buried main line pipe from Section 17, T111N R50W

C. Works used to apply water to beneficial use:

Center pivot (Section 18):

- 1) Make Valley
- 2) Overall length 1250 feet
- 3) Number of towers 7
- 4) End gun Y
- 5) Capacity 800 GPM

Center pivot (Section 17):

- 1) Make Valley
- 2) Overall length 1298 feet
- 3) Number of towers 10
- 4) End gun Y
- 5) Capacity 800 GPM

Chemigation Equipment: Last used in 2014. Has 1,500 gallon poly tank on site.

D. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by Y
- 2) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period Y **This is the first year of irrigation for land in Section 18, so an Irrigation Questionnaire report is not due until later.**
- 3) Exceptions to compliance are: None

E. Condition and Location:

1. The system is in **new** condition with the point of diversion located as follows: **From the SW corner of Section 17 T111N R50W, 920 ft N & 705 ft E, Lat 44.41567 Long -96.86544 (SW ¼ SW ¼ Sec 17)**
2. The works are capable of diverting and conveying to the place of use **1.78** cu. ft. per second of water which is to be used for **irrigation**. Water has been put to beneficial use to the maximum extent as follows:

Section 18, T111N R50W (from 8495-3)

NW ¼ SE ¼ – 33 acres

NE ¼ SE ¼ – 33 acres

SE ¼ SE ¼ – 33 acres

SW ¼ SE ¼ – 20 acres

Subtotal 119 acres**Section 17, T111N, R50W (from 7528-3)**

NE ¼ SW ¼ - 34.0 acres

NW ¼ SW ¼ - 33.4 acres

SW ¼ SW ¼ - 23.1 acres

SE ¼ SW ¼ - 31.8 acres

Subtotal 122.3 acres

comprising a total of **241.3** acres of land and the license should be issued for **1.75** cfs

3. All structures, wells and lands on map **Y**

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

The irrigated acreage (in Section 18) was determined with the aid of FSA imagery and ArcMAP software.

The center pivot is being supplied by a well in an adjoining quarter (Section 17) that services two (2) pivots.

This is the first year of irrigation for land in Section 18, so an Irrigation Questionnaire report is not due until later.

The address and telephone number contained in the inspection materials are current.



Darrell W DeBoer

Water Rights Inspector

DANR, Water Rights Program

Date report completed: **September 20, 2021**

Note: Since both pivots are serviced by one well, Water Right No. 7528-3 will be incorporated into 8495-3.

- A priority date of November 15, 2012 established under 7528-3 will be retained for the land in Section 17
- A priority date of February 18, 2021 established under 8495-3 will be retained for the land in Section 18

Genny

Diversion Point Locations

From the SW corner of
Sec 17 T111N-R50W
920 ft N & 705 ft E
Lat 44.41567
Long -96.86544

Irrigated Land

Sec 18 T111N-R50W
NW1/4 SE1/4 - 33 ac
NE1/4 SE1/4 - 33 ac
SE1/4 SE1/4 - 33 ac
SW1/4 SE1/4 - 20 ac

Sec 17 T111N-R50W
NW1/4 SW1/4 - 33.4 ac
NE1/4 SW1/4 - 34 ac
SW1/4 SW1/4 - 23.1 ac
SE1/4 SW1/4 - 31.8 ac



0 550 1,100 2,200 3,300 4,400 Feet



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

SEP 27 2021

7528-3
8495-3

Justin Vande Weerd
46659 205th St
Bruce SD 57220

Dear Mr. Vande Weerd:

Enclosed is Water License No. 8495-3. This is the final water right document completing your process of obtaining a Water Right. Included with your license is a map prepared by the staff engineer who conducted the field investigation.

For your information SDCL 46-6-27 requires that if in the future, the owner of an existing well, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

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

Sincerely,

Eric Gronlund, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

Note: Upon licensing, the applicable portions of Water Right No. 7528-3 were incorporated into Water License No. 8495-3.

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 8495-3

(1) Justin Vande Weerd, 46659 205th St., Bruce SD 57220 made Application No. 8495-3, February 18, 2021 for a water permit to add acreage to the water use system authorized under Water Right No. 7528-3. Permit No. 8495-3 and Water Right No. 7528-3 authorize a total of 1.75 cubic feet of water per second (cfs) from ground water, one existing well (Big Sioux North Deer Creek Aquifer), Brookings County, South Dakota. Permit No. 8495-3, with a priority date of February 18, 2021 was approved May 24, 2021 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before May 24, 2026 and for the application to beneficial use of said water on or before May 24, 2030.

The Permit holder submitted a "Notice of Completion of Works and Application of Water to Beneficial Use" for Water Permit No. 8495-3 on June 28, 2021. The "Notice" indicated the water use system was completed and the water placed to beneficial use on June 21, 2021.

Water Right No. 7528-3, with a priority date of November 15, 2012, authorizes diversion of 1.75 cfs from one well to irrigate 122.3 acres in the SW ¼ Section 17, T111N, R50W. Water Permit No. 8495-3 added a pivot in the SE ¼ Section 18, T111N, R50W to be irrigated from the existing well.

The applicable portions of Water Right No. 7528-3 are incorporated into this Water License No. 8495-3. Priority dates as applied to the land irrigated are described in (3) of this license.

(2) It is certified that the permit holder has complied with the provisions of South Dakota State Law relating to completion of the water supply system and is entitled to divert 1.75 cubic feet of water per second for beneficial use. The location of the diversion point is:

- 920'N and 705'E the SW corner of Section 17, T111N R50W (SW ¼ SW ¼ Sec 17)
Latitude 44.41567 Longitude -96.86544

(3) The permit holder has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use to irrigate the following land:

Section 18, T111N, R50W		Section 17, T111N, R50W	
NW ¼ SE ¼	33.0 acres	NE ¼ SW ¼	34.0 acres
NE ¼ SE ¼	33.0 acres	NW ¼ SW ¼	33.4 acres
SE ¼ SE ¼	33.0 acres	SW ¼ SW ¼	23.1 acres
SW ¼ SE ¼	20.0 acres	SE ¼ SW ¼	31.8 acres

Total 241.3 acres

- A priority date **February 18, 2021 (established under No. 8495-3)** is retained for the **SE ¼ Section 18, T111N, R50W.**
- A priority date **November 15, 2012 (established under No. 7528-3)** is retained for the **SW ¼ Section 17, T111N, R50W**

continued

(4) Pursuant to South Dakota Water Law 46-5-30.1 Justin Vande Weerd, 46659 205th St., Bruce SD 57220 the holder and/or owner of Incorporated Water Right No. 8495-3 is issued a license to appropriate water, the right to use 1.75 cubic feet of water per second from ground water, one well (Big Sioux North Deer Creek Aquifer) with priority dates of November 15, 2012 and February 18, 2021 from the location specified in (2) of this license for irrigation purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 8495-3 and subject to the following qualifications:

- The well approved under this water right will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this water right shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
- This Water Right is approved subject to the irrigation water use questionnaire being submitted each year.



Eric Gronlund, Chief Engineer
Water Rights Program
Department of Agriculture and Natural Resources

SEP 27 2021

date

